



**CHILDREN'S EDUCATION SOCIETY (Regd.)
THE OXFORD COLLEGE OF ENGINEERING**

(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi.

Approved by A.I.C.T.E. New Delhi.

Recognised by UGC Under Section 2(f)

Bommanahalli, Hosur Road, Bangalore - 560 068.

Ph: 080-61754601/602, Fax: 080 - 25730551

E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

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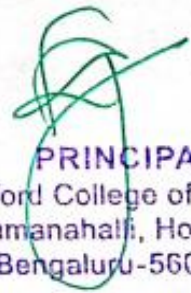
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a.	MBA	709 -714
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Summary

To integrate cross-cutting issues such as gender, environment and sustainability, human values, and professional ethics, The oxford college of engineering, Bangalore has incorporated various types of courses into the curriculum, some of which aim to enhance professional competencies while others aim to instil general competencies such as social ethical values, human values, environmental sensitivity, and so on, resulting in the holistic development of students.

Professional Ethics and Human Values

Ethics in education aids in the management of the educational system and ensures that these habits positively contribute to human well-being. To help students understand moral values and professional ethics, the institution has worked to develop value-based education for students, with the goal of improving values for a better citizen. Various courses are taught to students in all engineering programmes for them to imbibe and practise human values and professional ethics. Concerning social development activities such as organising blood donation camps, health check-up camps, hygiene and health workshops, visit to old age home, environmental awareness camps, river cleanliness drives, workshops on social issues, public health, gender issues, and so on. The activities of the campus are overseen by the faculty in charge.

Gender Sensitivity

Gender equality protects women and girls from violence. It is necessary for economic prosperity. Societies that treat men and women equally are safer and healthier. The college has a Women Grievance Cell and a Grievance Redressal Cell to provide counselling to students, promote gender equity among students, and address issues concerning the safety and security of female students, staff, and faculty. CCTV and high-level security are in place on the college campus. There are separate Boys and Girls hostels (on-campus) to ensure that all students are safe. They have addressed such themes as love, responsibility, respect, relationships, perseverance, self-discipline, courage, honesty, and kindness. In order to sensitize students about the gender equality issues, a number of activities such as International Literary Day Observance, World Mental Health Day Observance, Decomposition Awareness Program, World Aids Day, National Youths Day, Menstrual Hygiene, Awareness Program for "Yoga and Meditation For Increasing" and field excursions were organized for students of all.

Environment and Sustainability

Environmental sustainability is interacting with the environment responsibly in order to avoid resource depletion or degradation and to allow for long-term environmental quality. A variety of activities, such as seminars, workshops, guest lectures, industry visits, and field excursions, were organised for students from all programmes to raise awareness of environmental and sustainability issues. Environment Day, Covid-19 Vaccination Awareness Campaign, Road Safety Awareness Campaign, Save Water-Save Life Campaign Sound Pollution Awareness, Traffic Awareness, Clean India Campaign, Plastic Awareness Campaign, Swatch Bharat – Go Green Initiative, Traffic Awareness Program, Government Acts and Schemes Awareness Plastic Materials Are Dangerous, Awareness of Energy Conservation Traffic Awareness Campaign, Swachh Bharat Abhiyan Save Water, Save the Environment, Covid-19 Awareness Programme Every year, Earth Day and Water Day are celebrated, where students actively participate. Workshops and seminars on various aspects of environmental sustainability are organised periodically.



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List and Description of courses

S.No	Year /Semester	Name of the Program	Name of the Course
1	1st Year / 1st Semester	Department of Computer Science & Engineering	Environmental Studies(15CIV18)
2	1st Year / 2nd Semester	Department of Computer Science & Engineering	Constitution of India, Professional Ethics and Human Rights (15CPH28)
3	2nd Year / 1st Semester	Department of Computer Science & Engineering	Constitution of India, Professional Ethics and Cyber Law (18CPC39)
4	3rd Year / 1st Semester	Department of Computer Science & Engineering	Environmental Studies(18CIV59)
5	1st Year / 1st Semester	Department of Information Science & Engineering	Environmental Studies(15CIV18)
6	1st Year / 2nd Semester	Department of Information Science & Engineering	Constitution of India, Professional Ethics and Human Rights (15CPH28)
7	2nd Year/3rd sem	Department of Information Science & Engineering	Kannada/Constitution of India, Professional Ethics and Human Rights(17KL/CPH39/49)
8	2nd Year/4th sem	Department of Information Science & Engineering	Kannada/Constitution of India, Professional Ethics and Human Rights(17KL/CPH39/49)
9	2nd Year/3rd Sem	Department of Information Science & Engineering	Constitution of India, Professional Ethics and Cyber Law(18CPC39)
10	2nd Year/4th Sem	Department of Information Science & Engineering	Constitution of India, Professional Ethics and Cyber Law(18CPC39)
11	3rd/Vth Sem	Department of Information Science & Engineering	Environmental Studies(18CIV59)
12	1st Year / 1st Semester	Department of Electronics & Communication Engineering	Environmental Studies(15CIV18)
13	1st Year / 2nd Semester	Department of Electronics & Communication Engineering	Constitution of India, Professional Ethics and Human Rights (15CPH28)
14	2nd Year/3rd Semester/4th Semester	Department of Electronics & Communication Engineering	Vyavaharika Kannada (Kannada for communication-18KVK39/49)
15	2nd Year/3rd Semester/4th Semester	Department of Electronics & Communication Engineering	Kannada/Constitution of India, Professional Ethics and Human Rights
16	3rd Year/5th Semester	Department of Electronics & Communication Engineering	Management and Entrepreneurship Development
17	1st Year / 1st Semester	Department of Electrical & Electronics Engineering	Environmental Studies(15CIV18)
18	1st Year / 2nd Semester	Department of Electrical & Electronics Engineering	Constitution of India, Professional Ethics and Human Rights (15CPH28)
19	2nd Year / 4th Semester	Department of Electrical & Electronics Engineering	Vyavaharika Kannada (Kannada for communication)/Aadalitha Kannada (Kannada for Administration)



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20	3rd year/5th Semester	Department of Electrical & Electronics Engineering	Management and Entrepreneurship
21	3rd year/5th Semester	Department of Electrical & Electronics Engineering	Renewable Energy Systems (17EE563)
22	3rd year/6th Semester	Department of Electrical & Electronics Engineering	SOLAR AND WIND ENERGY
23	4th year/7th Semester	Department of Electrical & Electronics Engineering	Intellectual Property Rights (10EE846)
24	4th year/8th Semester	Department of Electrical & Electronics Engineering	Renewable energy sources (10EE836)
25	1st Year / 1st Semester	Department of Mechanical Engineering	Environmental Studies(15CIV18)
26	1st Year / 2nd Semester	Department of Mechanical Engineering	Constitution of India, Professional Ethics and Human Rights (15CPH28)
27	2nd Year / 3rd Semester	Department of Mechanical Engineering	Constitution of India, Professional Ethics and Cyber Law
28	2nd Year / 3rd Semester	Department of Mechanical Engineering	Vyavaharika Kannada (Kannada for communication)/Aadalitha Kannada (Kannada for Administration)
29	3rd Year / 5th Semester	Department of Mechanical Engineering	Management and Engineering Economics
30	3rd Year / 5th Semester	Department of Mechanical Engineering	Human Resource Management
31	3rd Year / 5th Semester	Department of Mechanical Engineering	Energy and Environment
32	3rd Year / 5th Semester	Department of Mechanical Engineering	Project management
33	1st Year / 1st Semester	Department of Biotechnology	Environmental Studies(15CIV18)
34	1st Year / 2nd Semester	Department of Biotechnology	Constitution of India, Professional Ethics and Human Rights (15CPH28)
35	2nd Year / 3rd Semester	Department of Biotechnology	Kannada/Constitution of India, Professional Ethics and Human Rights(17KL/CPH39/49)
36	3rd year/5th Semester	Department of Biotechnology	Biotechnology for sustainable environment(15BT563)
37	3rd year/6th Semester	Department of Biotechnology	Bio-business and entrepreneurship(15BT61)
38	4th year/8th Semester	Department of Biotechnology	Project management & IPR(10BT71)
39	4th year/8th Semester	Department of Biotechnology	Bioethics & biosafety(10BT82)
40	4th year/8th Semester	Department of Biotechnology	Environmental biotechnology(15BT833)
41	1st Year / 1st Semester	Department of Civil Engineering	Environmental Studies(15CIV18)



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42	1st Year / 1st Semester	Department of Civil Engineering	Constitution of India, Professional Ethics and Human Rights (15CPH28)
43	2nd year/1st semester	Department of Civil Engineering	Constitution of India, Professional Ethics and Human Rights (18CPC39)
44	2nd year/2nd semester	Department of Civil Engineering	Constitution of India, Professional Ethics and Human Rights (18CPC39/49)
45	3rd year/1st semester	Department of Civil Engineering	Environmental Studies(18CIV59)
46	3rd year/2nd semester	Department of Civil Engineering	Conservation of Natural Resources(18CV656)
47	4th year/1st semester	Department of Civil Engineering	Environmental Project and Management (18CV753)
48	1st Year / 1st Semester	Department of Automobile Engineering	Environmental Studies(15CIV18)
49	1st Year / 2nd Semester	Department of Automobile Engineering	Constitution of India, Professional Ethics and Human Rights (15CPH28)
50	2nd Year / 3rd Semester	Department of Automobile Engineering	Aadalitha Kannada(18KAK28/39/49)
51	2nd Year / 3rd Semester	Department of Automobile Engineering	Constitution of India, professional ethics and cyber law (CPC)(18CPC39/49)
52	2nd Year / 4th Semester	Department of Automobile Engineering	Vyavaharika Kannada(18KVK28/39/49)
53	2nd Year / 4th Semester	Department of Automobile Engineering	Kannada/Constitution of India, Professional Ethics and Human Rights(17KL/CPH39/49)
54	3rd year/5th Semester	Department of Automobile Engineering	Management and entrepreneurship(18AU51)
55	3rd year/5th Semester	Department of Automobile Engineering	Environmental studies(18CIV59)
56	1st Year / 1st Semester	Department of Mechatronics	Environmental Studies(15CIV18)
57	1st Year / 2nd Semester	Department of Mechatronics	Constitution of India, Professional Ethics and Human Rights (15CPH28)
58	2nd Year / 3rd Semester	Department of Mechatronics	Constitution of India, Professional Ethics and Cyber Law
59	2nd Year / 3rd Semester	Department of Mechatronics	Vyavaharika Kannada (Kannada for communication)/Aadalitha Kannada (Kannada for Administration)
60	1st Year / 1st Semester	Department of Master of Business Administration	MANAGEMENT & ORGANIZATIONAL BEHAVIOUR (16MBA11/18MBA11)
61	1st Year / 2nd Semester	Department of Master of Business Administration	BUSINESS LAW AND POLICY (16MBA24)
62	2nd Year / 2nd Semester	Department of Master of Business Administration	Legal and Business Environment (18MBA24)



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63	1st Year / 2nd Semester	Department of Master of Business Administration	HUMAN RESOURCE MANAGEMENT (16MBA21)
64	2nd Year / 3rd Semester	Department of Master of Business Administration	CONFLICT AND NEGOTIATION MANAGEMENT (16MBA HR306)
65	2nd Year / 4th Semester	Department of Master of Business Administration	Sales Management (18MBA MM401)
66	2nd Year / 4th Semester	Department of Master of Business Administration	Organisational change and development (20MBAHR404)
67	1st Year / 1st Semester	Master of Computer Applications	Basics of Programming & CO (Bridge course-20MCA19-BC)for non Computer science Background
68	2nd Year / 3rd Semester	Master of Computer Applications	Intellectual Property Rights(16MCA351)

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INSTITUTIONAL CURRICULUM COMMITTEE MEETING 2016-2017 –(ODD)

The reconstitution of the Institutional curriculum committee was made and the meeting was held on 14/07/2016 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION	COMMITTEE DESIGNATION
1.	Dr R V Praveena Gowda	Principal	Chair Person
2.	Dr R J Anandhi	Vice Principal & HOD-CSE	Member Coordinator
3.	Dr D Jayaramaiah	HOD-ISE	Member
4.	Dr Dattathreya	HOD-ECE	Member
5.	Prof Jayakumar N	HOD-EEE (In charge)	Member
6.	Dr G S Bhatt	HOD-ME	Member
7.	Dr Kusum Paul	HOD-BT	Member
8.	Dr Amarnath K	HOD-Civil	Member
9.	Ms. Neeta	HOD-MTE (In charge)	Member
10.	Dr Raju B R	HOD-AUTO	Member
11.	Prof N Chiranthana	HOD-CTM	Member
12.	Dr Mallikarjuna K	HOD-Maths	Member
13.	Dr Vijayakumaran Nair	HOD-Physics	Member
14.	Dr Surekha M	HOD-Chemistry	Member
15.	Dr James Thomas	HOD-MBA	Member
16.	Dr M S Shashidhara	HOD-MCA	Member
17.	Prof S Sathish	HOD- B-Arch	Member

Agenda:

- Implementation of VTU prescribed syllabus with the continuation of the CBCS system
- Discussion on cross cutting issues for relevant subjects implementing in the present semester
- Tentative schedule for the Field Work/ Industrial visit, Project Work
- Certified Program for the pre-final / final year students
- Preparation of TIME TABLE for ODD semester 2016-17
 - a. B.E / B.Arch (UG) Time Table



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b. PG - Time Table

- Faculties to participate in BOS / Academic Council and question paper designing - evaluation and assessment.
- Implementation of Enrichment Courses.
- Implementation of Interdisciplinary/ Interdepartmental courses.
- Implementation of Value-added courses.
- Implementation of Internships
- Implementation of action on Feedback analysis report.

Summary: Minutes

The committee is composed of Principal, Dean Academics and Head of all departments. The above-mentioned agenda was discussed and resolutions were formed. These were circulated to all the concerned departments and were recommended to be inculcated in their respective department curriculum meeting and implementation of the same.

Resolutions:

- It has been informed to all HOD's to implement the latest prescribed syllabus by VTU in the respective department.
- All the HOD's are required to submit a time table for theory, practical for the odd semester 2016-17.
- HOD's should ensure and make their maximum efforts to make their faculties to participate in BOS and academic council members in affiliated university as well as outside universities
- It is decided to implement 2 enrichment courses for each department and an action plan to be submitted one week after this meeting.
- It is decided to implement 2 value added courses for each department and an action plan to be submitted one week after this meeting.
- It is decided to implement 2 interdisciplinary courses for each department and an action plan to be submitted one week after this meeting.
- It is decided to implement 1 field visit for each department and an action plan to be submitted one week after this meeting.


PRINCIPAL
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bengaluru-560 068



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THE OXFORD COLLEGE OF ENGINEERING

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INSTITUTIONAL CURRICULUM COMMITTEE MEETING 2016-2017 –(EVEN)

The reconstitution of the Institutional curriculum committee was made and the meeting was held on 01/02/2017 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION	COMMITTEE DESIGNATION
1.	Dr R V Praveena Gowda	Principal	Chair Person
2.	Dr R J Anandhi	Vice Principal & HOD-CSE	Member Coordinator
3.	Dr D Jayaramaiah	HOD-ISE	Member
4.	Dr Manju Devi	HOD-ECE	Member
5.	Prof Jayakumar N	HOD-EEE (In charge)	Member
6.	Dr G S Bhatt	HOD-ME	Member
7.	Dr Kusum Paul	HOD-BT	Member
8.	Dr Amarnath K	HOD-Civil	Member
9.	Ms. Nandini D B	HOD-MTE (In charge)	Member
10.	Dr Raju B R	HOD-AUTO	Member
11.	Mr Shivakumar M	HOD-CTM (In charge)	Member
12.	Dr Mallikarjuna K	HOD-Maths	Member
13.	Dr Snigdha Gupta	HOD-Physics (In charge)	Member
14.	Dr Surekha M	HOD-Chemistry	Member
15.	Dr Sarit Kumar	Director-MBA	Member
16.	Dr M S Shashidhara	HOD-MCA	Member
17.	Prof Benny Kurian	HOD- B-Arch (In charge)	Member

Agenda: Minutes

- To review that prescribed syllabus is being followed.
- To review implementation of the time table for 2016-17 EVEN.
- To review the efforts made by the faculties in participating in BoS/ Academic council and question paper designing – evaluation and assessment
- To review on enrichment courses/Value added courses, Field visits/Industry visit and Internship/Community posting conducted and report submitted.



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Summary: Minutes

The committee is composed of Principal, Dean Academics and Head of all departments. The above mentioned agenda was discussed and resolutions were formed. These were circulated to all the concerned departments and were recommended to be inculcated in their respective department curriculum meeting and implementation of the same.

Resolution:

- The approved syllabus is followed.
- Principal advised HODs to allocate theory classes in the morning and labs in the afternoon.
- Principal advised all faculty to have their course file ready and checked by respective HODs before 6th Feb 2017
- Lesson plan shall be prepared for 16 weeks and softcopy to be submitted.
- HODs were advised to prepare academic plan and send hardcopy
- One enrichment course and one value added course has been done and the report is satisfactory.


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Departmental Committee Meeting – (CSE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 –(ODD)

The department curriculum committee was made and the meeting was held on 14/07/2016 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr.AnandhiR.J	Professor & HOD
2	Dr. Nirmala	Professor
3	Ms. Shobha T	Assot. Professor
4	Mr. Senthil Kumar	Assot. Professor
5	Ms. Seema Patil	Assot. Professor
6	Ms. Gousia T	Assot. Professor
7	Ms. Sowmya H K	Assot. Professor
8	Ms. Shilpa Kamman	Asst. Professor
9	Ms. Koyel Sinha Chowdhury	Asst. Professor
10	Ms. Chandanita Thakur	Asst. Professor
11	Ms. Maragatham	Asst. Professor
12	Ms. Florance G	Asst. Professor
13	Mr. Naveen H S	Asst. Professor
14	Ms. Jesy Janet Kumari	Asst. Professor
15	Ms. AnarghaRemesh	Asst. Professor
16	Ms. Fenita F	Asst. Professor
17	Ms. Moutushi Kar	Asst. Professor
18	Ms. Neeta Ann Jacob	Asst. Professor
19	Ms. Shirisha	Asst. Professor
20	Ms. Lavanya S	Asst. Professor
21	Ms. Beena K	Asst. Professor
22	Ms. Amrutha	Asst. Professor
23	Ms. Bindu Madavi	Asst. Professor



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24	Ms. Manasa	Asst. Professor
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Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. R J Anandhi welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans for Field Visit / Industrial Visit.
7. Planning for the Final Year's Project Works / Internships.
8. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2016 – 2017 odd semester

Sl. No.	Name of the department	Name of the Certificate Program
1	CSE	C (Spoken Tutorial)
2		CPP (Spoken Tutorial)
3		PHP & MySQL (Spoken Tutorial)
4		JAVA (Spoken Tutorial)



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5		LINUX (Spoken Tutorial)
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The following value-added programs will be conducted during 2016 – 2017 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	CSE	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


HOD/CSE

HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
BENGALURU - 560 068



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Departmental Committee Meeting – (CSE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 –(EVEN)

The department curriculum committee was made and the meeting was held on 01/02/2017 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr.AnandhiR.J	Professor & HOD
2	Dr. Nirmala	Professor
3	Ms. Shobha T	Assot. Professor
4	Mr. Senthil Kumar	Assot. Professor
5	Ms. Seema Patil	Assot. Professor
6	Ms. Gousia T	Assot. Professor
7	Ms. Sowmya H K	Assot. Professor
8	Ms. Shilpa Kamman	Asst. Professor
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18	Ms. Neeta Ann Jacob	Asst. Professor
19	Ms. Shirisha	Asst. Professor
20	Ms. Lavanya S	Asst. Professor
21	Ms. Beena K	Asst. Professor
22	Ms. Amrutha	Asst. Professor
23	Ms. Bindu Madavi	Asst. Professor



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24	Ms. Manasa	Asst. Professor
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Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. R J Anandhi, welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2016-17 even semester and mentioning the activities planned in the department.
3. Syllabus copy prescribed by the university circulated to the students and faculty.
4. Department announced to conduct the regular seminars to the students.
5. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
6. Department plans for Field Visit / Industrial Visit.
7. Planning for the Final Year's Project Works / Internships.
8. Mentor mentee list – discussion
9. The following certificate programs will be conducted during 2016 – 2017 EVEN semester

Sl. No.	Name of the department	Name of the Certificate Program
1	CSE	C (Spoken Tutorial)
2		CPP (Spoken Tutorial)
3		PHP & MySQL (Spoken Tutorial)
4		JAVA (Spoken Tutorial)
5		Android App Development



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6

JAVA

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


HOD/CSE

HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
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Departmental Committee Meeting – Information Science and Engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 – (EVEN)

The department curriculum committee was made and the meeting was held on 13/01/2016 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr.Jayaramaiah. D	HOD
2.	Dr.R.Kanagavalli	Assot. Prof.
3.	Mrs.J.Karthiyaini	Asst. Prof.
4.	Ms.Nalinakshi B G	Asst. Prof.
5.	Ms. Visalini S	Asst. Prof.
6.	Mr.Ram Sankar G	Asst. Prof.
7.	Ms. KalaiSelvi	Asst. Prof.
8.	Ms. Kokila P	Asst. Prof.
9.	Ms.Bindyashree	Asst. Prof.
10.	Mrs.Chempavathy B	Asst. Prof.
11.	Mrs.Sindhuja	Asst. Prof.
12.	Ms. Suganya R	Asst. Prof.
13.	Mr. Channappa Gowda	Asst. Prof.
14.	Ms. InduK.S	Asst. Prof.
15.	Mrs.Prathiba.K.N	Asst. Prof.
16.	Mr. Karthik S L	Asst. Prof.
17.	Mrs.Halaharvi Keerthi	Asst. Prof.



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Agenda:

1. Semester plan
2. Introduction of syllabus based on CBCS scheme
3. Conduction of seminars
4. Plan for Field Visit/ Industrial Visit
5. Plan for the (Final Year's) Project Works / Internships
6. Allotment the assignment topics and tutorial topics
7. Plan for mentoring activities

Summary: Minutes

1. HOD, Dr.Jayaramaiah. D welcomed all the faculty and explained VTU, ODD semester regulations.
2. Semester plan for 2016-17 even semester and mentioning the activities planned in the department.
3. The discussion of the subjects of CBCS selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the (Final Year's) Project Works / Internships (with company names and details).
9. Mentor mentee list – discussion

10. The following certificate programs will be conducted during 2016 – 2017 EVEN semester

Sl. No.	Name of the department	Name of the Certificate Program
1.	Information Science and Engineering	CCNA
2.	Information Science and Engineering	Big data

11. The following value-added programs will be conducted during 2016 – 2017 EVEN semester

Sl. No.	Name of the department	Name of the Value-added programs
2.	Information Science and Engineering	Soft skill training

Resolutions:

1. Faculty members are informed to motivate the students to involve in the Research activities.
2. Toppers from each semester to be motivated to get VTU ranks.
3. Result percentage of forthcoming semester to be improved.

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HOD-ISE



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Departmental Committee Meeting – Information Science and Engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 – (ODD)

The department curriculum committee was made and the meeting was held on 29/07/2015 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr.Jayaramaiah. D	HOD
2.	Dr.R.Kanagavalli	Professor
3.	Mrs.J.Karthiyaini	Professor
4.	Ms.Nalinakshi B G	Professor
5.	Ms. Visalini S	Assot. Prof.
6.	Mr.Ram Sankar G	Assot. Prof.
7.	Ms. KalaiSelvi	Asst. Prof.
8.	Ms. Kokila P	Asst. Prof.
9.	Ms.Bindyashree	Asst. Prof.
10.	Mrs.Chempavathy B	Asst. Prof.
11.	Mrs.Sindhuja	Asst. Prof.
12.	Ms. Suganya R	Asst. Prof.
13.	Mr. Channappa Gowda	Asst. Prof.
14.	Ms. InduK.S	Asst. Prof.
15.	Mrs.Prathiba.K.N	Asst. Prof.
16.	Mr. Karthik S L	Asst. Prof.
17.	Mrs.Halaharvi Keerthi	Asst. Prof.
18.	Mrs. VijayaLaxmiPatil	Asst. Prof.

Agenda:

1. Semester plan



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2. Value-added and certificate programs
3. Conduction of seminars
4. Plan for Field Visit/ Industrial Visit
5. Plan for the (Final Year's) Project Works / Internships
6. Allotment the assignment topics and tutorial topics

Summary: Minutes

1. HOD, Dr.Jayaramaiah. D welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS)
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans for Field Visit/ Industrial Visit.
7. Planning for the (Final Year's) Project Works / Internships (with company names and details).
8. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2016 – 2017 odd semesters

Sl. No.	Name of the department	Name of the Certificate Program
2.	Information Science and Engineering	CCNA
2.	Information Science and Engineering	Big data

The following value-added programs will be conducted during 2016– 2017 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
3.	Information Science and Engineering	Soft skill training



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Resolutions:

1. Faculty members are informed to motivate the students to publish the Research papers in the Reputed Journals.
2. Toppers from each semester to be motivated to get VTU ranks.
3. Result percentage of forthcoming semester to be improved.

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HOD -ISE



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Departmental Committee Meeting -ECE

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 – (ODD)

The Department curriculum committee was made and the meeting was held on 15/07/2016 and the following members were present for the meeting

Sln.	NAME	DESIGNATION
1.	Dr.Dattathreya	HOD&Professor
2.	Dr.Vivek.M	Professor
3.	Dr.Preetasharan	Professor
4.	Mr.N.Jayaraj	AssociateProf
5.	Ms.SajithraVarun	AssociateProf
6.	Mr.Piruthviraj.P	AssociateProf
7.	Mr.N.Sridhar	AssociateProf
8.	Ms.ChrispinJiji	Asst.Professor
9.	Mr.Ramesh.T.M	Asst.Professor
10.	Ms.SowmyaPadukone.G	Asst.Professor
11.	Ms.ReemaSharma	Asst.Professor
12.	Mr.BhargavRamGowd	Asst.Professor
13.	Ms.LayaTojo	Asst.Professor
14.	Ms.Chandrakala.S	Asst.Professor
15..	Ms.Aruna.J	Asst.Professor
16.	Mr.ManjunathSheth	Asst.Professor
17.	Mr.Veeresh.H	Asst.Professor



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18.	Mr.Anand.K.Warad	Asst.Professor
19.	Mr.RichardLincolnPaulraj	Asst.Professor
20..	Ms.SoniyaJames	Asst.Professor
21.	Ms.Lakshmi.R	Asst.Professor
22.	Mr.AravindReddy	Asst.Professor
23.	TejalFarkhande	Asst.Professor
24.	Ashwini.M	Asst.Professor
25.	AnujaHanji	Asst.Professor
26.	Raghavendra.M	Asst.Professor
27.	MttuGeorge	Asst.Professor
28.	Prashanth.N	Asst.Professor
29.	Dhanya	Asst.Professor
30.	JagadeeshwarReddy	Asst.Professor
31.	Sheela.C	Asst.Professor
32.	Dr.Karibasappa	Principal&Professor
33.	Vaibhav	Professor
34.	Sunitha	Asst.Professor
35.	Dr.AnilTiwari	Professor

Agenda:

- (i) Odd Semester Plan for Academics & Co-Curricular Activities



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- (ii) Introduction of CBCS & orientation for Students
- (iii) Arrangement of Seminars ,Field Visits & Industrial Visit to Students Conduction of Project Work, Internship work to Students

Summary:Minutesofmeeting

,Dr.Dattathreya,HOD & Prof welcomed all the faculty and explained VTU, ODD semester regulations.

1. Semester plan for2016-17Odd semester and mentioning the activities planned in the department.

Sl. No.	NameoftheDepartment	CBCS
1.	ECE	2016-17 Scheme

2. The discussion of the subjects of CBCS givenin the above table,selected by the students.
3. As per the VTU regulation guide lines the students of B.E have to select one subject from the MOOCS-I,MOOCS-II & MOOCS-III

Sl.No	NameoftheDepartment	MOOCS –I	MOOCS–II	MOOCS– III
1.	ECE	Nano- Electronics	Operating System	Automotive Electronics

4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit/ Industrial Visit.
8. Planning for the (FinalYear's) Project Works/ Internships (with company names and details).
9. Mentor menteelist–discussion
10. The following certificate programs will be conducted during
2016 – 2017ODD Semester



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Bommanahalli, Hosur Road, Bangalore - 560 068.

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Sl.No.	Name of the department	Name of the Certificate Program
1.	ECE	NCSEM-2017


11. The following value-added programs will be conducted during

2016 – 2017 ODD Semester

Sl. No.	Name of the department	Name of the Certificate Program
1.	ECE	MEGA MIND

Resolutions:

The HOD & Faculties of the Department will do the Resolution that We all will work towards the over all growth of the Department, Students & Organization.


Professor & HOD of E&C Engineering
The Oxford College of Engineering
Bommanahalli, Bangalore - 560 068.



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Departmental Committee Meeting -ECE

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 (EVEN)

The Department curriculum committee was made and the meeting was held on 12/02/2017 and the following members were present for the meeting.

Slnno.	NAME	DESIGNATION
1	Dr.Vivek.M	Professor
2	Dr.PreetiSharan	Professor
3.	Mr.N.Jayaraj	AssociateProf
4	Ms.SajithraVarun	AssociateProf
5	Mr.Piruthviraj.P	AssociateProf
6	Mr.N.Sridhar	AssociateProf
7	Ms.ChrispinJiji	Asst.Professor
8	Mr.Ramesh.T.M	Asst.Professor
9	Ms.SowmyaPadukone.G	Asst.Professor
10.	Ms.ReemaSharma	Asst.Professor
11.	Mr.BhargavRamGowd	Asst.Professor
12.	Ms.LayaTojo	Asst.Professor
13.	Ms.Chandrakala.S	Asst.Professor
14..	Ms.Aruna.J	Asst.Professor
15..	Mr.ManjunathSheth	Asst.Professor
16.	Mr.Veeresh.H	Asst.Professor
17.	Mr.Anand.K.Warad	Asst.Professor



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18.	Mr.RichardLincolnPaulraj	Asst.Professor
19..	Ms.SoniyaJames	Asst.Professor
20.	Ms.Lakshmi.R	Asst.Professor
21	Mr.AravindReddy	Asst.Professor
22	TejalFarkhande	Asst.Professor
23.	Ashwini.M	Asst.Professor
24	Raghavendra.M	Asst.Professor
25	MttuGeorge	Asst.Professor
26	Prashanth.N	Asst.Professor
27	Dhanya	Asst.Professor
28.	JagadeeshwarReddy	Asst.Professor
29.	Sheela.C	Asst.Professor
30.	Vaibhav	Professor
31.	Sunitha	Asst.Professor
32.	Dr.Manju Devi	Prof&HOD
33.	Dr.AnilTiwari	Professor

Agenda:

- (i) Even Semester Plan for Academics & Co-CurricularActivities
- (ii) Introduction of CBCS & orientation for Students
- (iii) Arrangement of Seminars, Field Visits & IndustrialVisit to Students
- (iv) Conduction of ProjectWork,Internship work to Students



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Summary: Minutes of meeting

,Dr.Manju Devi HOD & Prof welcomed all the faculty and explained VTU, EVEN Semesterr 2016-17 Regulations.

- 1 Semester plan for 2016-17 Evensemester and mentioning the activities planned inthe department.

Sl.No.	NameoftheDepartment	CBCS
1.	ECE	2016-17 Scheme

The discussion of the subjects of CBCS given in the above table, selected by the students.

- 2 Asper the VTU regulation guide lines the students of B.E have to select one subject from theMOOCS-I,MOOCS-II&MOOCS-III

Sl.No	NameoftheDepartment	MOOCS-I	MOOCS – II	MOOCS– III
1.	ECE	Nano-Electronics	Operating System	Automotive Electronics

- 3 Syllabus copy prescribed by theuniversity circulated to thes tudents and faculty.
- 4 Department announced to conduct the regular seminars to the students.
- 5 Department plans to all ot the assignment topics to the students and toallocate the tutorial topics to the students.
- 6 Department plansforFieldVisit/IndustrialVisit.
- 7 Planning for the (FinalYear's) ProjectWorks/Internships (with company names and details).
- 8 Mentor menteelist–discussion



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Sl.No.	Nameofthedepartment	NameoftheCertificateProgram
1.	ECE	NCSEM-2017


The following certificate programs will be conducted during
2016 – 2017EVENsemester

- 9 The following value-added programs will be conducted during 2016
– 2017EVENSEmester

Sl.No.	Nameofthedepartment	NameoftheCertificateProgram
1.	ECE	ME GAMIND

Resolutions:

The HOD & Faculties of the Department will do the Resolution that We all will work towards the over all growth of the Department, Students & Organization.


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HOD-ECE



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Departmental Committee Meeting – (EEE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 –(ODD)

The department curriculum committee was made and the meeting was held on 21/07/2016 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr.H.B.PHANI RAJU	Prof.& HOD
2	Dr.V.Chinnappan	Prof
3	Dr.Sidheshwarprasad	Prof
4	Dr.Gurumurthy	Prof.
5	Dr.Puneet Kaur	Assoc.Prof.
6	Dr.Gangadhara Swami	Prof.
7	Mrs.SandhyaRai	Assoc. Prof.
8	Mr.N.Jayakumar	Assoc. Prof.
9	Mrs.Nisha.C.Rani	Assoc.Prof.
10	Mrs.B.DeviVighneshwari	Assoc. Prof.
11	Mrs.Raichel Ruby	Assoc.Prof.
12	Mrs.Manjula.C	Assoc.Prof.
13	Mrs.Viji.K	Asst.Prof.
14	Mrs.NalinaKumari	Asst. Prof
15	Mr.Muniyappa	Asst.Prof.
16	Mrs.Thilaga.P	Asst.Prof.
17	Mrs.AnupamaSisodiya	Asst.Prof.



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18	Mrs.NavathaKumari	Asst.Prof.
19	Mrs.Sumitha.T.L	Asst.Prof.
20	Mrs.Someswari	Asst.Prof.
21	Mrs.ArutselviNagammai	Asst.Prof.
22	Ms.Pavithra.P.S	Asst.Prof.
23	Ms.Deepa.N.Raju	Asst.Prof.
24	Mrs.Vinutha.Y.E	Asst.Prof.
25	Mrs.Vaishnavi Galli	Asst.Prof.
26	Mrs.Thiruvonasundari.D	Asst.Prof.
27	Mrs.Manjusha Mishra	Asst.Prof.
28	Ms.Savitha.M	Asst.Prof.
29	Ms.Swapna.C.M	Asst.Prof.
30	Mrs.Resna.S.R	Asst.Prof.
31	Mrs.Samatha	Asst.Prof.
32	Dhanya .P.S	Assoc.Prof.

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship

Minutes of Meeting:



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1. HOD, Dr.H.B.PHANI RAJU welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	10EE751	HVDC Transmission
2	10EE762	Computer control of Electrical drives
3	10EE764	VLSI Circuit and Design
4	15KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
5	15MATDIP31	Additional Mathematics –I

5. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
6. Department announced to conduct the regular seminars to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2016 – 2017 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	EEE	Technical Skill Training on "AUTOMATION (PLC&SCADA), DRIVES, LV SWITCHGEAR"
2.	EEE	Technical Skill Training on "EMBEDDED SYSTEM -CRANES VARSITY"

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

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Departmental Committee Meeting – (EEE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 –(EVEN)

The department curriculum committee was made and the meeting was held on 17/02/2017 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr.H.B.PHANI RAJU	Prof.& HOD
2	Dr.V.Chinnappan	Prof
3	Dr.Sidheshwarprasad	Prof
4	Dr.Gurumurthy	Prof.
5	Dr.Puneet Kaur	Assoc.Prof.
6	Dr.Gangadhara Swami	Prof.
7	Mrs.SandhyaRai	Assoc. Prof.
8	Mr.N.Jayakumar	Assoc. Prof.
9	Mrs.Nisha.C.Rani	Assoc.Prof.
10	Mrs.B.DeviVighneshwari	Assoc. Prof.
11	Mrs.Raichel Ruby	Assoc.Prof.
12	Mrs.Manjula.C	Assoc.Prof.
13	Mrs.Viji.K	Asst.Prof.
14	Mrs.NalinaKumari	Asst. Prof
15	Mr.Muniyappa	Asst.Prof.
16	Mrs.Thilaga.P	Asst.Prof.
17	Mrs.AnupamaSisodiya	Asst.Prof.
18	Mrs.NavathaKumari	Asst.Prof.
19	Mrs.Sumitha.T.L	Asst.Prof.



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20	Mrs.Someswari	Asst.Prof.
21	Mrs.ArutselviNagammai	Asst.Prof.
22	Ms.Pavithra.P.S	Asst.Prof.
23	Ms.Deepa.N.Raju	Asst.Prof.
24	Mrs.Vinutha.Y.E	Asst.Prof.
25	Mrs.Vaishnavi Galli	Asst.Prof.
26	Mrs.Thiruvonasundari.D	Asst.Prof.
27	Mrs.Manjusha Mishra	Asst.Prof.
28	Ms.Savitha.M	Asst.Prof
29	Ms.Swapna.C.M	Asst.Prof
30	Mrs.Resna.S.R	Asst.Prof
31	Mrs.Samatha	Asst.Prof.
32	Dhanya .P.S	Assoc.Prof.

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship



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Minutes of Meeting:

1. HOD, Dr.H.B.PHANI RAJU, welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2016-17 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	10EE842	Energy Auditing & Demand Side Management
2	10EE836	Renewable Energy Sources
3	15KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
4	15MATDIP41	Additional Mathematics –II

3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.



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8. Planning for the Final Year's Project Works / Internships.
9. Mentor mentee list – discussion
10. The following certificate programs will be conducted during 2016– 2017 EVEN semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	EEE	Technical Skill Training on “AUTOMATION (PLC&SCADA), DRIVES, LV SWITCHGEAR”
2.	EEE	Technical Skill Training on “EMBEDDED SYSTEM -CRANES VARSITY”

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

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Departmental Committee Meeting –(BRANCH): Mechanical engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2015-2016 –(ODD)

The department curriculum committee was made and the meeting was held on 30/7/2015 and the following members were present for the meeting.

S/no.	NAME	DESIGNATION
1	Dr.BHADRINATH	HOD
2	TITTUMATHEW	Professor
3	MADHUSUDHANREDDY	Professor
4	Dr. JAYAKUMAR	Professor
5	SHIVALINGU	Professor
6	ABHIJITH	Assistant Professor
7	T.V.NAGARAJA	Assistant Professor
8	RAVIPRAKASH	Assistant Professor
9	VIDYADHARPOOJAR	Assistant Professor
10	RANGU	Assistant Professor

Agenda:

1. Finalization of departmental activities for the academic year.



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2. Allocationofsubjectstofaculties.

3. Approvalofprojectbatch.

Summary:Minutes

1. HOD, Dr.Bhadrinath welcomed all the faculty and explained VTU, ODD semesterregulations.
2. As per the VTU regulation guidelines the students of all Odd semester should followit.
3. VTU has introduced Choice Based Credit System (CBCS)
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. DepartmentplansforFieldVisit/Industrial Visit.
7. Planning for the (Final Year's)Project Works / Internships (with company names anddetails).
8. Department plans to allot the assignment topics to the students and to allocate thetutorialtopics to thestudents.

The following certificate programs will be conducted during 2015 – 2016

oddsemester

Sl.No.	Nameofthedeartment	NameoftheCertificateProgram
1.	Mechanicalengineering	Engineeringgraphics
2	Mechanicalengineering	Programmingwithmicroprocessor



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The following value-added programs will be conducted during 2015 – 2016

oddsemester

Sl.No.	Nameofthedepartment	NameoftheValue-addedprograms
1.	Mechanical engineering	Designofcircuitforhydraulicsfluids
2	Mechanical engineering	Programmingwithmicroprocessor

Resolutions:

- Each faculty has to take two theory subjects and one lab, out of which one subject willbechoiceoffaculty while theotherssubjectwillbe left to the discreet of HOD.
- Departmental activities are to be planned as per calendar of institution and must begotapproval from principal.
- Fore man is given in charge to finalise the budge allocations for variouslabs/workshopsin consultation with lab in charges.


PROFESSOR & HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
BOMMANAHALLI, BANGALORE 560068



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Departmental Committee Meeting–(BRANCH): mechanical engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2015-2016–(EVEN)

The department curriculum committee was made and the meeting was held on 16/01/2016 and the following members were present for the meeting.

S/no.	NAME	DESIGNATION
1	Dr.BHADRINATH	HOD
2	TITTUMATHEW	Professor
3	MADHUSUDHANREDDY	Professor
4	Dr.JAYAKUMAR	Professor
5	SHIVALINGU	Professor
6	ABHIJITH	Assistant Professor
7	T.V.NAGARAJA	Assistant Professor
8	RAVIPRAKASH	Assistant Professor
9	VIDYADHARPOOJAR	Assistant Professor
10	RANGU	Assistant Professor

Agenda:

1. Allocation of subject to staff.



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2. Identifying lab incharges /mentors /class teachers.
3. Finalizing departmental activities to be conducted.

Summary:Minutes

1. HOD, Dr. Badrinath welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2015-16 even semester and mentioning the activities planned in the department.

Sl.No.	NameoftheDepartment	CBCS
1.	Mechanical engineering	1 st &2 nd semester

3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. As per the VTU regulation guidelines the students of B.E have to select one subject
5. from the MOOCS-I, MOOCS-II & MOOCS-III

Sl.No	NameoftheDepartment	MOOCS – I	MOOCS –II	MOOCS –III
1.	Mechanical engineering	nil	nil	nil

6. Implementation of prescribed university syllabus approved by Principal for odd semester.
7. Implementation of CBCS syllabus prescribed by the university for odd semester.
8. Adherence to the Academic Calendar
9. Implementation of certificate/value added courses.
10. Implementation of Cross cutting Issues.
11. Implementation of field visits, project work, internship

12. The following certificate programs will be conducted during 2015 – 2016 EVEN semester

Sl.No.	Nameofthedepartment	NameoftheCertificateProgram
1.	Mechanicalengineering	nil



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13. The following value-added programs will be conducted during 2015 – 2016(EVENsemester)

Sl.No.	Nameofthedepartment	NameoftheValue-addedprograms
1.	Mechanicalengineering	nil

Resolutions:

- Allocation of subjects for staff senior staff to take first year classes.
- Class teachers/mentors/ labinchar gesaremade.
- Lab instructors to be changed on priority basis so that each should be able to handleall mechanical labs.
- Mento rmenteelist approved.


PROFESSOR & HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
BOMMANAHALLI, BANGALORE 560068

Departmental Committee Meeting – BIOTECHNOLOGY



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DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 –(ODD)

The department curriculum committee was made and the meeting was held on 18/07/2016 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr. Kusum Paul	HOD
2.	Dr. B.K.Manjunath	Professor
3.	Dr. T.K. Suma	Asst.Professor
4.	Prof. Valarmathy	Asst.Professor
5.	Prof. Divakara	Asst.Professor
6.	Prof. Salma Kausar.M	Asst.Professor
7.	Prof.Tanushree	Asst.Professor
8.	Prof.Shambhu	Asst.Professor

Agenda:

1. Semester planner was decided and department level coordinators work was allotted
2. General instruction & working plan of the department to be discussed
3. Updating of course files & NBA status discussion
4. Action plan to execute department activity.
5. Other points if any to be discussed

Summary: Minutes

1. Faculties were allotted with coordinator workload for the new academic year
2. Each faculty was assigned with theory & practical subject workload
3. FDP to be organized by Dr. Manjunath



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4. All faculties were informed to submit self appraisal form indicating their contribution for the growth of the department.
5. All faculties were informed to ensure every class performs atleast 2 activities.

Resolutions:

- To achieve better results and aiming for many more VTU ranks.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/ Reputed MNC Companies.


Dr. K. S. Paul
Principal
Department of Biotechnology
The Oxford College of Engineering
Bangalore - 560 068.

DEPARTMENTAL COMMITTEE MEETING – BIOTECHNOLOGY

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 –(EVEN)



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The department curriculum committee was made and the meeting was held on 21/02/2017 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr. Kusum Paul	HOD
2.	Dr. B.K.Manjunath	Professor
3.	Dr. T.K. Suma	Asst.Professor
4.	Prof. Valarmathy	Asst.Professor
5.	Prof. Divakara	Asst.Professor
6.	Prof. Salma Kausar.M	Asst.Professor
7.	Prof.Tanushree	Asst.Professor
8.	Prof.Shambhu	Asst.Professor

Agenda:

1. Semester planner was decided and department level coordinators work was allotted
2. General instruction & working plan of the department to be discussed
3. Updating of course files
4. Faculty assigning of project guides, scrutinizing of project domain & title
5. Action plan to execute department activity.
6. Other points if any to be discussed

Summary: Minutes

1. HOD, Dr. Kusum Paul welcomed all the faculty and explained VTU, EVEN semester regulations.



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2. HOD informed about the Semester plan for 2016-17 even semester and mentioned the activities planned in the department.
 3. Syllabus copy prescribed by the university circulated to the students and faculty.
 4. Faculties were informed to make students select the elective subjects for even semester.
 5. HOD informed faculty coordinator to plan for Industrial visits/ field visit.
 6. Planning for the (Final Year's) Project Works / Internships (with company names and details) was intimated by HOD.
 7. Mentor mentee list – discussion was done and the document updating status & deadline was informed to all the faculties.
 8. The following value-added programs will be conducted during 2016 – 2017 EVEN semester
- The following value-added programs will be conducted during 2016 – 2017 odd semester**

Sl. No.	Name of the department	Name of the Value-added programs
1.	BT	Molecular biology techniques
2.	BT	Soft skill & Aptitude training

Resolutions:

- To achieve better results and aiming for many more VTU ranks.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.



Dr. Kishan Paul
Prof. & Head
Department of Biotechnology
The Oxford College of Engg.
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DEPARTMENTAL COMMITTEE MEETING – (CIVIL)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 –(ODD)



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The department curriculum committee was made and the meeting was held on 17/07/2016 and the following members were present for the meeting.

Sl. No.	Name	Designation
1.	Dr. Amarnath K	Professor
2	Dr. T S Malleshaiah	Professor
3	Mr Shivanand C G	Assot Professor
4	Mr.Amruth	Asst.Professor
5	Mr. Maheshkumar	Asst. Professor
6	Ms.Sowmya	Asst. Professor
7	Ms. Harsha	Asst. Professor
8	Ms. Shradha	Asst. Professor
9.	Mrs.Karuna	Asst Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar



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- Implementation of certificate/value added courses.
- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

- 1.HOD, Dr. K Amarnath welcomed all the faculty and explained VTU, ODD semester regulations.
- 2.As per the VTU regulation guidelines the students of all Odd semester should follow it.
- 3.VTU has introduced Choice Based Credit System (CBCS).
- 4.Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	15CV742	Ground Water Hydraulics
2	15CV751	Urban transport planning

- 6.The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
- 7.Department announced to conduct the regular seminars to the students.
- 8.Department plans for Field Visit / Industrial Visit.
- 9.Planning for the Final Year's Project Works / Internships.
- 10.Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2016 – 2017 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	CIVIL	Soft Skill and Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.



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- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

Dr AMARNATH K
PROFESSOR

Head of the Department
Department of Civil Engineering
The Oxford College of Engineering
Bangalore-560 068.



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Departmental Committee Meeting – (CIVIL)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 –(EVEN)

The department curriculum committee was made and the meeting was held on 03/02/2017 and the following members were present for the meeting.

Sl. No.	Name	Designation
1.	Dr. Amarnath K	Professor
2	Dr. T S Malleshaiah	Professor
3	Mr Shivanand C G	Assot Professor
4	Mr.Amruth	Asst.Professor
5	Mr. Maheshkumar	Asst. Professor
6	Ms.Sowmya	Asst. Professor
7	Ms. Harsha	Asst. Professor
8	Ms. Shradha	Asst. Professor
9.	Mrs.Karuna	Asst Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:



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- 1.HOD, Dr.K Amarnath welcomed all the faculty and explained VTU, EVEN semester regulations.
- 2.Semester plan for 2016-17 even semester and mentioning the activities planned in the department.

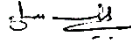
Sl. No.	CBCS ELECTIVE/MATDIP	
1	15CV833	Pavement Design

- 3.The discussion of the subjects of CBCS given in the above table, selected by the students.
- 4.Syllabus copy prescribed by the university circulated to the students and faculty.
- 5.Department announced to conduct the regular seminars to the students.
- 6.Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
- 7.Department plans for Field Visit / Industrial Visit.
- 8.Planning for the Final Year's Project Works / Internships.
- 9.Mentor mentee list – discussion

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

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Dr AMARNATH K
PROFESSOR
Department of Civil Engineering
The Oxford College of Engineering
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DEPARTMENTAL COMMITTEE MEETING – (AUTOMOBILE ENGINEERING)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 –(ODD)

The department curriculum committee was made and the meeting was held on 20/07/2016 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. Raju B R	Professor
2	Dr. Suresh R	Professor
3	Mr. Ashok Kumar Thavd	Assot. Professor
4	Mr. Sandeep K Chavan	Asst. Professor
5	Mr. Hemantha C	Asst. Professor
6	Mr. Priyankar Dhole	Asst. Professor
7	Mr. Kiran H Mudigowdar	Asst. Professor
8	Mr. Harish Kumar M	Asst. Professor
9	Mr. Maruthi S B	Asst. Professor
10	Mr. Deepak U. S	Asst. Professor
11	Mr. Raviteja R. N	Asst. Professor
12	Mr. Mahipal Reddy	Asst. Professor
13	Mr. Prasanna. S. M	Asst. Professor
14	Mr. Joshua. F	Asst. Professor
15	Mr. Karthik. K	Asst. Professor



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Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr.Raju B R welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS) in 2015-16.
4. Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	2020 scheme ELECTIVE/MATDIP	
1	10AU752	Two & three wheeled vehicle
2	10AU761	Non-Destructing testing
3	14CIP/CIV18/28	Kannada/Constitution of India, Professional Ethics and Human Rights
4	15MATDIP31	Additional Mathematics –I

5. The discussion of the subjects and syllabus of CBCS scheme. Elective subjects selected by the students for final year students.
6. Department announced to conduct the regular seminars to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2016 - 2017 odd semester



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Sl. No.	Name of the department	Name of the Value-added programs
4.	Automobile Engineering.	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

Professor & Head
Department of Automobile Engineering
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DEPARTMENTAL COMMITTEE MEETING – (AUTOMOBILE ENGINEERING)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 –(EVEN)

The department curriculum committee was made and the meeting was held on 06/02/2017 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. Raju B R	Professor
2	Dr. Suresh R	Professor
3	Mr. Ashok Kumar Thavdi	Assot. Professor
4	Mr. Sandeep K Chavan	Asst. Professor
5	Mr. Hemantha C	Asst. Professor
6	Mr. Priyankar Dhole	Asst. Professor
7	Mr. Kiran H Mudigowdar	Asst. Professor
8	Mr. Harish Kumar M	Asst. Professor
9	Mr. Maruthi S B	Asst. Professor
10	Mr. Deepak U. S	Asst. Professor
11	Mr. Raviteja R. N	Asst. Professor
12	Mr. Mahipal Reddy	Asst. Professor
13	Mr. Prasanna. S. M	Asst. Professor
14	Mr. Joshua. F	Asst. Professor
15	Mr. Karthik. K	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.



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- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

12. HOD, Dr. Raju B R, welcomed all the faculty and explained VTU, EVEN semester regulations.
13. Semester plan for 2016-17 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	10AU834	Alternative energy source
	10AU841	Hybrid vehicle
2	14CIP/CIV18/28	Kannada/Constitution of India, Professional Ethics and Human Rights
3	15MATDIP41	Additional Mathematics –II

14. The discussion of the subjects of CBCS scheme. Elective subject selected by the students.
15. Syllabus copy prescribed by the university circulated to the students and faculty.
16. Department announced to conduct the regular seminars to the students.
17. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
18. Department plans for Field Visit / Industrial Visit.



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19. Planning for the Final Year's Project Works / Internships.


20. Mentor mentee list – discussion

21. The following certificate programs will be conducted during 2016 – 2017 EVEN semester.

Sl. No.	Name of the department	Name of the Certificate Program
1	Automobile Engineering	CATIA V5

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Professor & Head
Department of Automobile Engineering
The Oxford College of Engineering
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Departmental Committee Meeting – (MTE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 –(ODD)

The department curriculum committee was made and the meeting was held on 14/07/2018 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. NB Doddapattar	Professor & HOD
2	Dr. Shivappa	Professor & HOD
3	Mr. Rajesh	Asst. Professor
4	Mr. Rgavendra	Asst. Professor
5	Mr. Ravi s Jadhav	Asst. Professor
6	Ms. Rekha	Asst. Professor
7	Ms. Premela	Asst. Professor
9	Ms. Vijaykumar kurubha	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. Rohini Deshpande welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).



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4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans for Field Visit / Industrial Visit.
7. Planning for the Final Year's Project Works / Internships.
8. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2018 – 2019 odd semester


Sl. No.	Name of the department	Name of the Certificate Program
1	MTE	MATLAB
2		LEGO
3		ROBOTICS

The following value-added programs will be conducted during 2018 – 2019 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
	MTE	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


HOD
Prof. & HOD
Department of Mechatronics
The Oxford College Of Engineering
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Departmental Committee Meeting – (MTE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 –(EVEN)

The department curriculum committee was made and the meeting was held on 01/02/2017 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. NB Doddapattar	Professor & HOD
2	Dr. Shivappa	Professor & HOD
3	Mr. Rajesh	Asst. Professor
4	Mr. Rgavendra	Asst. Professor
5	Mr. Ravi s Jadhav	Asst. Professor
6	Ms. Rekha	Asst. Professor
7	Ms. Premela	Asst. Professor
9	Ms. Vijaykumar kurubha	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:



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1. HOD, Dr. NB Doddapattar, welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2018-19 even semester and mentioning the activities planned in the department.
3. Syllabus copy prescribed by the university circulated to the students and faculty.
4. Department announced to conduct the regular seminars to the students.
5. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
6. Department plans for Field Visit / Industrial Visit.
7. Planning for the Final Year's Project Works / Internships.
8. Mentor mentee list – discussion
9. The following certificate programs will be conducted during 2018 – 2019 EVEN semester

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


HOD

Prof. & HOD
Department of Mechatronics
The Oxford College Of Engineering
Bommanahalli Bangalore - 560 068.



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Ph: 080-61754601/602, Fax: 080 - 25730551

E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

MBA - DEPARTMENTAL CURRICULUM COMMITTEE MEETING
2016-2017 –(ODD)

The department curriculum committee was made and the meeting was held on 15/07/2016 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr James Thomas	HOD
2.	Dr.PGiridhar Reddy	Associate Professor
3.	Dr BalaKoteswari	Associate Professor
4.	Ms. Umasharma	Assistant Professor
5.	Ms. Richa Tiwari	Assistant Professor
6.	Ms. Savitha	Assistant Professor
7.	Ms. Sahana	Assistant Professor
8.	Mr.Gokul	Assistant Professor
9.	Mr.Chikkegowda	Assistant Professor
10.	Ms.Chandrika	Assistant Professor
11.	Ms. Paronita	Assistant Professor

Agenda:

1. Guidelines and syllabus discussion
2. Seminars on specialization subjects
3. Industrial visit



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4. Internship and project topic

Summary: Minutes

1. HOD, Dr. James Thomas welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. Syllabus copy prescribed by the university circulated to the students and faculty.
4. Department announced to conduct the regular seminars to the students.
5. Department plans for Field Visit/ Industrial Visit.
6. Planning for the (Final Year's)Project Works / Internships (with company names and details).
7. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

Resolutions:

1. Guide lines and syllabus of odd semester should be discussed and plan the subjects on before 17th July.
2. Industrial visit plan has to be planned and visited 7th august.
Companies have to be allocated and verified within 15th august.
3. Assignment and tutorial time table made ready on before 23rd July.

HOD

HOD, Deptt. of Business Administration
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bangalore 560 068



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MBA DEPARTMENTAL CURRICULUM COMMITTEE MEETING
2016-2017 – (EVEN)

The department curriculum committee was made and the meeting was held on 02/02/2017 and the following members were present for the meeting.

Agenda:

Sl no.	NAME	DESIGNATION
1.	Dr James Thomas	HOD
2.	Dr.PGiridhar Reddy	Associate Professor
3.	Dr BalaKoteswari	Associate Professor
4.	Ms. Umasharma	Assistant Professor
5.	Ms. Richa Tiwari	Assistant Professor
6.	Ms. Savitha	Assistant Professor
7.	Ms. Sahana	Assistant Professor
8.	Mr.Gokul	Assistant Professor
9.	Mr.Chikkegowda	Assistant Professor
10.	Ms.Chandrika	Assistant Professor
11.	Ms. Paronita	Assistant Professor

1. Discussion of VTU regulations
2. Syllabus
3. Seminar plan
4. Project and Industrial visit

Summary: Minutes



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1. HOD, Dr. James Thomas welcomed all the faculty and explained VTU, ODD semester regulations.
2. Semester plan for 2016-17 even semester and mentioning the activities planned in the department.
3. Syllabus copy prescribed by the university circulated to the students and faculty.
4. Department announced to conduct the regular seminars to the students.
5. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
6. Department plans for Field Visit / Industrial Visit.
7. Planning for the (Final Year's) Project Works / Internships (with company names and details).
8. Mentor mentee list – discussion

Resolutions:

1. Mentoring activities plan has to ready 10th Feb.
2. Seminar on all domain specialization each has to be conduct on before 20th Feb.
3. Field visit and Industrial visit organized before 1st March.
4. Project work guidance and Topic evaluation list should be ready on the before 14th Feb.

HOD

HOD, Deptt. of Business Administration
The Oxford College of Engineering
Bommanahalli, Hosur Road
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Departmental Committee Meeting – (MCA)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 –(ODD)

The department curriculum committee was made and the meeting was held on 26/07/2016 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. M S Shashidhara	Professor
2	Dr. Praveen Kumar P U	Professor
3	Mr. Ashok B P	Assot. Professor
4	Mr. Dharamvir	Assot. Professor
5	Mr. JC Achutha	Assot. Professor
6	Mrs. Saritha S	Assot. Professor
7	Mrs. Mridula Shukla	Assot. Professor
8	Mrs. Selvi E	Assot. Professor
9	Mrs Malarvizhi U.	Assot. Professor
10	Ms. R Ushasree	Asst. Professor
11	Mr. Changappa M R	Asst. Professor
12	Mr. Indrakumar S S	Asst. Professor
13	Mrs. Stuti Agarwal	Asst. Professor
14	Ms. Anjana S Murthy	Asst. Professor
15	Ms. Punya V	Asst. Professor
16	Ms. Sudha K	Asst. Professor
17	Ms. Lavanya B K	Asst. Professor



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18	Ms. Priyanka	Asst. Professor
19	Ms. Kimmi Kumari	Asst. Professor
20	Mr. Chandran M	Asst. Professor
21	Mrs.Selastina Mary A	Asst. Professor
22	Mrs.Moumita Kali	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

10. HOD, Dr. M S Shashidhara welcomed all the faculty and explained VTU, ODD semester regulations.
11. As per the VTU regulation guidelines the students of all Odd semester should follow it.
12. VTU has introduced Choice Based Credit System (CBCS).
13. Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	16MCA13	Web Technologies
2	16MCA15	Discrete Mathematical Structures

14. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
15. Department announced to conduct the regular seminars to the students.



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16. Department plans for Field Visit / Industrial Visit.

17. Planning for the Final Year's Project Works / Internships.


18. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2016 – 2017 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
5.	MCA	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Signature of the HOD
Dr. M.S. Shashidhara
Dept. of MCA
HOD-MCA



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Departmental Committee Meeting – (MCA)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017 –(EVEN)

The department curriculum committee was made and the meeting was held on 18/02/2017 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. M S Shashidhara	Professor
2	Dr. Praveen Kumar P U	Professor
3	Mr.Ashok B P	Assot. Professor
4	Mr. Dharamvir	Assot. Professor
5	Mr. JC Achutha	Assot. Professor
6	Mrs. Saritha S	Assot. Professor
7	Mrs. Mridula Shukla	Assot. Professor
8	Mrs. Selvi E	Assot. Professor
9	Mrs Malarvizhi U.	Assot. Professor
10	Ms. R Ushasree	Asst. Professor
11	Mr. Changappa M R	Asst. Professor
12	Mr. Indrakumar S S	Asst. Professor
13	Mrs. Stuti Agarwal	Asst. Professor
14	Ms. Anjana S Murthy	Asst. Professor
15	Ms. Punya V	Asst. Professor
16	Ms. Sudha K	Asst. Professor
17	Ms. Lavanya B K	Asst. Professor
18	Ms. Priyanka	Asst. Professor
19	Ms. Kimmi Kumari	Asst. Professor



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20	Mr. Chandran M	Asst. Professor
21	Mrs.Selastina Mary A	Asst. Professor
22	Mrs.Moumita Kali	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

22. HOD, Dr. M S Shashidhara, welcomed all the faculty and explained VTU, EVEN semester regulations.
23. Semester plan for 2016-17 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	16MCA21	Python Programming

24. The discussion of the subjects of CBCS given in the above table, selected by the students.

25. Syllabus copy prescribed by the university circulated to the students and faculty.

26. Department announced to conduct the regular seminars to the students.

27. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.



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28. Department plans for Field Visit / Industrial Visit.
29. Planning for the Final Year's Project Works / Internships.
30. Mentor mentee list – discussion
31. The following certificate programs will be conducted during 2016 – 2017 EVEN semester

Sl. No.	Name of the department	Name of the Certificate Program
1	MCA	IOT

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Signature of the HOD
Dr. M.S. Shashidhara
Dept. of MCA

HOD-MCA



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List and Description of courses (1) Subject, (2) Subject Code, (3) Curriculum Objective, (4) Delivery Methodology with Number of hours, (5) PO, PSO, CO Mapping, (6) Crosscutting Issues Integrated which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Dept. of Computer Science & Engineering

2016-17

Constitution of India, Professional Ethics and Human Rights (CPH) - 15CPH18

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
1	15MAT11	Engineering Maths-I	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	15PHY12	Engineering Physics	BS	Physics	Basic Sc.	4 (T)	80	20	100	4
3	15CIV13	Elements of Civil Engg. & Mechanics	ES	Civil Engg.	Civil Engg.	4 (T)	80	20	100	4
4	15EME14	Elements of Mechanical Engg.	ES	Mech. Engg.	Mech. Engg.	4 (T)	80	20	100	4
5	15ELE15	Basic Electrical Engg.	ES	E & E	E & E	4 (T)	80	20	100	4
6	15WSL16	Workshop Practice	ES	Mech., Auto, IP, IEM, Mfg. Engg.	Mech. Engg.	3(2 hrslab+ 1 hr instruction)	80	20	100	2
7	15PHYL17	Engg. Physics Lab	BS	Physics	Basic Sc.	3(2 hrslab+ 1hrinstruction)	80	20	100	2
8	15CPH18	Constitution of India, Professional Ethics and Human Rights (CPH)	MNC	Humanities		2 (Tutorial)	40	10	50	--
9		Language (Kan.)	Mandatory Learning	Humanities		1 (T)	-	-	-	--
						29	600	150	750	24



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CONSTITUTION OF INDIA, PROFESSIONAL ETHICS & HUMAN RIGHTS

Subject Code - 15CPH18/15CPH28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course objectives:

1. To provide basic information about Indian constitution.
2. To identify individual role and ethical responsibility towards society.
3. To understand human rights and its implications

Module 1

Introduction to the Constitution of India, The Making of the Constitution and Salient features of the Constitution. 2 Hours Preamble to the Indian Constitution **Fundamental Rights & its limitations. 3 Hours**

Module 2

Directive Principles of State Policy & Relevance of Directive Principles State Policy Fundamental Duties. 2 Hours Union Executives – President, Prime Minister Parliament Supreme Court of India. 3 Hours

Module 3

State Executives – Governor Chief Minister, State Legislature High Court of State. 2 Hours Electoral Process in India, Amendment Procedures, 42nd, 44th, 74th, 76th, 86th & 91st Amendments. 3 Hours

Module 4

Special Provision for SC & ST Special Provision for Women, Children & Backward Classes Emergency Provisions. Human Rights –Meaning and Definitions, Legislation Specific Themes in Human Rights- Working of National Human Rights Commission in India 3 Hours

Powers and functions of Municipalities, Panchyats and Co - Operative Societies. 2 Hours

Module 5

Scope & Aims of Engineering Ethics, Responsibility of Engineers Impediments to Responsibility. 2 Hours Risks, Safety and liability of Engineers, Honesty, Integrity & Reliability in Engineering. 3 Hours

Course outcomes:

After study of the course, the students are able to

- Have general knowledge and legal literacy and thereby to take up competitive examinations
- Understand state and central policies, fundamental duties
- Understand Electoral Process, special provisions
- Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, and
- Understand Engineering ethics and responsibilities of Engineers.
- Have an awareness about basic human rights in India

Text Books:



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1. Durga Das Basu: "Introduction to the Constitution on India", (Students Edn.) Prentice –Hall EEE, 19th / 20th Edn., 2001
2. Charles E. Haries, Michael S Pritchard and Michael J. Robins "Engineering Ethics" Thompson Asia, 2003-08-05.

Reference Books:

1. M.V.Pylee, "An Introduction to Constitution of India", Vikas Publishing, 2002.
2. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, "Engineering Ethics", Prentice –Hall of India Pvt. Ltd. New Delhi, 2004
3. Brij Kishore Sharma, "Introduction to the Constitution of India", PHI Learning Pvt. Ltd., New Delhi, 2011.
4. Latest Publications of Indian Institute of Human Rights, New Delhi.



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Environmental Studies - 15CIV18

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
1	15MAT11	Engineering Maths-I	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	15CHE12	Engineering Chemistry	BS	Chemistry	Basic Sc.	4 (T)	80	20	100	4
3	15PCD13	Programming in C & Data Structures	ES	Any Engineering Department	CSE	4 (T)	80	20	100	4
4	15CED14	Computer Aided Engineering Drawing	ES	Mech./IP/Auto / Mfg.Engg./ IEM	Mech. Engg.	6 (2I+ 4P)	80	20	100	4
5	15ELN15	Basic Electronics	ES	E & C / E & E / TC / IT	E & C	4 (T)	80	20	100	4
6	15CPL16	Computer Programming Lab	ES	Any Engineering Department	CSE	3(2 hrs lab+ 1 hrTutorial)	80	20	100	2
7	15CHEL17	Engg. Chemistry Lab	BS	Chemistry	Basic Sci.	3(2 hrs lab+ 1 hrTutorial)	80	20	100	2
8	15CIV18	Environmental Studies	MNC	Civil / Environmental	Civil	2 (Tutorial)	40	10	50	--
9		Language (Eng.)	Mandatory Learning	Humanities		1 (T)	-	-	-	--
Total						31	600	150	750	24



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ENVIRONMENTAL STUDIES

[As per Choice Based Credit System (CBCS) scheme]

(Effective from the academic year 2015 -2016)

SEMESTER - I/II

Subject Code	15CIV18/15CIV28	IA Marks	10
Number of Lecture Hours/Week	02	Exam Marks	40
Total Number of Lecture Hours	25	Exam Hours	02

Course Objectives:

1. To identify the major challenges in **environmental issues** and evaluate possible solutions.
2. Develop analytical skills, critical thinking and demonstrate socio-economic skills for **sustainable development**.
3. To analyze an overall impact of specific issues and develop **environmental management plan**.

Module - 1

Introduction: **Environment** - Components of Environment Ecosystem: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & Social Security.

2Hours

Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation Environmental Impact Assessment, **Sustainable Development**.

3Hours

Module - 2

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle.

2 Hours

Energy – Different types of energy, Conventional sources & Non-Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy.

3Hours

Module – 3

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects.

2 Hours

Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management.

3 Hours

Module – 4

Air Pollution & Automobile Pollution: Definition, Effects – **Global Warming**, Acid rain & Ozone layer depletion, controlling measures.

3 Hours

Solid Waste Management, E - Waste Management & Biomedical Waste Management - Sources,



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Characteristics & Disposal methods.

2 Hours

Module – 5

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices.

2 Hours

Environmental Acts & Regulations, Role of government, Legal aspects, Role of Non- governmental Organizations (NGOs), **Environmental Education & Women Education.**

3 Hours

Course Outcomes

Students will be able to,

1. Understand the principles of ecology and **environmental issues** that apply to air, land, and water issues on a global scale,
2. Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the **environment.**
3. Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components
4. Apply their **ecological** knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Textbooks

1. Benny Joseph (2005), "Environmental Studies", Tata McGraw – Hill Publishing Company Limited.
2. R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
3. R Rajagopalan, "Environmental Studies – From Crisis to Cure", Oxford University Press, 2005,
4. Aloka Debi, "Environmental Science and Engineering", Universities Press (India) Pvt. Ltd. 2012.

Reference Books:

1. Raman Sivakumar, "Principals of Environmental Science and Engineering", Second Edition, Cengage learning Singapore, 2005
2. P. Meenakshi, "Elements of Environmental Science and Engineering", Prentice Hall of India Private Limited, New Delhi, 2006
3. S.M. Prakash, "Environmental Studies", Elite Publishers Mangalore, 2007
4. ErachBharucha, "Text Book of Environmental Studies", for UGC, University press, 2005
5. G.Tyler Miller Jr., "Environmental Science – working with the Earth", Tenth Edition, Thomson Brooks /Cole, 2004
6. G.Tyler Miller Jr., "Environmental Science – working with the Earth", Eleventh Edition, Thomson Brooks /Cole, 2006
7. Dr.Pratiba Sing, Dr.AnoopSingh and Dr.PiyushMalaviya, "Text Book of Environmental and Ecology", Acme Learning Pvt. Ltd. New Delhi.



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B.E Information Science & Engineering

Scheme:

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016

II SEMESTER B.E./B.TECH

Sl. No.	Subject Code	Subject	Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks			Credits	
						Th./Pr.	I.A.	Total		
1	15MAT21	Engineering Maths-II	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	15CHE22	Engineering Chemistry	BS	Chemistry	Basic Sc.	4 (T)	80	20	100	4
3	15PCD23	Programming In C & Data Structures	ES	Any Engineering Department	CSE	4 (T)	80	20	100	4
4	15CED24	Computer Aided Engineering Drawing	ES	Mech./IP/Auto/ Mfg.Engg./ IEM	Mech. Engg.	6 (2I+ 4P)	80	20	100	4
5	15ELN25	Basic Electronics	ES	E & C / E & E / TC / IT	E & C	4 (T)	80	20	100	4
6	15CPL26	Computer Programming Lab	ES	Any Engineering Department	CSE	3(2 hrs lab+ 1 hr Tutorial)	80	20	100	2
7	15CHEL27	Engg. Chemistry Lab	BS	Chemistry	Basic Sc.	3(2 hrs lab+ 1 hr Tutorial)	80	20	100	2
8	15CIV28	Environmental Studies	MNC	Civil / Environmental	Civil	2 (Tutorial)	40	10	50	--
9		Language (Eng.)	Mandatory Learning	Humanities		1 (T)	-	-	-	--
Total						31	600	150	750	24

Note: The Subjects Kannada and English are Audit Courses



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
CHOICE BASED CREDIT SYSTEM (CBCS)
SCHEME OF TEACHING AND EXAMINATION 2015-2016

II SEMESTER B.E. IT TECH

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	PHYSICS GROUP			Credits	
							Examination Marks				
							Ts./Pr.	L.A.	Total		
1	15MAT21	Engineering Maths-II	BS	Maths	Basic Sc.	4 (T)	80	20	100	4	
2	15PHY22	Engineering Physics	BS	Physics	Basic Sc.	4 (T)	80	20	100	4	
3	15CIV23	Elements of Civil Engg. & Mechanics	ES	Civil Engg.	Civil Engg.	4 (T)	80	20	100	4	
4	15EME24	Elements of Mechanical Engg.	ES	Mech. Engg.	Mech. Engg.	4 (T)	80	20	100	4	
5	15ELE25	Basic Electrical Engg.	ES	E & E	E & E	4 (T)	80	20	100	4	
6	15WSL26	Workshop Practice	ES	Mech., Auto. IP, IEM, Mfg. Engg.	Mech. Engg.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2	
7	15PHYL27	Engg. Physics Lab	BS	Physics	Basic Sc.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2	
8	15CPH28	Constitution of India, Professional Ethics and Human Rights	MNC	Humanities		2 (Tutorial)	40	10	50	--	
9		Language (Kan.)	Mandatory Learning	Humanities		1 (T)	-	-	-	--	
							29	600	150	750	24

Note: The Subjects Kannada and English are Audit Courses



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CONSTITUTION OF INDIA, PROFESSIONAL ETHICS & HUMAN RIGHTS

Subject Code - 15CPH18/15CPH28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course objectives:

1. To provide basic information about Indian constitution.
2. To identify individual role and ethical responsibility towards society.
3. To understand human rights and its implications

Module 1

Introduction to the Constitution of India, The Making of the Constitution and Salient features of the Constitution. 2 Hours Preamble to the Indian Constitution **Fundamental Rights & its limitations. 3 Hours**

Module 2

Directive Principles of State Policy & Relevance of Directive Principles State Policy Fundamental Duties. 2 Hours Union Executives – President, Prime Minister Parliament Supreme Court of India. 3 Hours

Module 3

State Executives – Governor Chief Minister, State Legislature High Court of State. 2 Hours Electoral Process in India, Amendment Procedures, 42nd, 44th, 74th, 76th, 86th & 91st Amendments. 3 Hours

Module 4

Special Provision for SC & ST Special Provision for Women, Children & Backward Classes Emergency Provisions. Human Rights –Meaning and Definitions, Legislation Specific Themes in Human Rights- Working of National Human Rights Commission in India 3 Hours

Powers and functions of Municipalities, Panchyats and Co - Operative Societies. 2 Hours

Module 5

Scope & Aims of Engineering Ethics, Responsibility of Engineers Impediments to Responsibility. 2 Hours Risks, Safety and liability of Engineers, Honesty, Integrity & Reliability in Engineering. 3 Hours

Course outcomes:

After study of the course, the students are able to

- Have general knowledge and legal literacy and thereby to take up competitive examinations
- Understand state and central policies, fundamental duties
- Understand Electoral Process, special provisions
- Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, and
- Understand Engineering ethics and responsibilities of Engineers.
- Have an awareness about basic human rights in India

Text Books:



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2. Charles E. Haries, Michael S Pritchard and Michael J. Robins "Engineering Ethics" Thompson Asia, 2003-08-05.

Reference Books:

1. M.V.Pylee, "An Introduction to Constitution of India", Vikas Publishing, 2002.
2. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, "Engineering Ethics", Prentice –Hall of India Pvt. Ltd. New Delhi, 2004
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4. Latest Publications of Indian Institute of Human Rights, New Delhi.



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Syllabus:

ENVIRONMENTAL STUDIES

[As per Choice Based Credit System (CBCS) scheme] (Effective from the academic year
2015 -2016)

SEMESTER - I/II

Subject Code - 15CIV18/15CIV28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course Objectives:

1. To identify the major challenges in environmental issues and evaluate possible solutions.
2. Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
3. To analyze an overall impact of specific issues and develop environmental management plan.

Module - 1

Introduction: **Environment - Components of Environment Ecosystem**: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & **Social Security**.

2 Hours

Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation **Environmental Impact Assessment**, Sustainable Development. 3 Hours

Module - 2

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. 2 Hours

Energy – Different types of energy, Conventional sources & Non-Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy. 3 Hours

Module -3

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. 2 Hours

Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management. 3 Hours

Module -4

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. 3 Hours

Solid Waste Management, E - Waste Management & Biomedical Waste Management - Sources, Characteristics & Disposal methods. 2 Hours

Module - 5

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. 2 Hours



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Environmental Acts & Regulations, Role of government, Legal aspects, Role of Non-governmental Organizations (NGOs) , Environmental Education & Women Education.

3 Hours

Course Outcome:

Students will be able to,

1. Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
2. Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,
3. Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components
4. Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:

1. Benny Joseph (2005), "Environmental Studies", Tata McGraw – Hill Publishing Company Limited.
2. R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
3. R Rajagopalan, "Environmental Studies – From Crisis to Cure", Oxford University Press, 2005,
4. Aloka Debi, "Environmental Science and Engineering", Universities Press (India) Pvt. Ltd. 2012.

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B.E Electronics & Communication Engineering

CONSTITUTION OF INDIA, PROFESSIONAL ETHICS & HUMAN RIGHTS

Subject Code - 15CPH18/15CPH28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course objectives:

1. To provide basic information about Indian constitution.
2. To identify individual role and ethical responsibility towards society.
3. To understand human rights and its implications

Module 1

Introduction to the Constitution of India, The Making of the Constitution and Salient features of the Constitution. 2 Hours Preamble to the Indian Constitution **Fundamental Rights & its limitations. 3 Hours**

Module 2

Directive Principles of State Policy & Relevance of Directive Principles State Policy Fundamental Duties. 2 Hours Union Executives – President, Prime Minister Parliament Supreme Court of India. 3 Hours

Module 3

State Executives – Governor Chief Minister, State Legislature High Court of State. 2 Hours



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Electoral Process in India, Amendment Procedures, 42nd, 44th, 74th, 76th, 86th & 91st Amendments. 3 Hours

Module 4

Special Provision for SC & ST Special Provision for Women, Children & Backward Classes Emergency Provisions. Human Rights –Meaning and Definitions, Legislation Specific Themes in Human Rights- Working of National Human Rights Commission in India 3 Hours

Powers and functions of Municipalities, Panchyats and Co - Operative Societies. 2 Hours

Module 5

Scope & Aims of Engineering Ethics, Responsibility of Engineers Impediments to Responsibility. 2 Hours Risks, Safety and liability of Engineers, Honesty, Integrity & Reliability in Engineering. 3 Hours

Course outcomes:

After study of the course, the students are able to

- Have general knowledge and legal literacy and thereby to take up competitive examinations
- Understand state and central policies, fundamental duties
- Understand Electoral Process, special provisions
- Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, and
- Understand Engineering ethics and responsibilities of Engineers.
- Have an awareness about basic human rights in India

Text Books:

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2. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, "Engineering Ethics", Prentice –Hall of India Pvt. Ltd. New Delhi, 2004
3. Brij Kishore Sharma, "Introduction to the Constitution of India", PHI Learning Pvt. Ltd., New Delhi, 2011.
4. Latest Publications of Indian Institute of Human Rights, New Delhi.



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MANAGEMENT AND ENTREPRENEURSHIP

Sub Code : 10AL 51 IA Marks :

25Hrs/week:04ExamHours:03

Total Lecture Hrs : 52 Exam Marks : 10

OPART-A

MANAGEMENT UNIT 1: Introduction - Meaning - nature and characteristics of Management, Scope and Functional areas of management - Management as a science, art of profession - Management & Administration - Roles of Management, Levels of Management, Development of Management Thought - early management approaches - Modern management approaches.

7 Hours

UNIT - 2

PLANNING: Nature, importance and purpose of planning process Objectives - Types of plans (Meaning Only) - Decision making Importance of planning - steps in planning & planning premises - Hierarchy of plans.

6 Hours

UNIT - 3

ORGANIZING AND STAFFING: Nature and purpose of organization Principles of organization - Types of organization - Departmentation Committees- Centralization Vs Decentralization of authority. and responsibility - Span of control - MBO and MBE (Meaning Only) Nature and importance of staffing-- :Process of Selection & Recruitment (in brief).

6 Hours

UNIT - 4

DIRECTING & CONTROLLING: Meaning and nature of directing Leadership styles, Motivation Theories, Communication - Meaning and importance - coordination, meaning and importance and Techniques of Co Ordination. Meaning and steps in controlling - Essentials of a sound control system - Methods of establishing control (in brief):

7 Hours

PART-B

ENTREPRENEURSHIP UNIT - 5

ENTREPRENEUR: Meaning of Entrepreneur; Evolution of .the Concept; Functions of an Entrepreneur, Types of Entrepreneur, Entrepreneur - an emerging. Class. Concept of Entrepreneurship - Evolution of Entrepreneurship, Development of Entrepreneurship; Stages in entrepreneurial process; **Role of entrepreneurs in Economic Development**; Entrepreneurship in India; Entrepreneurship - its Barriers.

6 Hours

UNIT - 6

SMALL SCALE INDUSTRIES: Definition; Characteristics; Need and rationale; Objectives; Scope; role of SSI in Economic Development. Advantages of SSI Steps to start and SSI - Government policy towards SSI; Different Policies of SSI; Government Support for SSI during 5 year plans. Impact of Liberalization, Privatization,



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Globalization on SSI Effect of **WTO/GA TT Supporting Agencies of Government for SSI**, Meaning, Nature of support; Objectives; Functions; Types of Help; Ancillary Industry and Tiny Industry (Definition Only)

7 Hours

UNIT - 7

INSTITUTIONAL SUPPORT: Different Schemes; TECKSOK; KIADB; KSSIDC; KSIMC; DIC Single Window Agency; SISI; NSIC; SIDBI; KSFC.

7 Hours

UNIT - 8

PREPARATION OF PROJECT: Meaning of Project; Project Identification; Project Selection; Project Report; Need and Significance of Report; Contents; Formulation; Guidelines by Planning Commission for Project report; Network Analysis; Errors of Project Report; Project Appraisal. Identification of business opportunities: Market Feasibility Study; Technical **Feasibility Study; Financial Feasibility Study & Social Feasibility Study.**

7 Hours

TEXT BOOKS:

1. Principles of Management – P. C.Tripathi, P.N. Reddy – Tata McGraw Hill,
2. Dynamics of Entrepreneurial Development & Management Vasant Desai - Himalaya Publishing House
- 24
3. Entrepreneurship Development – Poornima. M. Charantimath Small Business Enterprises - Pearson Education - 2006 (2 & 4).

REFERENCE BOOKS:

1. Management Fundamentals - Concepts, Application, Skill Development - RobersLusier - Thomson
2. Entrepreneurship Development - S.S.Khanka - S.Chand& Co.
3. Management - Stephen Robbins - Pearson Education/PHI - 17th Edition, 2003.



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ENVIRONMENTAL STUDIES

[As per Choice Based Credit System (CBCS) scheme] (Effective from the academic year
2015 -2016)

SEMESTER - I/II

Subject Code - 15CIV18/15CIV28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course Objectives:

1. To identify the major challenges in environmental issues and evaluate possible solutions.
2. Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
3. To analyze an overall impact of specific issues and develop environmental management plan.

Module - 1

Introduction: **Environment - Components of Environment Ecosystem:** Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & **Social Security.**

2 Hours

Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation **Environmental Impact Assessment**, Sustainable Development. 3 Hours

Module - 2

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. 2 Hours

Energy – Different types of energy, Conventional sources & Non-Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy. 3 Hours

Module -3

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. 2 Hours

Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management. 3 Hours

Module -4

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. 3 Hours

Solid Waste Management, E - Waste Management & Biomedical Waste Management - Sources, Characteristics & Disposal methods. 2 Hours

Module - 5



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Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. 2 Hours

Environmental Acts & Regulations, Role of government, Legal aspects, Role of Non-governmental Organizations (NGOs) , Environmental Education & Women Education.

3 Hours

Course Outcome:

Students will be able to,

1. Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
2. Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,
3. Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components
4. Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:

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2. R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
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4. Aloka Debi, "Environmental Science and Engineering", Universities Press (India) Pvt. Ltd. 2012.

Reference Books:

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B.E Electrical & Electronics Engineering

Course Structure for B.E- 2015 scheme Regulation

Electrical and Electronics Engineering

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2015-2016

I SEMESTER B.E./B.TECH.

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
							1	15MAT11	Engineering Maths-I		BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	15PHY12	Engineering Physics	BS	Physics	Basic Sc.	4 (T)	80	20	100	4
3	15CIV13	Elements of Civil Engg. & Mechanics	ES	Civil Engg.	Civil Engg.	4 (T)	80	20	100	4
4	15EME14	Elements of Mechanical Engg.	ES	Mech. Engg.	Mech. Engg.	4 (T)	80	20	100	4
5	15ELE15	Basic Electrical Engg.	ES	E & E	E & E	4 (T)	80	20	100	4
6	15WSL16	Workshop Practice	ES	Mech., Auto, IP, IEM, Mfg. Engg.	Mech. Engg.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
7	15PHYL17	Engg. Physics Lab	BS	Physics	Basic Sc.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
8	15CPH18	Constitution of India, Professional Ethics and Human Rights (CPH)	MNC	Humanities		2 (Tutorial)	40	10	50	--
9		Language (Kan.)	Mandatory Learning	Humanities		1 (T)	-	-	-	--
						29	600	150	750	24

Note: The Subjects Kannada and English are Audit Courses



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2015-2016

II SEMESTER B.E./B.TECH.

PHYSICS GROUP

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
1	15MAT21	Engineering Maths-II	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	15PHY22	Engineering Physics	BS	Physics	Basic Sc.	4 (T)	80	20	100	4
3	15CIV23	Elements of Civil Engg. & Mechanics	ES	Civil Engg.	Civil Engg.	4 (T)	80	20	100	4
4	15EME24	Elements of Mechanical Engg.	ES	Mech. Engg.	Mech. Engg.	4 (T)	80	20	100	4
5	15ELE25	Basic Electrical Engg.	ES	E & E	E & E	4 (T)	80	20	100	4
6	15WSL26	Workshop Practice	ES	Mech., Auto, IP, IEM, Mfg. Engg.	Mech. Engg.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
7	15PHYL27	Engg. Physics Lab	BS	Physics	Basic Sc.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
8	15CPH28	Constitution of India, Professional Ethics and Human Rights	MNC	Humanities		2 (Tutorial)	40	10	50	--
9		Language (Kan.)	Mandatory Learning	Humanities		1 (T)	-	-	-	--
						29	600	150	750	24

Note: The Subjects Kannada and English are Audit Courses



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I SEMESTER B.E./B.TECH.

CHEMISTRY GROUP

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
1	15MAT11	Engineering Maths-I	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	15CHE12	Engineering Chemistry	BS	Chemistry	Basic Sc.	4 (T)	80	20	100	4
3	15PCD13	Programming in C & Data Structures	ES	Any Engineering Department	CSE	4 (T)	80	20	100	4
4	15CED14	Computer Aided Engineering Drawing	ES	Mech./IP/Auto/ Mfg.Engg./ IEM	Mech. Engg.	6 (2I+ 4P)	80	20	100	4
5	15ELN15	Basic Electronics	ES	E & C / E & E / TC / IT	E & C	4 (T)	80	20	100	4
6	15CPL16	Computer Programming Lab	ES	Any Engineering Department	CSE	3(2 hrs lab+ 1 hr Tutorial)	80	20	100	2
7	15CHEL17	Engg. Chemistry Lab	BS	Chemistry	Basic Sci.	3(2 hrs lab+ 1 hr Tutorial)	80	20	100	2
8	15CIV18	Environmental Studies	MNC	Civil / Environmental	Civil	2 (Tutorial)	40	10	50	--
9		Language (Eng.)	Mandatory Learning	Humanities		1 (T)	-	-	-	--
Total						31	600	150	750	24

Note: The Subjects Kannada and English are Audit Courses

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2015-2016

II SEMESTER B.E./B.TECH.

CHEMISTRY GROUP

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
1	15MAT21	Engineering Maths-II	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	15CHE22	Engineering Chemistry	BS	Chemistry	Basic Sc.	4 (T)	80	20	100	4
3	15PCD23	Programming in C & Data Structures	ES	Any Engineering Department	CSE	4 (T)	80	20	100	4
4	15CED24	Computer Aided Engineering Drawing	ES	Mech./IP/Auto/ Mfg.Engg./ IEM	Mech. Engg.	6 (2I+ 4P)	80	20	100	4
5	15ELN25	Basic Electronics	ES	E & C / E & E / TC / IT	E & C	4 (T)	80	20	100	4
6	15CPL26	Computer Programming Lab	ES	Any Engineering Department	CSE	3(2 hrs lab+ 1 hr Tutorial)	80	20	100	2
7	15CHEL27	Engg. Chemistry Lab	BS	Chemistry	Basic Sc.	3(2 hrs lab+ 1 hr Tutorial)	80	20	100	2
8	15CIV28	Environmental Studies	MNC	Civil / Environmental	Civil	2 (Tutorial)	40	10	50	--
9		Language (Eng.)	Mandatory Learning	Humanities		1 (T)	-	-	-	--
Total						31	600	150	750	24



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CONSTITUTION OF INDIA, PROFESSIONAL ETHICS & HUMAN RIGHTS

Subject Code - 15CPH18/15CPH28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course objectives:

1. To provide basic information about Indian constitution.
2. To identify individual role and ethical responsibility towards society.
3. To understand human rights and its implications

Module 1

Introduction to the Constitution of India, The Making of the Constitution and Salient features of the Constitution. 2 Hours Preamble to the Indian Constitution **Fundamental Rights & its limitations. 3 Hours**

Module 2

Directive Principles of State Policy & Relevance of Directive Principles State Policy Fundamental Duties. 2 Hours Union Executives – President, Prime Minister Parliament Supreme Court of India. 3 Hours

Module 3

State Executives – Governor Chief Minister, State Legislature High Court of State. 2 Hours Electoral Process in India, Amendment Procedures, 42nd, 44th, 74th, 76th, 86th & 91st Amendments. 3 Hours

Module 4

Special Provision for SC & ST Special Provision for Women, Children & Backward Classes Emergency Provisions. Human Rights –Meaning and Definitions, Legislation Specific Themes in Human Rights- Working of National Human Rights Commission in India 3 Hours

Powers and functions of Municipalities, Panchyats and Co - Operative Societies. 2 Hours

Module 5

Scope & Aims of Engineering Ethics, Responsibility of Engineers Impediments to Responsibility. 2 Hours Risks, Safety and liability of Engineers, Honesty, Integrity & Reliability in Engineering. 3 Hours

Course outcomes:

After study of the course, the students are able to

- Have general knowledge and legal literacy and thereby to take up competitive examinations
- Understand state and central policies, fundamental duties
- Understand Electoral Process, special provisions
- Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, and
- Understand Engineering ethics and responsibilities of Engineers.
- Have an awareness about basic human rights in India

Text Books:



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1. Durga Das Basu: "Introduction to the Constitution on India", (Students Edn.) Prentice –Hall EEE, 19th / 20th Edn., 2001

2. Charles E. Haries, Michael S Pritchard and Michael J. Robins "Engineering Ethics" Thompson Asia, 2003-08-05.

Reference Books:

1. M.V.Pylee, "An Introduction to Constitution of India", Vikas Publishing, 2002.

2. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, "Engineering Ethics", Prentice –Hall of India Pvt. Ltd. New Delhi, 2004

3. Brij Kishore Sharma, "Introduction to the Constitution of India", PHI Learning Pvt. Ltd., New Delhi, 2011.

4. Latest Publications of Indian Institute of Human Rights, New Delhi.



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ENVIRONMENTAL STUDIES

[As per Choice Based Credit System (CBCS) scheme] (Effective from the academic year
2015 -2016)

SEMESTER - I/II

Subject Code - 15CIV18/15CIV28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course Objectives:

1. To identify the major challenges in environmental issues and evaluate possible solutions.
2. Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
3. To analyze an overall impact of specific issues and develop environmental management plan.

Module - 1

Introduction: **Environment - Components of Environment Ecosystem**: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & **Social Security**.

2 Hours

Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation **Environmental Impact Assessment**, Sustainable Development. 3 Hours

Module - 2

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. 2 Hours

Energy – Different types of energy, Conventional sources & Non-Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy. 3 Hours

Module -3

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. 2 Hours

Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management. 3 Hours

Module -4

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. 3 Hours

Solid Waste Management, E - Waste Management & Biomedical Waste Management - Sources, Characteristics & Disposal methods. 2 Hours

Module - 5

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. 2 Hours

Environmental Acts & Regulations, Role of government, Legal aspects, Role of Non-governmental Organizations (NGOs) , Environmental Education & Women Education.

3 Hours



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Course Outcome:

Students will be able to,

1. Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
2. Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,
3. Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components
4. Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:

1. Benny Joseph (2005), "Environmental Studies", Tata McGraw – Hill Publishing Company Limited.
2. R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
3. R Rajagopalan, "Environmental Studies – From Crisis to Cure", Oxford University Press, 2005,
4. Aloka Debi, "Environmental Science and Engineering", Universities Press (India) Pvt. Ltd. 2012.

Reference Books:

1. Raman Sivakumar, "Principals of Environmental Science and Engineering", Second Edition, Cengage learning Singapore, 2005
2. P. Meenakshi, "Elements of Environmental Science and Engineering", Prentice Hall of India Private Limited, New Delhi, 2006
3. S.M. Prakash, "Environmental Studies", Elite Publishers Mangalore, 2007
4. Erach Bharucha, "Text Book of Environmental Studies", for UGC, University press, 2005
5. G.Tyler Miller Jr., "Environmental Science – working with the Earth", Tenth Edition, Thomson Brooks /Cole, 2004
6. G.Tyler Miller Jr., "Environmental Science – working with the Earth", Eleventh Edition, Thomson Brooks /Cole, 2006
7. Dr.Pratiba Sing, Dr.AnoopSingh and Dr.Piyush Malaviya, "Text Book of Environmental and Ecology", Acme Learning Pvt. Ltd. New Delhi.



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

SCHEME OF TEACHING AND EXAMINATION - 2015-16

B.E. ELECTRICAL AND ELECTRONICS ENGINEERING

CHOICE BASED CREDIT SYSTEM (CBCS)

V SEMESTER												
Sl. No	Subject Code	Subject (Course)	Title	Teaching Department	Teaching Hours /Week		Examination				Credits	
					Theory	Practical/ Drawing	Duration in hours	Theory/ Practical Marks	L.A. Marks	Total Marks		
1	15EE51	Core Subject	Management and Entrepreneurship	EEE	04	--	03	80	20	100	4	
2	15EE52	Core Subject	Microcontroller	EEE	04	--	03	80	20	100	4	
3	15EE53	Core Subject	Power Electronics	EEE	04	--	03	80	20	100	4	
4	15EE54	Core Subject	Signals and Systems	EEE	04	--	03	80	20	100	4	
5	15EE55X	Professional Elective	Professional Elective – I	EEE	03	--	03	80	20	100	3	
6	15EE56Y	Open Elective	Open Elective - I	EEE	03	--	03	80	20	100	3	
7	15EEL57	Laboratory	Microcontroller Laboratory	EEE	01-Hour Instruction 02-Hour Practical		03	80	20	100	2	
8	15EEL58	Laboratory	Power Electronics Laboratory	EEE	01-Hour Instruction 02-Hour Practical		03	80	20	100	2	
TOTAL					Theory:22hours Practical: 06 hours		24	160	640	800	26	
Elective												
Professional Elective				Open Elective^{***}								
Offered by the Department of Electrical and Electronics Engineering												
Courses under Code 15EE55X	Title			Courses under Code 15EE55X	Title							
15EE551	Introduction to Nuclear Power			15EE561	Electronic Communication systems							
15EE552	Electrical Engineering Materials			15EE562	Programmable Logic controllers							
15EE553	Estimating and Costing			15EE563	Renewable Energy Systems							
15EE554	Special Electrical Machines			15EE564	Business Communication							



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MANAGEMENT AND ENTREPRENEURSHIP (Core Course):

Module-1 Management: Definition, Importance – Nature and Characteristics of Management, Management Functions, Roles of Manager, Levels of Management, Managerial Skills, Management & Administration, Management as a Science, Art & Profession. Planning: Nature, Importance and Purpose Of Planning, Types of Plans, Steps in Planning, Limitations of Planning, Decision Making – Meaning, Types of Decisions- Steps in Decision Making.

Teaching Hours 10

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L4 – Analysing.

Module-2 Organizing and Staffing: Meaning, Nature and Characteristics of Organization – Process of Organization, Principles of Organization, Departmentalization, Committees – meaning, Types of Committees, Centralization Versus Decentralization of Authority and Responsibility, Span of Control (Definition only), Nature and Importance of Staffing, Process of Selection and Recruitment. Directing and Controlling: Meaning and Nature of Directing-Leadership Styles, Motivation Theories Communication – Meaning and Importance, Coordination-Meaning and Importance, Techniques of Coordination. Controlling – Meaning, Steps in Controlling.

Teaching Hours 10

Revised Bloom's Taxonomy Level L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-3 **Social Responsibilities of Business**: Meaning of Social Responsibility, Social Responsibilities of Business towards Different Groups, Social Audit, Business and Corporate Governance. Entrepreneurship: Definition of Entrepreneur, Importance of Entrepreneurship, concepts of Entrepreneurship, Characteristics of successful Entrepreneur, Classification of Entrepreneurs, Intrapreneur – An Emerging Class, Comparison between Entrepreneur and Intrapreneur, Myths of Entrepreneurship, Entrepreneurial Development models, Entrepreneurial development cycle, **Problems faced by Entrepreneurs and capacity building for Entrepreneurship**.

Teaching Hours 10

Revised Bloom's Taxonomy Level L3 – Applying.

Module-4 Teaching Hours Modern Small Business Enterprises: Role of Small Scale Industries, Concepts and definitions of SSI Enterprises, Government policy and development of the Small Scale sector in India, Growth and Performance of Small Scale Industries in India, Sickness in SSI sector, Problems for Small Scale Industries, Impact of Globalization on SSI, Impact of WTO/GATT on SSIs, Ancillary Industry and Tiny Industry (Definition only). Institutional Support for Business Enterprises: Introduction, **Policies & Schemes of Central-Level Institutions, State-Level Institutions**.

Teaching Hours 10

Revised Bloom's Taxonomy Level L3 – Applying.

Module-5 Project Management: Meaning of Project, Project Objectives & Characteristics, Project Identification Meaning & Importance; Project Life Cycle, Project Scheduling, Capital Budgeting, Generating an Investment Project Proposal, Project Report-Need and Significance of Report, Contents, Formulation, Project



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Analysis-Market, Technical, Financial, Economic, Ecological, Project Evaluation and Selection, Project Financing, Project Implementation Phase, **Human & Administrative aspects of Project Management**, Prerequisites for Successful Project Implementation. New Control Techniques- PERT and CPM, Steps involved in developing the network, Uses and Limitations of PERT and CPM .

Teaching Hours 10

Revised Bloom's Taxonomy Level L3 – Applying, L4 – Analysing. L2 – Understanding, L4 – Analysing.

ELECTRICAL ESTIMATION AND COSTING (Professional Elective)

Module-1 Principles of Estimation: Introduction to Estimation and Costing, Electrical Schedule, Catalogues, Market Survey and Source Selection, Recording of Estimates, Determination of Required Quantity of Material, Labour Conditions, Determination of Cost Material and Labour, Contingencies, Overhead Charges, Profit, Purchase System, Purchase Enquiry and Selection of Appropriate Purchase Mode, Comparative Statement, Purchase Orders, Payment Of Bills, Tender Form, General Idea about IE Rule, Indian Electricity(IE) Act and IE Rules -29,30,45,46,47,50,51,54,55,77 and79.

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding.

Module-2 Wiring: Introduction, Distribution of energy in a Building, PVC Casing and Capping, Conduit Wiring, Desirabilities of Wiring. Types of cables used in Internal Wiring, Multi Strand Cables, Voltage Grading and Specification of Cables Wiring (continued): Main Switch and Distribution Board, Conduits and its accessories and Fittings. Lighting Accessories and Fittings, Types of Fuses, Size of Fuse, Fuse Units, Earthing Conductor. Internal Wiring: General rules for wiring, Design of Lighting Points (Refer to Seventh Chapter of the Textbook), Number of Points, Determination of Total Load, Number of Sub –Circuits, Ratings Main Switch and Distribution Board and Size of Conductor. Current Density, Layout.

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-3 Service Mains: Introduction, Types, Estimation of Underground and Overhead Service Connections. Design and Estimation of Power Circuits: Introduction, Important Considerations Regarding Motor Installation Wiring, Input Power, Input Current to Motors, Rating of Cables, Rating of Fuse, Size of Condit, Distribution Board Main Switch and Starter.

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-4 Estimation of Overhead Transmission and Distribution Lines: (Review of Line Supports, Conductor Materials, Size of Conductor for Overhead Transmission Line, Types of Insulators)[No Question Shall be Set From the Review Portion]. Cross Arms, Pole Brackets and Clamps, Guys and Stays, Conductors Configuration Spacing and Clearances, Span Lengths, Lightning Arrestors, Phase Plates, Danger Plates, Anti Climbing Devices, Bird



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Guards, Beads of Jumpers, Muffs, Points to be Considered at the Time of Erection of Overhead Lines, Erection of Supports, Setting of Stays, Fixing of Cross Arms, Fixing of Insulators, Conductor Erection. Repairing and Jointing of Conductors, Dead End Clamps, Positioning of Conductors and Attachment to Insulators, Jumpers, Tee-Offs, Earthing of Transmission Lines, Guarding of Overhead Lines, Clearances of Conductor From Ground, Spacing Between Conductors, Important Specifications.

Teaching Hours: 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing

Module-5 Estimation of Substations: Main Electrical connection, Graphical Symbols for Various Types of Apparatus and Circuit Elements on Substation main Connection Diagram, Single Line Diagram of Typical Substations, Equipment for Substation, Substation Auxiliaries Supply, Substation Earthing.

Teaching Hours: 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding.

RENEWABLE ENERGY RESOURCES(Open Elective)

Module-1 Introduction: Causes of Energy Scarcity, Solution to Energy Scarcity, Factors Affecting Energy Resource Development, Energy Resources and Classification, Renewable Energy – Worldwide Renewable Energy Availability, Renewable Energy in India. Energy from Sun: Sun- earth Geometric Relationship, Layer of the Sun, Earth – Sun Angles and their Relationships, Solar Energy Reaching the Earth's Surface, Solar Thermal Energy Applications.

Teaching Hours: 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying.

Module-2 Solar Thermal Energy Collectors: Types of Solar Collectors, Configurations of Certain Practical Solar Thermal Collectors, Material Aspects of Solar Collectors, Concentrating Collectors, Parabolic Dish – Stirling Engine System, Working of Stirling or Brayton Heat Engine, Solar Collector Systems into Building Services, Solar Water Heating Systems, Passive Solar Water Heating Systems, Applications of Solar Water Heating Systems, Active Solar Space Cooling, Solar Air Heating, Solar Dryers, Crop Drying, Space Cooling, Solar Cookers, Solar pond. Solar Cells: Components of Solar Cell System, Elements of Silicon Solar Cell, Solar Cell materials, Practical Solar Cells, I – V Characteristics of Solar Cells, Efficiency of Solar Cells, Photovoltaic Panels, Applications of Solar Cell Systems

Teaching Hours: 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-3 Hydrogen Energy: Benefits of Hydrogen Energy, Hydrogen Production Technologies, Hydrogen Energy Storage, Use of Hydrogen Energy, Advantages and Disadvantages of Hydrogen Energy, Problems Associated with Hydrogen Energy. Wind Energy: Windmills, Wind Turbines, Wind Resources, Wind Turbine Site Selection. Geothermal Energy: Geothermal Systems, Classifications, Geothermal Resource Utilization, Resource Exploration, Geothermal Based Electric Power Generation, Associated Problems, environmental Effects. Solid waste and Agricultural Refuse: Waste is Wealth, Key Issues, Waste Recovery Management Scheme, Advantages and Disadvantages of Waste Recycling, Sources and Types of Waste, Recycling of Plastics.



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Teaching Hours: 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-4 Biomass Energy: Biomass Production, Energy Plantation, Biomass Gasification, Theory of Gasification, Gasifier and Their Classifications, Chemistry of Reaction Process in Gasification, Updraft, Downdraft and Cross-draft Gasifiers, Fluidized Bed Gasification, Use of Biomass Gasifier, Gasifier Biomass Feed Characteristics, Applications of Biomass Gasifier, Cooling and Cleaning of Gasifiers. Biogas Energy: Introduction, Biogas and its Composition, Anaerobic Digestion, Biogas Production, Benefits of Biogas, Factors Affecting the Selection of a Particular Model of a Biogas Plant, Biogas Plant Feeds and their Characteristics. Tidal Energy: Introduction, Tidal Energy Resource, Tidal Energy Availability, Tidal Power Generation in India, Leading Country in Tidal Power Plant Installation, Energy Availability in Tides, Tidal Power Basin, Turbines for Tidal Power, Advantages and Disadvantages of Tidal Power, Problems Faced in Exploiting Tidal Energy.

Teaching Hours: 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-5 Sea Wave Energy: Introduction, Motion in the sea Waves, Power Associated with Sea Waves, Wave Energy Availability, **Devices for Harnessing Wave Energy**, Advantages and Disadvantages of Wave Power. Ocean Thermal Energy: Introduction, Principles of Ocean Thermal Energy Conversion (OTEC), Ocean Thermal Energy Conversion plants, Basic Rankine Cycle and its Working, Closed Cycle, Open Cycle and Hybrid Cycle, Carnot Cycle, Application of OTEC in Addition to Produce Electricity, Advantages, Disadvantages and Benefits of OTEC.

Teaching Hours: 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying.

BUSINESS COMMUNICATION (Open Elective)

Module-1 Analyse Communication Purpose and Audience: How to Learn, How Engineers Are Persuaded, Speak or Write: Select the Right Communication Channel, Consider Your Communication Purpose and Audience. Projecting the Image of the Engineering Profession: Overcome Anxiety, Primary Impact: Nonverbal Body Language, Secondary Impact: Control Vocal Quality, Volume, And Pace, Optimize Presentation **Environment**. Presentation Aids: Engineering: The Real da Vinci Code, Speaking Visually—Guidelines for Using Presentation Aids, Choosing among Options, Creating Visuals with Impact, Delivering with Visuals. ■

Teaching Hours :08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying.

Module-2 Organize Your Talk: Planning Your Talk, Conducting an Audience Analysis: 39 Questions, Organizing Your Talking Seven Easy Stages, Getting Attention and Keeping Interest, Five Minutes Early – Time Management for Your Presentation, Delivering Your Introduction, Presenting Your Conclusion. Handling Audience Response: Create the **Environment**, Handle with C.A.R.E, Deal with Hostile Questions, Deal with Other Types of Questions, Control the Q&A Session, Thinking on Your Feet. Organizing for Emphasis: Make our Bottom Line the Top Line, Purpose Statement and Blueprints, Open Long Reports with a Summary, Use More Topic Sentences, Develop Headings, Structure Vertical Lists.

Teaching Hours :08



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Ph: 080-61754601/602, Fax: 080 - 25730551

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Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-3 Write As If Talking to Your Engineering Associates: Use Personal Pronouns, Rely on Everyday Words, Use Short Spoken Transitions, Keep Sentences Short, Reach Out to Your Engineering Readers by Asking Questions, 5Whys-A Technique for Engineering Problem Solving. Trim Your Expressions: Introduction, Prune Wordy Expressions, Use Strong Verbs, Cut Doublings and Noun Strings, Eliminate Unnecessary Determiners and Modifiers, Change Phrases into Single Words, Change Unnecessary Clauses into Phrases or Single Words, Avoid Over using "Itis" and "Thereis", Eight Steps for Lean Writing. Write Actively—Engineering is about Actions: Active Voice: "Albert Einstein Wrote the Theory of Relativity", How to Recognize the Passive Voice, How to Write Actively – Use Three Cures, Write Passively for Good Reasons Only, Theory of Completed Staff Work.

Teaching Hours :08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-4 Every day Engineering Communications -E-Mails, Phone Calls, and Memos: Effective E-mail Writing: Seven Things to Remember, How to Be Productive on the Phone, "Memos Solve Problems". Visuals for Engineering Presentation - Engineers Think in Pictures: Optimize Slide Layout, Display Engineering Data Effectively, How to Develop Effective Graphics. Write Winning Grant Proposals: Know Your Audience, Understand Your Goal and Marketing Strategy, Select the Correct Writing Style, Organize Your Proposal around the FourPs, A Brief Checklist before Submitting Your Proposal.

Teaching Hours :08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding.

Module-5 How to Effectively Prepare Engineering Reports: Writing an Effective Progress Report, Develop Informative Design Reports. Listening Interactive Communication about Engineering Risk: **Listening – A Forgotten Risk Communication Skill Listening – Harder Than Speaking and Writing**, How to Listen to Voice of Customers about Risk, Listen Attentively: Understanding What Drives Perceived Risk, Thirteen Questions about Risk Communication.

Teaching Hours :08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding.



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

SCHEME OF TEACHING AND EXAMINATION - 2015-16

B.E. ELECTRICAL AND ELECTRONICS ENGINEERING

CHOICE BASED CREDIT SYSTEM (CBCS)

VI SEMESTER											
Sl. No	Subject Code	Subject (Course)	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	Theory/ Practical Marks	L.A. Marks	Total Marks	
1	15EE61	Core Subject	Control Systems	EEE	04	--	03	80	20	100	4
2	15EE62	Core Subject	Power System Analysis – 1	EEE	04	--	03	80	20	100	4
3	15EE63	Core Subject	Digital Signal Processing	EEE	04	--	03	80	20	100	4
4	15EE64	Core Subject	Electrical Machine Design	EEE	04	--	03	80	20	100	4
5	15EE65X	Professional Elective	Professional Elective – II	EEE	03	--	03	80	20	100	3
6	15EE66Y	Open Elective	Open Elective - II	EEE	03	--	03	80	20	100	3
7	15EEL67	Laboratory	Control System Laboratory	EEE	01-Hour Instruction 02-Hour Practical		03	80	20	100	2
8	15EEL68	Laboratory	Digital Signal Processing Laboratory	EEE	01-Hour Instruction 02-Hour Practical		03	80	20	100	2
TOTAL					Theory:22 hours Practical: 06 hours		24	160	640	800	26
Elective											
Professional Elective				Open Elective^{***} Offered by the Department of Electrical and Electronics Engineering							
Courses under Code 15EE65X		Title		Courses under Code 15EE66Y		Title					
15EE651		Computer Aided Electrical Drawing		15EE661		Artificial Neural Networks and Fuzzy logic					
15EE652		Advanced Power Electronics		15EE662		Sensors and Transducers					
15EE653		Energy Audit and Demand side Management		15EE663		Batteries and Fuel Cells for Commercial, Military and Space Applications					
15EE654		Solar and Wind Energy		15EE664		Industrial Servo Control Systems					

ENERGY AUDIT AND DEMAND SIDE MANAGEMENT (Professional Elective):

Module-1 **Energy Scenarios: Energy Conservation**, Energy Audit, Energy Scenarios, Energy Consumption, Energy Security, Energy Strategy, Clean Development Mechanism. Types of Energy Audits and Energy-Audit Methodology: Definition of Energy Audit, Place of Audit, Energy – Audit Methodology, Financial Analysis, Sensitivity Analysis, Project Financing Options, Energy Monitoring and Training. Survey Instrumentation: Electrical Measurement, Thermal Measurement, Light Measurement, Speed Measurement, Data Logger and Data – Acquisition System, Thermal Basis.

Teaching Hours : 08



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Revised Bloom's Taxonomy Level L1 - Remembering, L2 - Understanding, L3 - Applying, L4 - Analysing.

Module-2 Energy Audit of Boilers: Classification of Boilers, Parts of Boiler, Efficiency of a Boiler, Role of excess Air in Boiler Efficiency, Energy Saving Methods. Energy Audit of Furnaces: Parts of a Furnace, classification of Furnaces, Energy saving Measures in Furnaces, Furnace Efficiency.

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 - Remembering, L2 - Understanding, L3 - Applying, L4 - Analysing ,

Module-3 Energy Audit of HVAC Systems: Introduction to HVAC, Components of Air – Conditioning System, Types of Air – Conditioning Systems, Human Comfort Zone and Psychrometry, Vapour – Compression Refrigeration Cycle, Energy Use Indices, **Impact of Refrigerants on Environment and Global Warming, Energy** – Saving Measures in HVAC, Star Rating and Labelling by BEE. Electrical-Load Management: Electrical Basics, Electrical Load Management, Variable- Frequency Drives, Harmonics and its Effects, **Electricity Tariff**, Power Factor, Transmission and Distribution Losses.

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 - Remembering, L2 - Understanding, L3 - Applying, L4 - Analysing

Module-4 Energy Audit of Motors: Classification of Motors, Parameters related to Motors, Efficiency of a Motor, Energy Conservation in Motors, BEE Star Rating and Labelling. Energy Audit of Lighting Systems: Fundamentals of Lighting, Different Lighting Systems, Ballasts, Fixtures (Luminaries), Reflectors, Lenses and Louvres, Lighting Control Systems, Lighting System Audit, Energy Saving Opportunities.

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 - Remembering, L2 - Understanding, L3 - Applying, L4 - Analysing

Module-5 Teaching Hours Energy Audit Applied to Buildings: Energy – Saving Measures in New Buildings, Water Audit, Method of Audit, General Energy – Savings Tips Applicable to New as well as Existing Buildings. Demand side Management: Scope of DSM, Evolution of DSM concept, DSM planning and Implementation, Load management as a DSM strategy, Applications of Load Control, **End use energy conservation**, Tariff options for DSM, customer acceptance, implementation issues, Implementation strategies, DSM and Environment. Energy Conservation: Motivation of energy conservation, **Principles of Energy conservation**, **Energy conservation planning**, Energy conservation in industries, EC in SSI, EC in electrical generation, transmission and distribution, EC in household and commercial sectors, EC in transport, EC in agriculture, EC legislation.

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 - Remembering, L2 - Understanding, L3 - Applying, L4 – Analysing

SOLAR AND WIND ENERGY (Professional Elective):



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Module-1 Fundamentals of Energy Science and Technology: Introduction, Energy, **Economy and Social Development**, Classification of Energy Sources, Importance of Non-conventional Energy Sources, Salient features of **Non-conventional Energy Sources, World Energy Status, Energy Status in India**. Energy Conservation and Efficiency: Introduction, Important Terms and Definitions, Important Aspects of Energy Conservation, Global Efforts, Achievements and Future Planning, Energy Conservation/Efficiency Scenario in India, **Energy Audit, Energy Conservation Opportunities**. Energy Storage: Introduction, Necessity of Energy Storage, Specifications of Energy Storage Devices. Solar Energy-Basic Concepts: Introduction, **The Sun as Source of Energy, The Earth, Sun, Earth Radiation Spectrum, Extraterrestrial and Terrestrial Radiations**, Spectral Power Distribution of Solar Radiation, Depletion of Solar Radiation.

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying.

Module-2 Solar Energy-Basic Concepts (continued): Measurement of Solar Radiation, Solar Radiation Data, Solar Time, Solar Radiation Geometry, Solar Day Length, Extraterrestrial Radiation on Horizontal Surface, Empirical Equations for Estimating Terrestrial Solar Radiation on Horizontal Surface, Solar Radiation on Inclined Plane Surface. Solar Thermal Systems: Introduction, Solar Collectors, Solar Water Heater, Solar Passive Space Heating and Cooling Systems, Solar Industrial Heating Systems, Solar Refrigeration and Air Conditioning Systems, Solar Cookers.

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-3 Teaching Hours Solar Photovoltaic Systems: Introduction, Solar Cell Fundamentals, Solar Cell Characteristics, Solar Cell Classification, Solar Cell Technologies, Solar Cell, Module, and Array Construction, Maximizing the Solar PV Output and Load Matching. Maximum Power Point Tracker. Balance of System Components, Solar PV Systems, Solar PV Applications

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-4 Wind Energy: Introduction, Basic Principles of Wind Energy Conversion, History of Wind Energy, Wind Energy Scenario – World and India. The Nature of the Wind, The Power in the Wind, Forces on the Blades, Wind Energy Conversion, Wind Data and Energy Estimation, Site Selection Considerations Wind energy systems: **Environment and Economics Environmental benefits and problems** of wind energy, Economics of wind energy, Factors influence the cost of energy generation, machine parameters, Life cycle cost analysis

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.



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Module-5 Basic Components of a Wind Energy Conversion(WEC) System: Classification of WEC systems, Advantages and Disadvantages of WECS, Types of Wind Machines (Wind Energy Collectors), Analysis of Aerodynamic Forces Acting on the Blade, Performance of Windmachines, Generating Systems, **Energy Storage**, Applications of Wind Energy, **Environmental Aspects**

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying.

BATTERIES AND FUEL CELLS FOR COMMERCIAL, MILITARY AND SPACE APPLICATIONS (Open Elective):

Module-1 Current Status of Rechargeable Batteries and Fuel Cells: Rechargeable Batteries, Fundamental Aspects of a Rechargeable Battery, Rechargeable Batteries Irrespective of Power Capability, Rechargeable Batteries for **Commercial and Military Applications**, Batteries for Low-Power Applications, Fuel Cells.

Teaching Hours 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying.

Module-2 Batteries for Aerospace and Communications Satellites: Introduction, On-board Electrical Power System, Battery Power Requirements and Associated Critical Components, Cost-Effective Design Criterion for Battery-Type Power Systems for Spacecraft, Spacecraft Power System Reliability, Ideal Batteries for Aerospace and Communications Satellites, Performance Capabilities and Battery Power Requirements for the Latest Commercial **and Military Satellite Systems**, **Military Satellites for Communications**, Surveillance, Reconnaissance, and Target Tracking, Batteries Best Suited to Power Satellite Communications Satellites

Teaching Hours 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-3 Fuel Cell Technology:Introduction, Performance Capabilities of Fuel Cells Based on Electrolytes, Low-Temperature Fuel Cells Using Various Electrolytes, Fuel Cells Using a Combination of Fuels, Fuel Cell Designs for Multiple Applications, Ion-Exchange Membrane Fuel Cells, Potential Applications of Fuel Cells, Fuel Cells for Aircraft Applications, Fuel Cells for **Commercial, Military, and Space Applications**, Fuel Cells Capable of Operating in Ultra-**High-Temperature Environments**, Fuel Cell Requirements for Electric Power Plant Applications

Teaching Hours 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-4 Batteries for Electric and Hybrid Vehicles:Introduction, Chronological Development History of Early Electric Vehicles and Their Performance Parameters, Electric and Hybrid Electric Vehicles Batteries for Electric and Hybrid Vehicles (continued):Developed Earlier by Various Companies and Their Performance Specifications, Development History of the Latest Electric and Hybrid Electric Vehicle Types and Their Performance Capabilities and Limitations, Performance Requirements of Various Rechargeable Batteries, Materials for Rechargeable Batteries, Critical Role of Rare **Earth Materials** in the Development of EVs and HEVs.



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Teaching Hours 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding.

Module-5 Low-Power Rechargeable Batteries for Commercial, Space, and Medical Applications: Introduction, Low-Power Battery Configurations, Characteristics, Batteries for Miniaturized Electronic System Applications, for Embedded-System Applications, Batteries for Medical Applications, Selection Criteria for Primary and Secondary (Rechargeable) Batteries for Specific Applications.

Teaching Hours 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding.



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B.E Mechanical Engineering

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2015-2016

I SEMESTER B.E./B.TECH.

PHYSICS GROUP

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
1	15MAT11	Engineering Maths-I	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	15PHY12	Engineering Physics	BS	Physics	Basic Sc.	4 (T)	80	20	100	4
3	15CIV13	Elements of Civil Engg. & Mechanics	ES	Civil Engg.	Civil Engg.	4 (T)	80	20	100	4
4	15EME14	Elements of Mechanical Engg.	ES	Mech. Engg.	Mech. Engg.	4 (T)	80	20	100	4
5	15ELE15	Basic Electrical Engg.	ES	E & E	E & E	4 (T)	80	20	100	4
6	15WSL16	Workshop Practice	ES	Mech., Auto, IP, IEM, Mfg. Engg.	Mech. Engg.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
7	15PHYL17	Engg. Physics Lab	BS	Physics	Basic Sc.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
8	15CPH18	Constitution of India, Professional Ethics and Human Rights (CPH)	MNC	Humanities		2 (Tutorial)	40	10	50	--
9		Language (Kan.)	Mandatory Learning	Humanities		1 (T)	-	-	-	--
						29	600	150	750	24

Note: The Subjects Kannada and English are Audit Courses



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II SEMESTER B.E./B.TECH.

PHYSICS GROUP

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
1	15MAT21	Engineering Maths-II	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	15PHY22	Engineering Physics	BS	Physics	Basic Sc.	4 (T)	80	20	100	4
3	15CIV23	Elements of Civil Engg. & Mechanics	ES	Civil Engg.	Civil Engg.	4 (T)	80	20	100	4
4	15EME24	Elements of Mechanical Engg.	ES	Mech. Engg.	Mech. Engg.	4 (T)	80	20	100	4
5	15ELE25	Basic Electrical Engg.	ES	E & E	E & E	4 (T)	80	20	100	4
6	15WSL26	Workshop Practice	ES	Mech., Auto, IP, IEM, Mfg. Engg.	Mech. Engg.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
7	15PHYL27	Engg. Physics Lab	BS	Physics	Basic Sc.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
8	15CPH28	Constitution of India, Professional Ethics and Human Rights	MNC	Humanities		2 (Tutorial)	40	10	50	--
9		Language (Kan.)	Mandatory Learning	Humanities		1 (T)	-	-	-	--
						29	600	150	750	24

Note: The Subjects Kannada and English are Audit Courses



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I SEMESTER B.E./B.TECH.

CHEMISTRY GROUP

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
1	15MAT11	Engineering Maths-I	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	15CHE12	Engineering Chemistry	BS	Chemistry	Basic Sc.	4 (T)	80	20	100	4
3	15PCD13	Programming in C & Data Structures	ES	Any Engineering Department	CSE	4 (T)	80	20	100	4
4	15CED14	Computer Aided Engineering Drawing	ES	Mech./IP/Auto/ Mfg.Engg./ IEM	Mech. Engg.	6 (2I+ 4P)	80	20	100	4
5	15ELN15	Basic Electronics	ES	E & C / E & E / TC / IT	E & C	4 (T)	80	20	100	4
6	15CPL16	Computer Programming Lab	ES	Any Engineering Department	CSE	3(2 hrs lab+ 1 hr Tutorial)	80	20	100	2
7	15CHEL17	Engg. Chemistry Lab	BS	Chemistry	Basic Sci.	3(2 hrs lab+ 1 hr Tutorial)	80	20	100	2
8	15CIV18	Environmental Studies	MNC	Civil / Environmental	Civil	2 (Tutorial)	40	10	50	--
9		Language (Eng.)	Mandatory Learning	Humanities		1 (T)	-	-	-	--
Total						31	600	150	750	24

Note: The Subjects Kannada and English are Audit Courses

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2015-2016

II SEMESTER B.E./B.TECH.

CHEMISTRY GROUP

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
1	15MAT21	Engineering Maths-II	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	15CHE22	Engineering Chemistry	BS	Chemistry	Basic Sc.	4 (T)	80	20	100	4
3	15PCD23	Programming in C & Data Structures	ES	Any Engineering Department	CSE	4 (T)	80	20	100	4
4	15CED24	Computer Aided Engineering Drawing	ES	Mech./IP/Auto/ Mfg.Engg./ IEM	Mech. Engg.	6 (2I+ 4P)	80	20	100	4
5	15ELN25	Basic Electronics	ES	E & C / E & E / TC / IT	E & C	4 (T)	80	20	100	4
6	15CPL26	Computer Programming Lab	ES	Any Engineering Department	CSE	3(2 hrs lab+ 1 hr Tutorial)	80	20	100	2
7	15CHEL27	Engg. Chemistry Lab	BS	Chemistry	Basic Sc.	3(2 hrs lab+ 1 hr Tutorial)	80	20	100	2
8	15CIV28	Environmental Studies	MNC	Civil / Environmental	Civil	2 (Tutorial)	40	10	50	--
9		Language (Eng.)	Mandatory Learning	Humanities		1 (T)	-	-	-	--
Total						31	600	150	750	24



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CONSTITUTION OF INDIA, PROFESSIONAL ETHICS & HUMAN RIGHTS

Subject Code - 15CPH18/15CPH28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course objectives:

1. To provide basic information about Indian constitution.
2. To identify individual role and ethical responsibility towards society.
3. To understand human rights and its implications

Module 1

Introduction to the Constitution of India, The Making of the Constitution and Salient features of the Constitution. 2 Hours Preamble to the Indian Constitution **Fundamental Rights & its limitations. 3 Hours**

Module 2

Directive Principles of State Policy & Relevance of Directive Principles State Policy Fundamental Duties. 2 Hours Union Executives – President, Prime Minister Parliament Supreme Court of India. 3 Hours

Module 3

State Executives – Governor Chief Minister, State Legislature High Court of State. 2 Hours Electoral Process in India, Amendment Procedures, 42nd, 44th, 74th, 76th, 86th & 91st Amendments. 3 Hours

Module 4

Special Provision for SC & ST Special Provision for Women, Children & Backward Classes Emergency Provisions. Human Rights –Meaning and Definitions, Legislation Specific Themes in Human Rights- Working of National Human Rights Commission in India 3 Hours

Powers and functions of Municipalities, Panchyats and Co - Operative Societies. 2 Hours

Module 5

Scope & Aims of Engineering Ethics, Responsibility of Engineers Impediments to Responsibility. 2 Hours Risks, Safety and liability of Engineers, Honesty, Integrity & Reliability in Engineering. 3 Hours

Course outcomes:

After study of the course, the students are able to

- Have general knowledge and legal literacy and thereby to take up competitive examinations
- Understand state and central policies, fundamental duties
- Understand Electoral Process, special provisions
- Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, and
- Understand Engineering ethics and responsibilities of Engineers.
- Have an awareness about basic human rights in India

Text Books:

1. Durga Das Basu: "Introduction to the Constitution on India", (Students Edn.) Prentice –Hall EEE, 19th / 20th Edn., 2001
2. Charles E. Haries, Michael S Pritchard and Michael J. Robins "Engineering Ethics"



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Thompson Asia, 2003-08-05.

Reference Books:

1. M.V.Pylee, "An Introduction to Constitution of India", Vikas Publishing, 2002.
2. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, "Engineering Ethics", Prentice –Hall of India Pvt. Ltd. New Delhi, 2004
3. Brij Kishore Sharma, "Introduction to the Constitution of India", PHI Learning Pvt. Ltd., New Delhi, 2011.
4. Latest Publications of Indian Institute of Human Rights, New Delhi.



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ENVIRONMENTAL STUDIES

[As per Choice Based Credit System (CBCS) scheme] (Effective from the academic year
2015 -2016)
SEMESTER - I/II

Subject Code - 15CIV18/15CIV28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course Objectives:

1. To identify the major challenges in environmental issues and evaluate possible solutions.
2. Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
3. To analyze an overall impact of specific issues and develop environmental management plan.

Module - 1

Introduction: **Environment - Components of Environment Ecosystem**: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & **Social Security**.
2 Hours

Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation **Environmental Impact Assessment**, Sustainable Development. 3 Hours

Module - 2

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. 2 Hours

Energy – Different types of energy, Conventional sources & Non-Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy. 3 Hours

Module -3

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. 2 Hours

Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management. 3 Hours

Module -4

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. 3 Hours

Solid Waste Management, E - Waste Management & Biomedical Waste Management - Sources, Characteristics & Disposal methods. 2 Hours

Module - 5

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. 2 Hours

Environmental Acts & Regulations, Role of government, Legal aspects, Role of Non-governmental Organizations (NGOs) , Environmental Education & Women Education.
3 Hours

Course Outcome:

Students will be able to,



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1. Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
2. Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,
3. Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components
4. Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:

1. Benny Joseph (2005), "Environmental Studies", Tata McGraw – Hill Publishing Company Limited.
2. R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
3. R Rajagopalan, "Environmental Studies – From Crisis to Cure", Oxford University Press, 2005,
4. Aloka Debi, "Environmental Science and Engineering", Universities Press (India) Pvt. Ltd. 2012.

Reference Books:

1. Raman Sivakumar, "Principals of Environmental Science and Engineering", Second Edition, Cengage learning Singapore, 2005
2. P. Meenakshi, "Elements of Environmental Science and Engineering", Prentice Hall of India Private Limited, New Delhi, 2006
3. S.M. Prakash, "Environmental Studies", Elite Publishers Mangalore, 2007
4. Erach Bharucha, "Text Book of Environmental Studies", for UGC, University press, 2005
5. G.Tyler Miller Jr., "Environmental Science – working with the Earth", Tenth Edition, Thomson Brooks /Cole, 2004
6. G.Tyler Miller Jr., "Environmental Science – working with the Earth", Eleventh Edition, Thomson Brooks /Cole, 2006
7. Dr.Pratiba Sing, Dr.AnoopSingh and Dr.Piyush Malaviya, "Text Book of Environmental and Ecology", Acme Learning Pvt. Ltd. New Delhi.

MANAGEMENT AND ENTREPRENEURSHIP

Sub Code : 10AL 51

IA Marks : 25



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Hrs/week : 04

Exam Hours : 03

Total Lecture Hrs : 52

Exam Marks : 100

PART – A

MANAGEMENT

UNIT - 1

MANAGEMENT: Introduction - Meaning - nature and characteristics of Management, Scope and Functional areas of management - Management as a science, art of profession - Management & Administration - Roles of Management, Levels of Management, Development of Management Thought - early management approaches - Modern management approaches.

7 Hours

UNIT - 2

PLANNING: Nature, importance and purpose of planning process Objectives - Types of plans (Meaning Only) - Decision making Importance of planning - steps in planning & planning premises - Hierarchy of plans.

6 Hours

UNIT - 3

ORGANIZING AND STAFFING: Nature and purpose of organization Principles of organization – Types of organization - Departmentation Committees- Centralization Vs Decentralization of authority. And responsibility - Span of control - MBO and MBE (Meaning Only) Nature and importance of staffing-- :Process of Selection & Recruitment (in brief).

6 Hours

UNIT - 4

DIRECTING & CONTROLLING: Meaning and nature of directing Leadership styles, Motivation Theories, Communication - Meaning and importance - coordination, meaning and importance and Techniques of Co Ordination. Meaning and steps in controlling - Essentials of a sound control system - Methods of establishing control (in brief):

7 Hours

PART-B

ENTREPRENEURSHIP

UNIT - 5

ENTREPRENEUR: Meaning of Entrepreneur; Evolution of .the Concept; Functions of an Entrepreneur, Types of Entrepreneur, Entrepreneur - an emerging. Class. Concept of Entrepreneurship - Evolution of Entrepreneurship, Development of Entrepreneurship; Stages in entrepreneurial process; Role of entrepreneurs in Economic Development; Entrepreneurship in India; Entrepreneurship - its Barriers.

6 Hours

UNIT – 6

SMALL SCALE INDUSTRIES: Definition; Characteristics; Need and rationale; Objectives; Scope; role of SSI in Economic Development. Advantages of SSI Steps to start and SSI - Government policy towards



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SSI; Different Policies of SSI; Government Support for SSI during 5 year plans. Impact of Liberalization, Privatization, Globalization on SSI Effect of WTO/GA TT Supporting Agencies of Government for SSI, Meaning, Nature of support; Objectives; Functions; Types of Help; Ancillary Industry and Tiny Industry (Definition Only)

7 Hours

UNIT - 7

INSTITUTIONAL SUPPORT: Different Schemes; TECKSOK; KIADB; KSSIDC; KSIMC; DIC Single Window Agency; SISI; NSIC; SIDBI; KSFC.

7 Hours

UNIT - 8

PREPARATION OF PROJECT: Meaning of Project; Project Identification; Project Selection; Project Report; Need and Significance of Report; Contents; Formulation; Guidelines by Planning Commission for Project report; Network Analysis; Errors of Project Report; Project Appraisal. Identification of business opportunities: Market Feasibility Study; Technical Feasibility Study; Financial Feasibility Study & Social Feasibility Study.

7 Hours

TEXT BOOKS:

1. **Principles of Management** – P. C.Tripathi, P.N. Reddy – Tata McGraw Hill,
2. **Dynamics of Entrepreneurial Development & Management** Vasant Desai – Himalaya Publishing House 24
3. **Entrepreneurship Development** – Poornima. M. Charantimath Small Business Enterprises – Pearson Education - 2006 (2 & 4)

REFERENCE BOOKS:

1. **Management Fundamentals** - Concepts, Application, Skill Development - RobersLusier - Thomson
2. **Entrepreneurship Development** - S.S.Khanka - S.Chand& Co.
3. **Management** - Stephen Robbins - Pearson Education/PHI - 17th Edition, 2003.

B.E Biotechnology

CONSTITUTION OF INDIA, PROFESSIONAL ETHICS & HUMAN RIGHTS



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Subject Code - 15CPH18/15CPH28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course objectives:

1. To provide basic information about Indian constitution.
2. To identify individual role and ethical responsibility towards society.
3. To understand human rights and its implications

Module 1

Introduction to the Constitution of India, The Making of the Constitution and Salient features of the Constitution. 2 Hours Preamble to the Indian Constitution **Fundamental Rights & its limitations. 3 Hours**

Module 2

Directive Principles of State Policy & Relevance of Directive Principles State Policy Fundamental Duties. 2 Hours Union Executives – President, Prime Minister Parliament Supreme Court of India. 3 Hours

Module 3

State Executives – Governor Chief Minister, State Legislature High Court of State. 2 Hours Electoral Process in India, Amendment Procedures, 42nd, 44th, 74th, 76th, 86th & 91st Amendments. 3 Hours

Module 4

Special Provision for SC & ST Special Provision for Women, Children & Backward Classes Emergency Provisions. Human Rights –Meaning and Definitions, Legislation Specific Themes in Human Rights- Working of National Human Rights Commission in India 3 Hours

Powers and functions of Municipalities, Panchyats and Co - Operative Societies. 2 Hours

Module 5

Scope & Aims of Engineering Ethics, Responsibility of Engineers Impediments to Responsibility. 2 Hours Risks, Safety and liability of Engineers, Honesty, Integrity & Reliability in Engineering. 3 Hours

Course outcomes:

After study of the course, the students are able to

- Have general knowledge and legal literacy and thereby to take up competitive examinations
- Understand state and central policies, fundamental duties
- Understand Electoral Process, special provisions
- Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, and
- Understand Engineering ethics and responsibilities of Engineers.
- Have an awareness about basic human rights in India

Text Books:

1. Durga Das Basu: "Introduction to the Constitution on India", (Students Edn.) Prentice –Hall EEE, 19th / 20th Edn., 2001
2. Charles E. Haries, Michael S Pritchard and Michael J. Robins "Engineering Ethics" Thompson Asia, 2003-08-05.



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3. Brij Kishore Sharma, "Introduction to the Constitution of India", PHI Learning Pvt. Ltd., New Delhi, 2011.
4. Latest Publications of Indian Institute of Human Rights, New Delhi.

MANAGEMENT AND ENTREPRENEURSHIP

Sub Code : 10AL 51 IA Marks : 25

Hrs/week : 04 Exam Hours : 03

Total Lecture Hrs : 52 Exam Marks : 100

PART – A

MANAGEMENT

UNIT - 1

MANAGEMENT: Introduction - Meaning - nature and characteristics of Management, Scope and Functional areas of management - Management as a science, art of profession - Management & Administration - Roles of Management, Levels of Management, Development of Management Thought - early management approaches - Modern management approaches.

7 Hours

UNIT - 2

PLANNING: Nature, importance and purpose of planning process Objectives - Types of plans (Meaning Only) - Decision making Importance of planning - steps in planning & planning premises - Hierarchy of plans.

6 Hours

UNIT - 3

ORGANIZING AND STAFFING: Nature and purpose of organization Principles of organization – Types of organization - Departmentation Committees- Centralization Vs Decentralization of authority. And responsibility - Span of control - MBO and MBE (Meaning Only) Nature and importance of staffing-- :Process of Selection & Recruitment (in brief).

6 Hours

UNIT - 4

DIRECTING & CONTROLLING: Meaning and nature of directing Leadership styles, Motivation Theories, Communication - Meaning and importance - coordination, meaning and importance and Techniques of Co Ordination. Meaning and steps in controlling - Essentials of a sound control system - Methods of establishing control (in brief):

7 Hours

PART-B

ENTREPRENEURSHIP

UNIT - 5

ENTREPRENEUR: Meaning of Entrepreneur; Evolution of .the Concept; Functions of an Entrepreneur,Types of Entrepreneur, Entrepreneur - an emerging. Class. Concept of Entrepreneurship - Evolution of Entrepreneurship, Development of Entrepreneurship; Stages in entrepreneurial process; Role of entrepreneurs in Economic Development; Entrepreneurship in India; Entrepreneurship - its Barriers.

6 Hours

UNIT – 6

SMALL SCALE INDUSTRIES: Definition; Characteristics; Need and rationale; Objectives; Scope; role of SSI in Economic Development. Advantages of SSI Steps to start and SSI - Government policy towards SSI; Different Policies of SSI; Government Support for SSI during 5 year plans. Impact of Liberalization, Privatization, Globalization on SSI Effect of WTO/GA TT Supporting Agencies of Government for SSI, Meaning, Nature of support; Objectives; Functions; Types of Help; Ancillary Industry and Tiny Industry



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(Definition Only)

7 Hours

UNIT - 7

INSTITUTIONAL SUPPORT: Different Schemes; TECKSOK; KIADB; KSSIDC; KSIMC; DIC Single Window Agency; SISI; NSIC; SIDBI; KSFC.

7 Hours

UNIT - 8

PREPARATION OF PROJECT: Meaning of Project; Project Identification; Project Selection; Project Report; Need and Significance of Report; Contents; Formulation; Guidelines by Planning Commission for Project report; Network Analysis; Errors of Project Report; Project Appraisal. Identification of business opportunities: Market Feasibility Study; Technical Feasibility Study; Financial Feasibility Study & Social Feasibility Study.

7 Hours

TEXT BOOKS:

1. **Principles of Management** – P. C.Tripathi, P.N. Reddy – Tata McGraw Hill,
2. **Dynamics of Entrepreneurial Development & Management** Vasant Desai - Himalaya Publishing House
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3. **Entrepreneurship Development** – Poornima. M. Charantimath Small Business Enterprises - Pearson Education - 2006 (2 & 4).

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3. **Management** - Stephen Robbins - Pearson Education/PHI - 17th Edition, 2003.



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PROJECT MANAGEMENT & IPR

Sub. Code : 10BT-81 I.A Marks : 25

Hours/week : 04 Exam Hrs. : 03

Total Hours : 52 Exam Marks : 100

PART A

UNIT 1:

INTRODUCTION

Definitions, network planning techniques, benefits and limitations of network planning, project reporting, case studies. **02 Hours**

UNIT 2:

PROJECT PLANNING

Planning procedures, developing a network planning diagram, project evaluation and review techniques. Developing the project schedule: scheduling procedure, timing estimates, manual timing calculations, optional start and finish times, tabulating the schedule, setting up the calendar schedule, constructing the bar chart time, schedule. Monitoring and controlling the project: constructing the progress schedule constructing the summary bar chart, constructing the project status report, status reporting using the milestone approach. Scheduling and Controlling Project Costs: Developing the Project Cost Schedule Monitoring Project Costs. Cost Minimizing: Time/Cost Trade-Offs, Planning Personnel/Labor Requirements, Need for Planning Personnel/Labor, Planning Personnel Requirements, Early Start Scheduling.

12 Hours

UNIT 3:

ROLE OF THE COMPUTER

Software Packages, features of a Project Management Package, Background Planning the Project Scheduling the Project, Monitoring the Project Schedule, Controlling Project Costs, Planning for Labor and Personnel, Using the Computer for Planning and Scheduling. **06 Hours**

UNIT 4:

MANAGEMENT SYSTEM

Background developing a plan of action, conducting the audit, preparing the feasibility report, obtaining management approval, planning and scheduling project implementation, procuring, installing, and trying out the equipments, designing and constructing the site **06 Hours**

PART B

UNIT 5:

IPR

Introduction to IPR, Concept of Property, Marx's theory on Property, Constitutional aspects of Intellectual property. Basic principles of Patent laws: Historical background in UK, US and India. Basis for IP protection. Criteria for patentability: Novelty, Utility, and Inventive step, Non obviousness, Non patentable invention. **06 Hours**

UNIT 6:

CONVENTIONS & AGREEMENTS

Paris convention (1883), Berne convention for protection of literary and artistic works (1886), Patent Corporation Treaty (PCT), Madrid agreement (1891) and protocols of relative agreement (1989). Rome convention (1961) on the protection of performances, producers of phonograms and Broadcasting organization, TRIPS agreement (1994), WIPO performance and phonograms



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Treaty (WPPT, 1996). **06 Hours**

UNIT 7:

74

PATENT LAWS & BT

Objectives, Evolution of Biotechnology, Application of Biotechnology, Commercial potential of BT invention, R & D investments, Rationale and applications. Concept of Novelty and Inventive step in BT, Micro organisms and BT inventions, Moral issues in patenting BT invention. Substantiation of Patent laws & international agreements related to pharma, microbial, environmental, agricultural and informatics sectors via classical case studies. **06 Hours**

UNIT 8:

TRADITIONAL KNOWLEDGE

Introduction, Justification for plant variety protection, International position, UPOV, 1961, 1978, 1991 guidelines, Plant variety protection in India. Justification for geographical indications, Multi-lateral treaties. Concept of Traditional knowledge, stake holders, issues concerning traditional knowledge, Bioprospecting & Biopiracy – ways to tackle, Protectability of traditional knowledge under existing **IP framework**, need for sui-generis regime, Traditional knowledge on the International arena, Traditional knowledge at WTO and National level, Traditional knowledge digital library. **08 Hours**

TEXT BOOKS

The Law & Strategy of Biotechnology Patents by Sibley Kenneth.

Intellectual Property by Bently and Lionel, Oxford University Press.

Cases and Materials on Intellectual Property by Cornish, W R.

Project Management by Sahni, Ane Books.

Project Management for Business & Engineering: Principles and Practice by John M Nicholas, Elsevier.

Project Management for Business & Technology, Nicholas, PHI.

Practical Approach to IPR by Rachana Singh Puri, IK Intl. Ltd.

REFERENCE BOOKS

Intellectual Property and Criminal Law by Gopalakrishnan, N S, Bangalore: National Law School of India University.

Intellectual Property Law by Tina Gart and Linda Fazzani, London: McMillan Publishing Co.

Intellectual Property Rights in the WTO and developing contry by Watal Jayashree, Oxford University Press.

BIOETHICS & BIOSAFETY



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Sub. Code : 10BT-82 I.A Marks : 25

Hours/week : 04 Exam Hrs. : 03

Total Hours : 52 Exam Marks : 100

PART A

UNIT 1:

BIOTECHNOLOGY AND SOCIETY

Introduction to science, technology and society, issues of access-Case studies/experiences from developing and developed countries. Ownership, monopoly, traditional knowledge, biodiversity, benefit sharing, environmental sustainability, public vs. private funding, biotechnology in international relations, globalization and development divide. Public acceptance issues for biotechnology: Biotechnology and hunger: Challenges for the Indian Biotechnological research and industries. **08 Hours**

UNIT 2:

LEGAL ISSUES

The legal, institutional and socioeconomic impacts of biotechnology; biotechnology and social responsibility, Public education to increase the awareness of bioethics with regard to generating new forms of life for informed decision making – with case studies. **04 Hours**

75

UNIT 3:

BIOETHICS

Principles of **bioethics**: Legality, **morality** and **ethics**, autonomy, **human rights**, beneficence, privacy, justice, equity etc. The expanding scope of ethics from biomedical practice to biotechnology, **bioethics vs. business ethics**, **ethical** dimensions of **IPR**, technology transfer and other global biotech issues. **06 Hours**

UNIT 4:

BIOSAFETY CONCEPTS AND ISSUES

Ethical conflicts in biotechnology - interference with nature, fear of unknown, unequal distribution of risks and benefits of biotechnology, Rational vs. subjective perceptions of risks and benefits, relationship between risk, **hazard**, exposure and safeguards, Biotechnology and **biosafety** concerns at the level of individuals, institutions, society, region, country and the world. The Cartagena protocol on biosafety. Biosafety management. **Ethical implications** of biotechnological products and techniques. **08 Hours**

PART B

UNIT 5:

BIOSAFETY IN THE LABORATORY

Laboratory associated infections and other hazards, assessment of biological hazards and levels of **biosafety**, prudent **biosafety** practices in the laboratory/ institution. Experimental protocol approvals, levels of containment. **04 Hours**

UNIT 6:

REGULATIONS

Biosafety assessment procedures in India and abroad. International dimensions in **biosafety**, bioterrorism and convention on biological weapons. Social and ethical implications of biological weapons. **Biosafety** regulations and national and international guidelines with regard to recombinant DNA technology. Guidelines for research in transgenic plants. Good manufacturing practice and Good lab practices (GMP and GLP). National and international regulations for food



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and pharma products. **08 Hours**

UNIT 7:

ECOLOGICAL & FOOD SAFETY

The GM-food debate and biosafety assessment procedures for biotech foods & related products, including transgenic food crops, case studies of relevance. Key to the environmentally responsible use of biotechnology. Environmental aspects of biotech applications. Use of genetically modified organisms and their release in environment. **06 Hours**

UNIT 8:

AGRI & PHARMA SECTOR

Discussions on recombinant organisms and transgenic crops, with case studies of relevance. Plant breeder's rights. Legal implications, Biodiversity and farmers rights. Biosafety assessment of pharmaceutical products such as drugs/vaccines etc. Biosafety issues in Clinical Trials.

08 Hours

TEXT BOOKS

Biotechnology and **Safety Assessment** by Thomas, J.A., Fuch, R.L, Academic Press.

Biological safety Principles and practices) by Fleming, D.A., Hunt, D.L, ASM Press.

Biotechnology - A comprehensive treatise. Legal economic and ethical dimensions VCH.

Bioethics by Ben Mepham, Oxford University Press.

Bioethics & Biosafety by R Rallapalli & Geetha Bali, APH Publication.

REFERENCE BOOKS

BIOETHICS & BIOSAFETY by SATEESH MK, IK Publishers

76

Biotechnologies and development by Sassaon A, UNESCO Publications.

Biotechnologies in developing countries by Sasson A, UNESCO Publishers.

Intellectual Property Rights on Biotechnology by Singh K. BCIL, New Delhi.

WTO and International Trade by M B Rao. Vikas Publishing House Pvt. Ltd.

IPR in Agricultural Biotechnology by Erbisch F H and Maredia K M. Orient Longman Ltd.

Cartagena Protocol on Biosafety.

Biological Warfare in the 21st century by M.R. Dano, Brassies London.

Safety Considerations for Biotechnology, Paris, OECD.

Biosafety Management by P.L. Traynor, Virginia polytechnic Institute Publication.



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B.E Civil Engineering

CONSTITUTION OF INDIA, PROFESSIONAL ETHICS & HUMAN RIGHTS

Subject Code - 15CPH18/15CPH28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course objectives:

1. To provide basic information about Indian constitution.
2. To identify individual role and ethical responsibility towards society.
3. To understand human rights and its implications

Module 1

Introduction to the Constitution of India, The Making of the Constitution and Salient features of the Constitution. 2 Hours Preamble to the Indian Constitution **Fundamental Rights & its limitations. 3 Hours**

Module 2

Directive Principles of State Policy & Relevance of Directive Principles State Policy Fundamental Duties. 2 Hours Union Executives – President, Prime Minister Parliament Supreme Court of India. 3 Hours

Module 3

State Executives – Governor Chief Minister, State Legislature High Court of State. 2 Hours Electoral Process in India, Amendment Procedures, 42nd, 44th, 74th, 76th, 86th & 91st Amendments. 3 Hours

Module 4

Special Provision for SC & ST Special Provision for Women, Children & Backward Classes Emergency Provisions. Human Rights –Meaning and Definitions, Legislation Specific Themes in Human Rights- Working of National Human Rights Commission in India 3 Hours

Powers and functions of Municipalities, Panchyats and Co - Operative Societies. 2 Hours

Module 5

Scope & Aims of Engineering Ethics, Responsibility of Engineers Impediments to Responsibility. 2 Hours Risks, Safety and liability of Engineers, Honesty, Integrity & Reliability in Engineering. 3 Hours

Course outcomes:

After study of the course, the students are able to

- Have general knowledge and legal literacy and thereby to take up competitive examinations
- Understand state and central policies, fundamental duties
- Understand Electoral Process, special provisions
- Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, and
- Understand Engineering ethics and responsibilities of Engineers.



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- Have an awareness about basic human rights in India

Text Books:

1. Durga Das Basu: "Introduction to the Constitution on India", (Students Edn.) Prentice –Hall EEE, 19th / 20th Edn., 2001
2. Charles E. Haries, Michael S Pritchard and Michael J. Robins "Engineering Ethics" Thompson Asia, 2003-08-05.

Reference Books:

1. M.V.Pylee, "An Introduction to Constitution of India", Vikas Publishing, 2002.
2. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, "Engineering Ethics", Prentice –Hall of India Pvt. Ltd. New Delhi, 2004
3. Brij Kishore Sharma, "Introduction to the Constitution of India", PHI Learning Pvt. Ltd., New Delhi, 2011.
4. Latest Publications of Indian Institute of Human Rights, New Delhi.



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ENVIRONMENTAL STUDIES

[As per Choice Based Credit System (CBCS) scheme] (Effective from the academic year
2015 -2016)
SEMESTER - I/II

Subject Code - 15CIV18/15CIV28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course Objectives:

1. To identify the major challenges in environmental issues and evaluate possible solutions.
2. Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
3. To analyze an overall impact of specific issues and develop environmental management plan.

Module - 1

Introduction: **Environment - Components of Environment Ecosystem**: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & **Social Security**.
2 Hours

Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation **Environmental Impact Assessment**, Sustainable Development. 3 Hours

Module - 2

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. 2 Hours

Energy – Different types of energy, Conventional sources & Non-Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy. 3 Hours

Module -3

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. 2 Hours

Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management. 3 Hours

Module -4

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. 3 Hours

Solid Waste Management, E - Waste Management & Biomedical Waste Management - Sources, Characteristics & Disposal methods. 2 Hours

Module - 5

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. 2 Hours

Environmental Acts & Regulations, Role of government, Legal aspects, Role of Non-governmental Organizations (NGOs) , Environmental Education & Women Education.
3 Hours

Course Outcome:

Students will be able to,



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1. Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
2. Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,
3. Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components
4. Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:

1. Benny Joseph (2005), "Environmental Studies", Tata McGraw – Hill Publishing Company Limited.
2. R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
3. R Rajagopalan, "Environmental Studies – From Crisis to Cure", Oxford University Press, 2005,
4. Aloka Debi, "Environmental Science and Engineering", Universities Press (India) Pvt. Ltd. 2012.

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4. Erach Bharucha, "Text Book of Environmental Studies", for UGC, University press, 2005
5. G.Tyler Miller Jr., "Environmental Science – working with the Earth", Tenth Edition, Thomson Brooks /Cole, 2004
6. G.Tyler Miller Jr., "Environmental Science – working with the Earth", Eleventh Edition, Thomson Brooks /Cole, 2006
7. Dr.Pratiba Sing, Dr.AnoopSingh and Dr.Piyush Malaviya, "Text Book of Environmental and Ecology", Acme Learning Pvt. Ltd. New Delhi.



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Course Title: Environmental Protection and Management

As per Choice Based Credit System (CBCS) scheme]

SEMESTER:VI

Subject Code 15CV662 IA Marks 20

Number of Lecture Hours/Week 03 Exam Marks 80

Total Number of Lecture Hours 40 Exam Hours 03

CREDITS –03 Total Marks- 100

Course objectives: This course will enable students to gain knowledge in Environmental protection and Management systems Revised

Modules Teaching Bloom's Hours Taxonomy (RBT) Level

Module -1 Environmental Management Standards Unique Characteristics of Environmental Problems - Systems approach to Corporate environmental management - Classification of Environmental Impact Reduction Efforts - Business Charter for Sustainable Production and Consumption – Tools, Business strategy drivers and Barriers - Evolution of 8 hours L1,L2,L3 Environmental Stewardship. Environmental Management Principles – National policies on environment, abatement of pollution and conservation of resources - Charter on Corporate responsibility for Environmental protection.

Module -2 Environmental Management Objectives Environmental quality objectives – Rationale of Environmental standards: Concentration and Mass standards, Effluent and stream standards, Emission and ambient standards, Minimum national standards, environmental performance 8 Hours L1,L2,L3 evaluation: Indicators, benchmarking. Pollution control Vs Pollution Prevention - Opportunities and Barriers – Cleaner production and Clean technology, closing the loops, zero discharge technologies

Module -3 Environmental Management System

EMAS, ISO 14000 - EMS as per ISO 14001– benefits and barriers of EMS – Concept of continual improvement and pollution prevention – environmental policy – initial environmental review – environmental aspect and impact analysis – legal and other requirements- objectives and targets – environmental 8 Hours L1,L2,L3 management programs – structure and responsibility – training awareness and competence- communication – documentation and document control – operational control – monitoring and measurement – management review.

Module -4 Environmental Audit Environmental management system audits as per ISO 19011- – Roles and qualifications of auditors - Environmental performance indicators and their evaluation – Non conformance – Corrective and preventive actions -compliance 8 Hours L1,L2,L3 audits – waste audits and waste minimization planning – Environmental statement (form V) - Due diligence audit

Module -5 Applications Applications of EMS , Waste Audits and Pollution Prevention opportunities in Textile , Sugar, Pulp & Paper, Electroplating , Tanning industry, Dairy, Cement, 8 Hours L1,L2,L3 Chemical industries, etc. Trans boundary movement, disposal, procedures, of hazardous wastes.

Course outcomes: After studying this course, students will be able to:

1. Appreciate the elements of Corporate Environmental Management systems complying to international environmental management system standards
2. Lead pollution prevention assessment team and implement waste minimization options
3. Develop, Implement, maintain and Audit Environmental Management systems for Organisations



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Program Objectives:

- Engineering knowledge
- Problem analysis
- Interpretation of data

Question paper pattern:

- The question paper will have 5 modules comprising of ten questions. Each full question carrying 16 marks
- There will be two full questions (with a maximum of three subdivisions, if necessary) from each module.
- Each full question shall cover the topics as a module
- The students shall answer five full questions, selecting one full question from each module. If more than one question is answered in modules, best answer will be considered for the award of marks limiting one full question answer in each module.

Reference Books:

1. Christopher Sheldon and Mark Yoxon, "Installing Environmental management Systems – a step by step guide" Earthscan Publications Ltd, London, 1999.
2. ISO 14001/14004: Environmental management systems – Requirements and Guidelines – International Organisation for Standardisation, 2004
3. ISO 19011: 2002, "Guidelines for quality and/or Environmental Management System auditing, Bureau of Indian Standards, New Delhi, 2002
4. Paul L Bishop „Pollution Prevention: Fundamentals and Practice , McGraw- Hill International, Boston,2000.
5. Environmental Management Systems: An Implementation Guide for Small and Medium-Sized Organizations, Second Edition, NSF International, Ann Arbor, Michigan, January 2001.



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4th Year / 1st Semester | Civil Engineering | Environmental Engineering Laboratory

Course Title: Environmental Engineering Laboratory

As per Choice Based Credit System (CBCS) scheme

SEMESTER:VII

Subject Code 15CVL76 IA Marks 20

Number of Lecture Hours/Week 1I+2P Exam Marks 80

Total Number of Lecture Hours 40 Exam Hours 03

CREDITS –02 Total Marks- 100

Course objectives: This course will enable students,

1. To learn different methods of water & waste water quality
2. To conduct experiments to determine the concentrations of water and waste water
3. To determine the degree and type of treatment
4. To understand the environmental significance and application in environmental engineering practice

Revised

Experiments Teaching Hours Bloom's

Taxonomy

(RBT) Level

1. Determination of pH, Acidity and Alkalinity 02 Class L1,L2,L3
2. Determination of Calcium, Magnesium and Total Hardness. 02 Class L1,L2,L3
3. Determination of Dissolved Oxygen.
4. Determination of BOD. 02 Class L1,L2,L3

5. Determination of Chlorides 01 Class L1,L2,L3
6. Determination of percentage of available chlorine in bleaching powder, 01 Class L1,L2,L3 Determination of Residual Chlorine
7. Determination of Solids in Sewage:
 - I) Total Solids,
 - II) Suspended Solids,
 - III) Dissolved Solids, 02 Class L1,L2,L3 IV) Volatile Solids, Fixed Solids,
 - V) Settle able Solids.
8. Determination of Turbidity by Nephelometer
9. Determination of Optimum Dosage of Alum using Jar test apparatus.
10. Determination of sodium and potassium using flame photometer. 01 Class L1,L2,L3
11. Determination Nitrates by spectrophotometer.
12. Determination of Iron & Manganese. 01 Class L1,L2,L3
13. Determination of COD. Demonstration L1,L2,L3
14. Air Quality Monitoring (Ambient, stack monitoring , Indoor air Demonstration L1,L2,L3 pollution)

15. Determination of Sound by Sound level meter at different location Demonstration L1,L2,L3

Course Outcomes: After studying this course, students will be able to:

1. Acquire capability to conduct experiments and estimate the concentration of different parameters.
2. Compare the result with standards and discuss based on the purpose of analysis.
3. Determine type of treatment, degree of treatment for water and waste water.
4. Identify the parameter to be analyzed for the student project work in environmental stream.

Program Objectives:

1. Evaluation of the test results and assesses the impact on water and waste water treatment.
2. Train student to undertake student project work in 8th semester in the field of environmental engineering.

Question paper pattern:

- Two experiments shall be asked from the above set



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- One experiment to be conducted and for the other student should write detailed procedure.

Reference Books:

1. Lab Manual, ISO 14001 **Environmental** Management, Regulatory Standards for Drinking Water and Sewage disposal

2. Clair Sawyer and Perry McCarty and Gene Parkin, "Chemistry for **Environmental** Engineering and Science", McGraw-Hill Series in Civil and **Environmental** Engineering

Course Title: Computer Aided Detailing of Structures

As per Choice Based Credit System (CBCS) scheme]

SEMESTER:VII

Subject Code 15CVL77 IA Marks 20

Number of Lecture Hours/Week 03 (1+2D) Exam Marks 80

Total Number of Lecture Hours 40 Exam Hours 03

CREDITS –02 Total Marks- 100

Course objectives: This course will enable students to

1. Be aware of the Scale Factors, Sections of drawings,
2. Draft the detailing of RC and Steel Structural member.

Revised

Modules Teaching Bloom's

Hours Taxonomy

(RBT) Level

Module -1 Detailing of RCC Structures

1. Beams – Simply supported, Cantilever and Continuous.
2. Slab – One way, Two way and One-way continuous.
3. Staircase – Doglegged 20 hours L1,L2,L3 4. Cantilever Retaining wall

5. Counter Fort Retaining wall

6. Circular Water Tank, Rectangular Water Tank.

Module -2 Detailing of Steel Structures

1. Connections – Beam to beam, Beam to Column by Bolted and Welded Connections.

2. Built-up Columns with lacings and battens

3. Column bases and Gusseted bases with bolted and welded connections. 20 Hours L1,L2,L3

4. Roof Truss – Welded and Bolted

5. Beams with Bolted and Welded

6. Gantry Girder

Course outcomes: After studying this course, students will be able to:

- Prepare detailed working drawings

Program Objectives:

- Engineering knowledge
- Problem analysis
- Interpretation of data

Question paper pattern:

- Two questions shall be asked from each Module.
- One full question should be answered from each Module.
- Each question carries 40 marks.

Text Books:

1. N Krishna Raju, "Structural Design and Drawing of Reinforced Concrete and Steel", University Press

2. Krishna Murthy, "Structural Design and Drawing – Concrete Structures", CBS Publishers, New Delhi

Reference Books:

1. SP 34: Handbook on Concrete Reinforcement and Detailing, Bureau of Indian Standards

2. IS 13920:2016,Ductile Design And Detailing Of Reinforced Concrete Structures Subjected To Seismic Forces



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- Code Of Practice, Bureau of Indian Standard

B.E Automobile Engineering

B.E Mechatronics

2016-2017

1	15A52201	EnglishforProfessionalCommunication	2	1		2
2	15A54201	Mathematics – II	3	1	-	3
3	15A01201	EngineeringMechanics	3	1	-	3
4	15A51101	EngineeringChemistry	3	1	-	3
5	15A51101	Environmental studies	3	1	-	3
6	15A01202	AppliedMechanicsLab	-	-	-	-
7	15A51102	EngineeringChemistryLab	-	-	4	2
8	15A99201	Engineering&ITWorkshop	-	-	4	2
	Total		15	5	12	21



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CONSTITUTION OF INDIA, PROFESSIONAL ETHICS & HUMAN RIGHTS

Subject Code - 15CPH18/15CPH28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course objectives:

1. To provide basic information about Indian constitution.
2. To identify individual role and ethical responsibility towards society.
3. To understand human rights and its implications

Module 1

Introduction to the Constitution of India, The Making of the Constitution and Salient features of the Constitution. 2 Hours Preamble to the Indian Constitution **Fundamental Rights & its limitations. 3 Hours**

Module 2

Directive Principles of State Policy & Relevance of Directive Principles State Policy Fundamental Duties. 2 Hours Union Executives – President, Prime Minister Parliament Supreme Court of India. 3 Hours

Module 3

State Executives – Governor Chief Minister, State Legislature High Court of State. 2 Hours Electoral Process in India, Amendment Procedures, 42nd, 44th, 74th, 76th, 86th & 91st Amendments. 3 Hours

Module 4

Special Provision for SC & ST Special Provision for Women, Children & Backward Classes Emergency Provisions. Human Rights –Meaning and Definitions, Legislation Specific Themes in Human Rights- Working of National Human Rights Commission in India 3 Hours

Powers and functions of Municipalities, Panchyats and Co - Operative Societies. 2 Hours

Module 5

Scope & Aims of Engineering Ethics, Responsibility of Engineers Impediments to Responsibility. 2 Hours Risks, Safety and liability of Engineers, Honesty, Integrity & Reliability in Engineering. 3 Hours

Course outcomes:

After study of the course, the students are able to

- Have general knowledge and legal literacy and thereby to take up competitive examinations
- Understand state and central policies, fundamental duties
- Understand Electoral Process, special provisions
- Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, and
- Understand Engineering ethics and responsibilities of Engineers.
- Have an awareness about basic human rights in India



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Text Books:

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ENVIRONMENTAL STUDIES

[As per Choice Based Credit System (CBCS) scheme] (Effective from the academic year
2015 -2016)

SEMESTER - I/II

Subject Code - 15CIV18/15CIV28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course Objectives:

1. To identify the major challenges in environmental issues and evaluate possible solutions.
2. Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
3. To analyze an overall impact of specific issues and develop environmental management plan.

Module - 1

Introduction: **Environment - Components of Environment Ecosystem**: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & **Social Security**.

2 Hours

Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation **Environmental Impact Assessment**, Sustainable Development. 3 Hours

Module - 2

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. 2 Hours

Energy – Different types of energy, Conventional sources & Non-Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy. 3 Hours

Module -3

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. 2 Hours

Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management. 3 Hours

Module -4

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. 3 Hours

Solid Waste Management, E - Waste Management & Biomedical Waste Management - Sources, Characteristics & Disposal methods. 2 Hours

Module - 5

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. 2 Hours



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Environmental Acts & Regulations, Role of government, Legal aspects, Role of Non-governmental Organizations (NGOs) , Environmental Education & Women Education.

3 Hours

Course Outcome:

Students will be able to,

1. Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
2. Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,
3. Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components
4. Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:

1. Benny Joseph (2005), "Environmental Studies", Tata McGraw – Hill Publishing Company Limited.
2. R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
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6. G.Tyler Miller Jr., "Environmental Science – working with the Earth", Eleventh Edition, Thomson Brooks /Cole, 2006
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B.E Mechatronics

2016-17

Constitution of India, Professional Ethics and Human Rights (CPH) - 15CPH18

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
1	15MAT11	Engineering Maths-I	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	15PHY12	Engineering Physics	BS	Physics	Basic Sc.	4 (T)	80	20	100	4
3	15CIV13	Elements of Civil Engg. & Mechanics	ES	Civil Engg.	Civil Engg.	4 (T)	80	20	100	4
4	15EME14	Elements of Mechanical Engg.	ES	Mech. Engg.	Mech. Engg.	4 (T)	80	20	100	4
5	15ELE15	Basic Electrical Engg.	ES	E & E	E & E	4 (T)	80	20	100	4
6	15WSL16	Workshop Practice	ES	Mech., Auto, IP, IEM, Mfg. Engg.	Mech. Engg.	3(2 hrslab+ 1 hr instruction)	80	20	100	2
7	15PHYL17	Engg. Physics Lab	BS	Physics	Basic Sc.	3(2 hrslab+ 1hrinstruction)	80	20	100	2
8	15CPH18	Constitution of India, Professional Ethics and Human Rights (CPH)	MNC	Humanities		2 (Tutorial)	40	10	50	--



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9		Language (Kan.)	Mandatory Learning	Humanities		1 (T)	-	-	-	--
						29	600	150	750	24



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CONSTITUTION OF INDIA, PROFESSIONAL ETHICS & HUMAN RIGHTS

Subject Code - 15CPH18/15CPH28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course objectives:

1. To provide basic information about Indian constitution.
2. To identify individual role and ethical responsibility towards society.
3. To understand human rights and its implications

Module 1

Introduction to the Constitution of India, The Making of the Constitution and Salient features of the Constitution. 2 Hours Preamble to the Indian Constitution **Fundamental Rights & its limitations. 3 Hours**

Module 2

Directive Principles of State Policy & Relevance of Directive Principles State Policy Fundamental Duties. 2 Hours Union Executives – President, Prime Minister Parliament Supreme Court of India. 3 Hours

Module 3

State Executives – Governor Chief Minister, State Legislature High Court of State. 2 Hours Electoral Process in India, Amendment Procedures, 42nd, 44th, 74th, 76th, 86th & 91st Amendments. 3 Hours

Module 4

Special Provision for SC & ST Special Provision for Women, Children & Backward Classes Emergency Provisions. Human Rights –Meaning and Definitions, Legislation Specific Themes in Human Rights- Working of National Human Rights Commission in India 3 Hours

Powers and functions of Municipalities, Panchyats and Co - Operative Societies. 2 Hours

Module 5

Scope & Aims of Engineering Ethics, Responsibility of Engineers Impediments to Responsibility. 2 Hours Risks, Safety and liability of Engineers, Honesty, Integrity & Reliability in Engineering. 3 Hours

Course outcomes:

After study of the course, the students are able to

- Have general knowledge and legal literacy and thereby to take up competitive examinations
- Understand state and central policies, fundamental duties
- Understand Electoral Process, special provisions
- Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, and
- Understand Engineering ethics and responsibilities of Engineers.
- Have an awareness about basic human rights in India

Text Books:

1. Durga Das Basu: "Introduction to the Constitution on India", (Students Edn.) Prentice –Hall EEE, 19th / 20th Edn., 2001
2. Charles E. Haries, Michael S Pritchard and Michael J. Robins "Engineering Ethics"



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Thompson Asia, 2003-08-05.

Reference Books:

1. M.V.Pylee, "An Introduction to Constitution of India", Vikas Publishing, 2002.
2. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, "Engineering Ethics", Prentice –Hall of India Pvt. Ltd. New Delhi, 2004
3. Brij Kishore Sharma, "Introduction to the Constitution of India", PHI Learning Pvt. Ltd., New Delhi, 2011.
4. Latest Publications of Indian Institute of Human Rights, New Delhi.



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ENVIRONMENTAL STUDIES

[As per Choice Based Credit System (CBCS) scheme] (Effective from the academic year
2015 -2016)

SEMESTER - I/II

Subject Code - 15CIV18/15CIV28

IA Marks - 10

Number of Lecture Hours/Week - 02

Exam Marks - 40

Total Number of Lecture Hours - 25

Exam Hours - 02

Course Objectives:

1. To identify the major challenges in environmental issues and evaluate possible solutions.
2. Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
3. To analyze an overall impact of specific issues and develop environmental management plan.

Module - 1

Introduction: **Environment - Components of Environment Ecosystem**: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & **Social Security**.
2 Hours

Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation **Environmental Impact Assessment**, Sustainable Development. 3 Hours

Module - 2

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. 2 Hours

Energy – Different types of energy, Conventional sources & Non-Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy. 3 Hours

Module -3

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. 2 Hours

Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management. 3 Hours

Module -4

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. 3 Hours

Solid Waste Management, E - Waste Management & Biomedical Waste Management - Sources, Characteristics & Disposal methods. 2 Hours

Module - 5

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. 2 Hours

Environmental Acts & Regulations, Role of government, Legal aspects, Role of Non-governmental Organizations (NGOs) , Environmental Education & Women Education.

3 Hours

Course Outcome:

Students will be able to,



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1. Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
2. Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,
3. Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components
4. Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:

1. Benny Joseph (2005), "Environmental Studies", Tata McGraw – Hill Publishing Company Limited.
2. R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
3. R Rajagopalan, "Environmental Studies – From Crisis to Cure", Oxford University Press, 2005,
4. Aloka Debi, "Environmental Science and Engineering", Universities Press (India) Pvt. Ltd. 2012.

Reference Books:

1. Raman Sivakumar, "Principals of Environmental Science and Engineering", Second Edition, Cengage learning Singapore, 2005
2. P. Meenakshi, "Elements of Environmental Science and Engineering", Prentice Hall of India Private Limited, New Delhi, 2006
3. S.M. Prakash, "Environmental Studies", Elite Publishers Mangalore, 2007
4. Erach Bharucha, "Text Book of Environmental Studies", for UGC, University press, 2005
5. G.Tyler Miller Jr., "Environmental Science – working with the Earth", Tenth Edition, Thomson Brooks /Cole, 2004
6. G.Tyler Miller Jr., "Environmental Science – working with the Earth", Eleventh Edition, Thomson Brooks /Cole, 2006
7. Dr.Pratiba Sing, Dr.AnoopSingh and Dr.Piyush Malaviya, "Text Book of Environmental and Ecology", Acme Learning Pvt. Ltd. New Delhi.



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Curriculum Highlighting Cross Cutting Issues - PG

MBA

2016-2017

SCHEME OF TEACHING AND EXAMINATION MASTER OF BUSINESS ADMINISTRATION

I SEMESTER

Subject Code	Title of the Subject	Category	Teaching hours / week			Duration of Exam (Hours)	Marks for		Total Marks	Credits
			Lecture	Practical / Field Work / Assignment *	Total		IA	Exam		
16MBA11	Management & Organizational Behaviour	Core Course	3	2	5	3	20	80	100	4
16MBA12	Managerial Economics	Core Course	3	2	5	3	20	80	100	4
16MBA13	Accounting for Managers	Core Course	3	2	5	3	20	80	100	4
16MBA14	Quantitative Methods	Core Course	3	2	5	3	20	80	100	4
16MBA15	Marketing Management	Core Course	3	2	5	3	20	80	100	4
16MBA16	Managerial Communications	Core Course	3	2	5	3	20	80	100	4
	Total		18	12	30		120	480	600	24

* Practical /Field Work / Assignment is a part of contact hours for the faculty and must be considered in the workload.

II SEMESTER

Subject Code	Title of the Subject	Category	Teaching hours / week			Duration of Exam (Hours)	Marks for		Total Marks	Credits
			Lecture	Practical / Field Work / Assignment *	Total		IA	Exam		
16MBA21	Human Resource Management	Core Course	3	2	5	3	20	80	100	4
16MBA22	Financial Management	Core Course	3	2	5	3	20	80	100	4
16MBA23	Research Methods	Core Course	3	2	5	3	20	80	100	4
16MBA24	Business Law and Policy	Core Course	3	2	5	3	20	80	100	4
16MBA25	Strategic Management	Core Course	3	2	5	3	20	80	100	4
16MBA26	Entrepreneurship Development	Core Course	3	2	5	3	20	80	100	4
	Total		18	12	30		120	480	600	24

SEMESTER I

MANAGEMENT & ORGANIZATIONAL BEHAVIOUR

Subject Code : 16MBA11 IA Marks : 20



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No. of Lecture Hours / Week: 03 Exam Hours : 03

Number of Lecture Hours : 56 Exam Marks : 80

Practical Component : 02 Hours / Week

Course Objectives:

- To make students understand fundamental concepts and principles of management, including the basic roles, skills, and functions of management
- To make students knowledgeable of historical development, theoretical aspects and practice applications of managerial process
- To understand the basic concepts and theories underlying individual behavior besides developing better insights into one's own self
- To make students aware of Individual behavior in groups, dynamics of groups and team building besides developing a better awareness of how they can be better facilitators for building effective teams as leaders themselves

Course Outcomes:

At the end of the course students are able to:

_ Comprehend & correlate all the management activities which are happening around them with fundamental concepts and principles of management.

_ Get an overview of management, theory of management and practical applications of the same.

_ Effectively use their individual skill to work in groups to achieve organizational goals and ability to lead groups/teams.

_ Demonstrate their acumen in applying managerial and behavioral concept in real world/situation.

Part A - Principles of Management

Unit 1: (8 Hours)

Introduction: Management: Introduction, Definition of management, Nature, Purpose and Functions, Levels and types of managers, managerial roles, skills for managers, evolution of management thought, Fayol's fourteen principles of management, Recent trends in management.

Unit 2: (12 Hours)

Planning and Organizing:

Planning: Nature of Planning, Planning Process, Objectives, MBO, Strategies, level of strategies, policies, methods and programs, Planning Premises, Decision-making, Process of decision-making, Types of decisions, Techniques in decision-making.

Organizing: Organization structure, Formal and informal organizations, Principles of organizations-chain of command, span of control, delegation, decentralization, and empowerment. Functional, divisional, geographical, customer based and matrix organizations, team based structures, virtual organizations, boundary less organizations.

Unit 3: (5 Hours)

Controlling: Controlling, importance of controlling, controlling process, types of control, factors influencing control effectiveness.

RECOMMENDED BOOKS

- Essentials of Management-Koontz, 8/e, McGraw Hill
- Management: Text and Cases-VSP Rao, Excel Books



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- MGMT, An Innovative approach to teaching and learning Principles of Management, Chuck Williams, Cengage Publications, 2010
- Principles and practices of Management, Kiran Nerkar, Vilas Chopde, Dreamtech Press, 2011
- Management Theory & practice – Chandan J. S, Vikas Publishing House.
- Management Theory & Practice Text & Cases – Subba Rao P & Hima Bindu, Himalaya Publication.

REFERENCE BOOKS:

- Masters of Management Thought – Mahanand Charati & M M Munshi, Sapna Book House, Bangalore, 2015.

Part B - Organizational Behaviour

Unit 4: (6 hours)

Introduction: Organizational Behaviour: Introduction, definition, historical development, fundamental principles of OB, contributing disciplines, challenges and opportunities.

Unit 5: (15 Hours)

Foundations of Individual Behaviour: Individual behaviour: Foundations of individual behaviour. Ability: Intellectual abilities, Physical ability, the role of disabilities.

Personality: Meaning, formation, determinants, traits of personality, big five and MBTI, personality attributes influencing OB.

Attitude: Formation, components of attitudes, relation between attitude and behaviour.

Perception: Process of perception, factors influencing perception, link between perception and individual decision-making.

Unit 6: (10 Hours)

Motivation: Meaning, theories of motivation-needs theory, two factor theory, Theory X and Y, application of motivational theories.

Leadership: Meaning, styles of leadership, leadership theories, trait theory, behavioural theories, managerial grid, situational theories

Note: Related case studies to be discussed.

Practical Components:

- Studying organizational structures of any 10 companies and classifying them into different types of organizations which are studied in Unit 2 and justifying why such structures are chosen by those organizations.
- Preparing the leadership profiles of any 5 business leaders and studying their leadership qualities and behaviours with respects to the trait, behavioural and contingency theories studied.
- Identifying any five job profiles and listing the various types, abilities required for those jobs and also the personality traits/attributes required for the jobs identified.

Note: Faculty can either identify the organizations/ leaders/jobs or

students can be allowed to choose the same.

RECOMMENDED BOOKS:

- Organizational behaviour, Stephen P Robbins, Timothy A. Judge, Neharika Vohra, 14th Edition, Pearson, 2012.
- Introduction to Organisational Behaviour – Michael Butler, Jaico Publishing House,
- Organization Behaviour – Ashwathappa, Himalaya Publication House
- ORGB - Nelson, Quick, Khanelwal, 2/e, Cengage Learning, 2012.



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- Organizational Behaviour - Anada Das Gupta, Biztantra, 2011.
- Organizational Behaviour: A modern approach - Arun Kumar and Meenakshi, Vikas Publishing House, 2011.
- Organizational Behaviour – Rao V. S. P, Excel BOOKS, 2009.

REFERENCE BOOKS:

- Organizational Behaviour - Fred Luthans, 12/e, McGraw Hill International, 2011.
- Management and Organizational Behaviour - Laurie J Mullins, Pearson education

HUMAN RESOURCE MANAGEMENT

Subject Code : 16MBA21 IA Marks : 20

No. of Lecture Hours / Week : 03 Exam Hours : 03

Total Number of Lecture Hours : 56 Exam Marks : 80

Practical Component : 02 Hours / Week

Objectives:

- To understand the HRM concepts and theory
- To obtain an overview of various HRM functions and practices
- To gain an insight into the various statutory provisions

Course outcome:

At the end of the course students will be able to:

- _ Synthesize information regarding the effectiveness of recruiting methods & selection procedures
- _ Identify the various training methods and design a training program
- _ Design a job description and job specification for various levels of employees.
- _ List out the regulations governing employee benefit practices.

Unit 1: (8 hours)

Human Resource Management:

Introduction, meaning, nature, scope of HRM - Importance and Evolution of the concept of HRM - Major functions of HRM - Principles of HRM

Unit 2: (10 hours)

Job Analysis: Meaning, process of Job Analysis, methods of collecting job analysis data, Job Description and Job Specification, Role Analysis.

Human Resource Planning: Objectives, Importance and process of Human Resource Planning, Effective HRP.

Unit 3: (10 hours)

Recruitment: Definition, Constraints and Challenges, Sources and Methods of Recruitment, New Approaches to recruitment.

Selection: Definition and Process of Selection.

Placement: Meaning, Induction/Orientation, Internal Mobility, Transfer, Promotion, Demotion and Employee Separation.

Unit 4: (8 hours)

Training and development: Training v/s development, Training v/s Education, Systematic Approach to Training, Training Methods.



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Unit 5: (10 hours)

Performance Appraisal: Concept of Performance Appraisal, the Performance Appraisal Process, Methods of Performance Appraisal

Compensation: Objectives of Compensation Planning, Job Evaluation, Compensation Pay Structure in India.

Unit 6: (10 hours)

Employee Welfare: Introduction, Types of Welfare Facilities and Statutory Provisions.

Employee Grievances: Employee Grievance procedure, Grievances Management in Indian Industry.

Discipline: Meaning, approaches to discipline, essential of a good disciplinary system, managing difficult employees.

Practical Components:

- Give a case and ask the students to prepare the recruitment advertisement for a newspaper.
- Expose students to standard selection tests followed in various sectors.
- Exploring training and development practices.
- Exploring performance appraisal practices in various sectors.
- Exploring employee separation practices.
- Give a job analysis case and ask the students to prepare job description and job specification.
- Ask the students to prepare an appointment letter for the post of office manager of a company known to you.

RECOMMENDED BOOKS:

- Human Resources Management: A South Asian Perspective, Denski/Griffin/Sarkar- Cengage Learning, 2012.
- Human Resource Management – Rao V. S. P, Excel BOOKS, 2010
- Human Resource Management - Lawrence S. Kleeman, Biztantra , 2012.
- Human Resource Management – Dr. T.P RenukaMurthy HPH

REFERENCE BOOKS:

- Human Resource Management - John M. Ivancevich, 10/e, McGraw Hill.
- Human Resource Management in practice - Srinivas R. Kandula, PHI, 2009
- Managing Human Resources - Luis R Gomez-Mejia, David B. Balkin, Robert L. Cardy, 6/e, PHI, 2010.
- Human Resource Management & Industrial relations, P.Subba Rao, Himalaya Publishing House, Mumbai.
- Human Resource Management – Aswathappa K HPH



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BUSINESS LAW AND POLICY

Subject Code : 16MBA24 IA Marks : 20

No. of Lecture Hours / Week : 03 Exam Hours : 03

Total Number of Lecture Hours : 56 Exam Marks : 80

Practical Component : 02 Hours / Week

Objectives:

- To understand the legal environment of business and complexities faced by businesses.
- To learn various legal provisions under Indian Companies Act.
- To understand the importance of Corporate Social Responsibility

Course Outcome:

At the end of the course students will be able to:

- _ Demonstrate awareness towards legal and regulatory context of business
- _ Recognize and appropriately respond to ethical, legal and strategic concerns relating to human resource and organizational management.
- _ Gain insights into various acts and understand the significance of corporate governance

Unit 1 (10 Hours)

Indian Contract Act, 1872-meaning of contract, agreement, essential elements of a valid contract. Law of agency-meaning, creation and termination of agency. Bailment and Pledgemeanings rights and duties of bailor and bailee.

Unit 2: (10 Hours)

Companies Act 1956- Meaning and features, kinds of companies, registration and incorporation, Memorandum of Association, & Articles of Association, Prospectus. Winding up of companies

Unit 3: (10 Hours)

Miscellaneous Acts-Meaning, scope and objectives of: (a) Intellectual Property Law (relating to patents, copyrights and trademarks): (b) Consumer Protection Act 1986 and (c) Environment Protection Act 1986,

Unit 4: (10 Hours)

Indian Partnership Act 1932 - THE NATURE OF PARTNERSHIP- Introduction of a partner- Admission of the partner -Retirement of a partner- Expulsion of a partner - Insolvency a partner - Liability of estate of deceased partner

Unit 5: (8 Hours)

Corporate Governance: Introduction, Definition, Issues in corporate governance, relevance of corporate governance, need and importance of corporate governance, benefits of good corporate governance. **Obligation to society**, investors, employees and customers, managerial obligation, Indian cases

Unit 6: (8 Hours)

Corporate Social Responsibility: Types and nature of social responsibilities, CSR principles and strategies, models of CSR, Best practices of CSR, Need of CSR, Arguments for and against CSR, CSR in Indian perspective, Indian examples. Latest trends in CSR

Practical Components:



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- Students are expected to study any five CSR initiatives by Indian organizations and submit a report for the same.
- A group assignment on the relationship between Business, Law and Society in Indian context
- Case studies/Role plays related ethical issues in business with respect to Indian context.
- Students to collect, analyse and discuss MA, AA & Prospectus of a company.
- Organize a programme on consumer awareness and consumer rights.

RECOMMENDED BOOKS:

- Business, Government, and Society: A Managerial Perspective, Text and Cases – John F. Steiner, 12/e, McGraw-Hill, 2011.
- Business and Government – Francis Cherunilam, HPH.
- Corporate Governance: principles, policies and practices – Fernando A. C, 2/e, Pearson, 2011.
- Business Ethics and Corporate Governance - Ghosh B. N, Tata McGraw-Hill, 2012.
- Business Law for Managers, Goel P. K, Biztantra, 2012.
- Corporate Social Responsibility: A Study of CSR Practices in Indian Industry, Baxi C. V & Rupamanjari Sinha Ray, Vikas Publishing House, 2012.

REFERENCE BOOKS:

- Business and Society - Lawrence and Weber, 12/e, Tata McGraw- Hill, 2010.
- Business Ethics - Bajaj P. S & Raj Agarwal, Biztantra, 2012.
- Corporate Governance - Keshoo Prasad, 2/e, PHI.
- Corporate Governance, Ethics and social responsibility - Balachandran V, & Chandrashekharan V, 2/e, PHI, 2011.
- Corporate Governance – Machiraju H. R, HPH.
- Business Ethics and Corporate Governance – Prabakaran S, Excel BOOKS.
- Corporate Governance – Badi N. V, Vrinda Publications, 2012



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MCA

SCHEME OF TEACHING AND EXAMINATION MASTER OF COMPUTER APPLICATIONS

IV SEMESTER

S. No	Subject Code	Title	Teaching Hrs /		Duration	Examination		
			Theory	Practical		Mar		
						IA	Exam	Total
1	13MCA41	Analysis & Design of	04	-	03	50	100	150
2	13MCA42	Advanced Java Programming	04	-	03	50	100	150
3	13MCA43	Advanced Web Programming	04	-	03	50	100	150
4	13MCA44	Elective-2	04	-	03	50	100	150
5	13MCA45	Elective-3	04	-	03	50	100	150
6	13MCA46	Algorithms Lab	-	03	03	50	50	100
7	13MCA47	Advanced Java Lab	-	03	03	50	50	100
8	13MCA48	Mini Project-I	-	03	03	50	50	100
TOTAL			20	09		400	650	1050

Elective-2		Elective 3	
13MCA441	Advanced Computer Networks	13MCA451	Cryptography & Network Security
13MCA442	Data Warehousing & Data Mining	13MCA452	Network Management
13MCA443	Mobile Computing and Wireless Communications	13MCA453	NOSQL
13MCA444	Software Testing and Practices	13MCA454	Software Architectures
13MCA445	Theory of Computation (FAFL)	13MCA455	Enterprise Resource Planning (ERP)
13MCA446	Digital Image Processing	13MCA456	Mobile Applications

Cryptography & Network Security

Subject Code: 13MCA451 I.A. Marks : 50

Hours/Week: 04 Exam Hours: 03

Total Hours: 52 Exam Marks : 100

Introduction 3 Hours

OSI Security Architecture, Security Attacks, Security Services, Security Mechanism, Model for Network Security.

Classical Encryption Technique 5 Hours

Symmetric Cipher Model, Substitution Techniques, Transposition Techniques.

Block Ciphers, Data Encryption Standard and Advanced Encryption Standard 8 Hours



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Block Cipher Principles, The Data Encryption Standard, Block Cipher Design Principles and Modes of operation, Evaluation Criteria for AES, AES Cipher-Encryption and Decryption, Data Structure, Encryption Round.

Public Key Cryptography and Key Management 6 Hours

Principles of Public Key Cryptosystem, RSA algorithm, Key management, Diffie Hellman Key exchange

Message Authentication and Hash Function 6 Hours

Authentication Requirement, Authentication Functions, Message Authentication Code, Hash Functions, Digital Signatures, Digital Signature Standard

Authentication Applications 5 Hours

Kerberos, X.509 Authentication Service

Electronic Mail Security 5 Hours

Pretty Good Privacy (PGP), S/MIME

IP Security 5 Hours

IP Security Overview; IP Security Architecture; Authentication Header; Encapsulating Security Payload; Combining Security Associations; Key Management.

Web Security 5 Hours

Web Security Considerations; Secure Socket layer (SSL) and Transport layer Security (TLS); Secure Electronic Transaction (SET)

System Security 4 Hours

Intruders, Intrusion Detection, Firewall Design Principles- Characteristics, Types of Firewall and Firewall Configuration.

82

Text Books:

William Stallings, "Cryptography and NetworkSecurity – Principles and Practices", 4th Edition, Pearson Education, 2009. (Chapters: 1, 2.1-2.3, 3.1,3.2,3.5, 5.1,5.2, 6.2, 9.1,9.2, 10.1,10.2, 11.1-11.4, 13.1, 13.3, 14.1, 4.2, 15.1, 15.2, 16.1-16.6, 17.1-17.3, 18.1, 18.2, 20.1; Exclude the topic not mentioned in the syllabus)

Reference Book:

1.Behrouz A. Forouzan and DebdeepMukhopadhyay: "Cryptography and Network Security", 2nd Edition, Tata McGraw-Hill, 2010.

2.AtulKahate, "Cryptography and NetworkSecurity" 2nd Edition TMH.

1.3.1. Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum(2017-2018)

1)2nd Year / 3rd Semester

IntellectualPropertyProperty(16MCA351)



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III Semester		CREDIT BASED						
Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Assignment		CIE	SEE		
16MCA31	Computer Networks	4	--	3	20	80	100	4
16MCA32	Java Programming	4	--	3	20	80	100	4
16MCA33	Analysis and Design of Algorithms	4	--	3	20	80	100	4
16MCA34	Software Engineering	4	--	3	20	80	100	4
16MCA35	Elective 1	3	--	3	20	80	100	3
16MCA36	Computer Networks Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA37	Java Programming Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA38	Analysis and Design of Algorithms Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
Total		19	09	24	160	640	800	25

Elective- 1

16MCA351	Intellectual Property Rights
16MCA352	Enterprise Resource Planning(ERP)
16MCA353	MIS & E-Commerce
16MCA354	Cyber Security

IntellectualPropertyProperty

[As per Choice Based Credit System (CBCS) scheme]

SEMESTER –III

Subject Code	16MCA351	CIE Marks	20
Number of Lecture Hours/Week	03	SEE Marks	80
Total Number of Lecture Hours	40	SEE Hours	03

CREDITS – 03

Course Outcome (CO): At the end of this course, the students will be able to



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CO1: Identify which of the four main different types of **IntellectualPropertyProperty** may be represented by an output

CO2: Analyse an innovative or creative output in terms of **IntellectualPropertyProperty** generated

CO3: Discuss the appropriateness, or not, of registering an **IntellectualProperty** right

CO4: Apply the appropriate ownership rules to **IntellectualProperty** he / she has been involved in creating

CO5: Suggest ways of exploiting **IntellectualPropertyProperty** created in his / her own work.

Modules	Teaching Hours
Module -1	8 Hours
Introduction to IntellectualProperty Law – The Evolutionary Past - The IPR Tool Kit-	
Para -Legal Tasks in IntellectualProperty Law – Ethical obligations in Para Legal Tasks	
in IntellectualProperty Law - Introduction to Cyber Law – Innovations and Inventions	
Trade related IntellectualPropertyRight ..	
Module -2	8 Hours
Introduction to Trade mark – Trade mark Registration Process – Post registration	
Procedures – Trade mark maintenance - Transfer of Property - Inter parties Proceeding	
– Infringement - Dilution Ownership of Trade mark – Likelihood of confusion - Trademarks claims – Trademarks Litigations – International Trade mark Law	
Module -3	8 Hours
Introduction to Copy Property – – Principles of Copyright Principles -The subjects Matter	
of Copy right – The Property Afforded by Copyright Law – Copy right Ownership,	
Transfer and duration – Right to prepare Derivative works – Property of Distribution –	
Property of Perform the work Publicity Copyright Formalities and Registrations -	



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Limitations - Copyright disputes and International Copyright Law – Semiconductor	
Chip Protection Act	
Module -4	8 Hours
The law of patents-patent searches –Patent ownership and transfer-Patent	
infringement-International Patent Law	
Module -5	8 Hours
Introduction to Trade Secret – Maintaining Trade Secret – Physical Security –	
Employee Limitation - Employee confidentiality agreement - Trade Secret Law -	
Unfair Competition – Trade Secret Litigation – Breach of Contract – Applying State	
Law	

Question paper pattern:

- ☐ The question paper will have ten questions.
- ☐ Each full question consists of 16 marks.



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- ② There will be 2 full questions (with a maximum of four sub questions) from each module.
- ② Each full question will have sub questions covering all the topics under a module.
- ② The students will have to answer 5 full questions, selecting one full question from each module.

Text Books:

1. DebiragE.Bouchoux: "IntellectualProperty". Cengage learning, New Delhi
2. M.Ashok Kumar and Mohd.Iqbal Ali: "IntellectualProperty Right" Serials Pub.
3. Cyber Law. Texts & Cases, South-Western's Special Topics Collections.

Reference Books:

1. PrabhuddhaGanguli: 'IntellectualPropertyProperty' Tata Mc-Graw –Hill, New Delhi
2. J Martin and C Turner "IntellectualProperty" CRC Press Richard Stimm "IntellectualProperty" Cengage Learning

2)2nd Year / 4th Semester Seminar(16MCA49)

IV Semester				CREDIT BASED				
Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Assignment		CIE	SEE		
16MCA41	Advanced Java Programming	4	--	3	20	80	100	4
16MCA42	Advanced Web Programming	4	--	3	20	80	100	4
16MCA43	Software Testing and Practices	4	--	3	20	80	100	4
16MCA44	Elective-2	3	--	3	20	80	100	3
16MCA45	Elective-3	3	--	3	20	80	100	3



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16MCA4 6	Advanced Java Programming Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA4 7	Advanced Web ProgrammingLaborat ory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA4 8	Software Testing Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA4 9	Seminar	--	2	--	50	--	50	1
Total		18	11	24	210	640	850	25

16MCA49 and 16MCA59: Seminar

- Students should present the seminar on cutting edge/emerging/state of the art technologies in the field of Computer Science and Applications.



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2017 – 18



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INSTITUTIONAL CURRICULUM COMMITTEE MEETING 2017-2018 –(ODD)

The reconstitution of the Institutional curriculum committee was made and the meeting was held on 25/07/2017 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION	COMMITTEE DESIGNATION
1.	Dr R V Praveena Gowda	Principal	Chair Person
2.	Dr R J Anandhi	Vice Principal & HOD-CSE	Member Coordinator
3.	Dr D Jayaramaiah	HOD-ISE	Member
4.	Dr Manju Devi	HOD-ECE	Member
5.	Dr V S Bharath	HOD-EEE	Member
6.	Dr G S Bhatt	HOD-ME	Member
7.	Dr Kusum Paul	HOD-BT	Member
8.	Dr Amarnath K	HOD-Civil	Member
9.	Dr N B Doddapattar	HOD-MTE	Member
10.	Dr Raju B R	HOD-AUTO	Member
11.	Prof N Chiranthana	HOD-CTM	Member
12.	Dr Mallikarjuna K	HOD-Maths	Member
13.	Dr Vijayakumaran Nair	HOD-Physics	Member
14.	Dr Surekha M	HOD-Chemistry	Member
15.	Dr James Thomas	HOD-MBA	Member
16.	Dr M S Shashidhara	HOD-MCA	Member
17.	Dr Sridhar Rajan	Principal (B-Arch)-TOSA	Member

Agenda:

- Prescribed syllabus by VTU to be followed.
- Preparation of TIME TABLE for ODD semester 2017-18
- B.E / B.Arch (UG) Time Table and PG - Time Table



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- Faculties to participate in BOS / Academic council and question paper designing - evaluation and assessment.
 - Implementation of Enrichment Courses.
 - Implementation of Interdisciplinary/ Interdepartmental courses.
 - Implementation of Value-added courses.
 - Implementation of Field visits / industry visits.
 - Implementation of internships / community posting
 - Implementation of action on Feedback analysis report.

Summary: Minutes

The committee is composed of Principal, Dean Academics and Head of all departments. The above-mentioned agenda was discussed and resolutions were formed. These were circulated to all the concerned departments and were recommended to be inculcated in their respective department curriculum meeting and implementation of the same. Two subjects per faculty member and one subject to HOD and to offer TWO – electives for 60 intakes and THREE – electives for 120 intakes during V and VII semester.

Resolutions:

- It has been informed to all HOD's to implement the latest prescribed syllabus by VTU in the respective department.
- HOD's should ensure and make their maximum efforts to make their faculties to participate In BOS and academic council members in affiliated university as well as outside universities
- It is decided to implement 2 enrichment courses for each department and an action plan to be submitted one week after this meeting.
- It is decided to implement 2 value added courses for each department and an action plan to be submitted one week after this meeting.
- It is decided to implement 2 interdisciplinary courses for each department and an action plan to be submitted one week after this meeting.
- It is decided to implement 1 field visit for each department and an action plan to be submitted one week after this meeting.


Dr. R V Praveena Gowda
PRINCIPAL

The Oxford College of Engineering
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Bangaluru-560 068;



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INSTITUTIONAL CURRICULUM COMMITTEE MEETING 2017-2018 –(EVEN)

The reconstitution of the Institutional curriculum committee was made and the meeting was held on 31/01/2018 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION	COMMITTEE DESIGNATION
1.	Dr R V Praveena Gowda	Principal	Chair Person
2.	Dr R J Anandhi	Vice Principal & HOD-CSE	Member Coordinator
3.	Dr D Jayaramaiah	HOD-ISE	Member
4.	Dr Manju Devi	HOD-ECE	Member
5.	Dr V S Bharath	HOD-EEE	Member
6.	Dr N B Doddapattar	HOD-ME	Member
7.	Dr B K Manjunath	HOD-BT (in-charge)	Member
8.	Dr Amarnath K	HOD-Civil	Member
9.	Dr Jayanthi Kumari T R	HOD-MT	Member
10.	Dr Raju B R	HOD-AUTO	Member
11.	Prof Shivakumar	HOD-CTM (In-charge)	Member
12.	Dr Mallikarjuna K	HOD-Maths	Member
13.	Dr Vijayakumaran Nair	HOD-Physics	Member
14.	Dr Surekha M	HOD-Chemistry	Member
15.	Dr James Thomas	HOD-MBA	Member
16.	Dr M S Shashidhara	HOD-MCA	Member
17.	Dr Sridhar Rajan	Principal (B-Arch)-TOSA	Member

Agenda: Minutes

- To review that prescribed syllabus is being followed.
- To review implementation of time table for 2017- 18 even
- To review the efforts made by the faculties in participating in BOS/ Academic council and question paper designing – evaluation and assessment



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- To review on enrichment courses/Value added courses, Field visits/Industry visit and Internship/Community posting conducted and report submitted.
- To review implementation and delivery of cross cutting issues.

Summary: Minutes

The committee is composed of Principal, Dean Academics and Head of all departments. The above-mentioned agenda was discussed and resolutions were formed. These were circulated to all the concerned departments and were recommended to be inculcated in their respective department curriculum meeting and implementation of the same.

Resolution:

- The approved syllabus is followed.
- The classes were conducted and attendance was checked.
- The committee was proud to inform that few faculties have become members of BOS and BOE of many Autonomous colleges and deemed universities
- One enrichment course and one value added course has been done and the report is satisfactory.
- It has been advised to maintain an Attendance register, circular, reports and photographs for the activities conducted.


Dr. R V Praveena Gowda
PRINCIPAL
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Departmental Committee Meeting – (CSE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 –(ODD)

The department curriculum committee was made and the meeting was held on 25/07/2017 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr.AnandhiR.J	Professor & HOD
2	Dr. E Saravana Kumar	Professor
3	Dr. Nirmala	Professor
4	Dr. Tamanna Jena	Assot. Professor
5	Ms. Shobha T	Assot. Professor
6	Mr. Senthil Kumar	Assot. Professor
7	Ms. Seema Patil	Assot. Professor
8	Ms. Gousia T	Assot. Professor
9	Ms. Sowmya H K	Assot. Professor
10	Ms. Shilpa Kamman	Asst. Professor
11	Ms. Koyel Sinha Chowdhury	Asst. Professor
12	Ms. Chandanita Thakur	Asst. Professor
13	Ms. Maragatham	Asst. Professor
14	Ms. Florance G	Asst. Professor
15	Mr. Naveen H S	Asst. Professor
16	Ms. Sushma Gunjal	Asst. Professor
17	Ms. Jesy Janet Kumari	Asst. Professor
18	Ms. AnarghaRemesh	Asst. Professor
19	Ms. Latha R	Asst. Professor
20	Ms. Mary Nathisiya B	Asst. Professor
21	Ms. Archana R	Asst. Professor
22	Ms. Sushma T Shanbhogue	Asst. Professor



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23	Ms. MoutushiKar	Asst. Professor
----	-----------------	-----------------

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

19. HOD, Dr. R J Anandhi welcomed all the faculty and explained VTU, ODD semester regulations.

20. As per the VTU regulation guidelines the students of all Odd semester should follow it.

21. VTU has introduced Choice Based Credit System (CBCS).

22. Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE	
1.	15CS551	Object Oriented Modeling and Design
2.	15CS563	Embedded Computing Systems

23. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.

24. Department announced to conduct the regular seminars to the students.

25. Department plans for Field Visit / Industrial Visit.

26. Planning for the Final Year's Project Works / Internships.

27. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2017 – 2018 odd semester

Sl. No.	Name of the Certificate Program
1	GIT (Spoken Tutorial)



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2	RUBY (Spoken Tutorial)
3	C (Spoken Tutorial)
4	Introduction to Computers (Spoken Tutorial)
5	JAVA (Spoken Tutorial)
6	BASH (Spoken Tutorial)
7	C++ (Spoken Tutorial)

The following value-added programs will be conducted during 2017 – 2018 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
6.	CSE	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


HOD/CSE

HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
BENGALURU - 560 068



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Departmental Committee Meeting – (CSE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 –(EVEN)

The department curriculum committee was made and the meeting was held on 31/01/2018 and the following members were present for the meeting.

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16	Ms. Sushma Gunjal	Asst. Professor
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18	Ms. AnarghaRemesh	Asst. Professor
19	Ms. Latha R	Asst. Professor
20	Ms. Mary Nathisiya B	Asst. Professor
21	Ms. Archana R	Asst. Professor
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23	Ms. MoutushiKar	Asst. Professor
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Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

32. HOD, Dr. R J Anandhi, welcomed all the faculty and explained VTU, EVEN semester regulations.

33. Semester plan for 2017-18 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE	
1.	15CS651	Data Mining and Data Warehousing
2.	15CS664	Python Application Programming

34. The discussion of the subjects of CBCS given in the above table, selected by the students.

35. Syllabus copy prescribed by the university circulated to the students and faculty.

36. Department announced to conduct the regular seminars to the students.

37. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

38. Department plans for Field Visit / Industrial Visit.

39. Planning for the Final Year's Project Works / Internships.

40. Mentor mentee list – discussion

41. The following certificate programs will be conducted during 2017 – 2018 EVEN semester

42.

Sl. No.	Name of the Certificate Program
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1	PHP & MySQL (Spoken Tutorial)
2	BLENDER (Spoken Tutorial)
3	LINUX (Spoken Tutorial)
4	JAVA (Spoken Tutorial)
5	C (Spoken Tutorial)
6	DevOps
7	Big Data Hadoop

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


HOD/CSE

HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
BENGALURU - 560 068



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2017-18 (EVEN)

Departmental Committee Meeting – Information Science and Engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 – (EVEN)

The department curriculum committee was made and the meeting was held on 01/02/2018 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr.Jayaramaiah. D	HOD
2.	Mrs.Karthiyaini	Assot. Prof.
3.	Mrs.Vinodha K	Assot. Prof.
4.	Ms. Visalini S	Assot. Prof.
5.	Ms. KalaiSelvi	Asst. Prof.
6.	Ms. Kokila P	Asst. Prof.
7.	Mrs.Chempavathy B	Asst. Prof.
8.	Ms. Suganya R	Asst. Prof.
9.	Mr. Channappa Gowda	Asst. Prof.
10.	Ms. Chitra G	Asst. Prof.
11.	Ms. InduK.S	Asst. Prof.
12.	Mrs.Prathiba.K.N	Asst. Prof.
13.	Mr. Karthik S L	Asst. Prof.
14.	Mrs.Halaharvi Keerthi	Asst. Prof.
15.	Ms.Radha.D.N	Asst. Prof.
16.	Ms.Geethanjali	Asst. Prof.



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17.	Mrs.VijayaLaxmiPatil	Asst. Prof.
18.	Ms.LohithaMalli Reddy	Asst. Prof.

Agenda:

7. Semester plan
8. Introduction of syllabus based on CBCS scheme
9. Conduction of seminars
10. Plan for Field Visit/ Industrial Visit
11. Plan for the (Final Year's) Project Works / Internships
12. Allotment the assignment topics and tutorial topics
13. Plan for mentoring activities

Summary: Minutes

1. HOD, Dr.Jayaramaiah. D welcomed all the faculty and explained VTU, ODD semester regulations.
2. Semester plan for 2016-17 even semester and mentioning the activities planned in the department.
3. The discussion of the subjects of CBCS selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the (Final Year's) Project Works / Internships (with company names and details).
9. Mentor mentee list – discussion
10. The following certificate programs will be conducted during 2017 – 2018 EVEN semester



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Sl. No.	Name of the department	Name of the Certificate Program
3.	Information Science and Engineering	Network Security
2.	Information Science and Engineering	IoT

11. The following value-added programs will be conducted during 2017– 2018 EVEN semester

Sl. No.	Name of the department	Name of the Value-added programs
7.	Information Science and Engineering	Soft skill training

Resolutions:

1. Faculty members are informed to motivate the students to involve in the Research activities.
2. Toppers from each semester to be motivated to get VTU ranks.
3. Result percentage of forthcoming semester to be improved.

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HOD



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2017-18 (ODD)

Departmental Committee Meeting – Information Science and Engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 – (ODD)

The department curriculum committee was made and the meeting was held on 26/07/2017 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr.Jayaramaiah. D	HOD
2.	Mrs.Karthiyaini	Assot. Prof.
3.	Mrs.Vinodha K	Assot. Prof.
4.	Ms. Visalini S	Assot. Prof.
5.	Ms. KalaiSelvi	Asst. Prof.
6.	Ms. Kokila P	Asst. Prof.
7.	Mrs.Chempavathy B	Asst. Prof.
8.	Ms. Suganya R	Asst. Prof.
9.	Mr. Channappa Gowda	Asst. Prof.
10.	Ms. Chitra G	Asst. Prof.
11.	Ms. InduK.S	Asst. Prof.
12.	Mrs.Prathiba.K.N	Asst. Prof.
13.	Mr. Karthik S L	Asst. Prof.
14.	Mrs.Halaharvi Keerthi	Asst. Prof.
15.	Ms.Radha.D.N	Asst. Prof.
16.	Ms.Geethanjali	Asst. Prof.
17.	Mrs.VijayaLaxmiPatil	Asst. Prof.



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18.	Ms.LohithaMalli Reddy	Asst. Prof.
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Agenda:

1. Semester plan
2. Value-added and certificate programs
3. Conduction of seminars
4. Plan for Field Visit/ Industrial Visit
5. Plan for the (Final Year's) Project Works / Internships
6. Allotment the assignment topics and tutorial topics

Summary: Minutes

1. HOD, Dr.Jayaramaiah. D welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS)
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans for Field Visit/ Industrial Visit.
7. Planning for the (Final Year's) Project Works / Internships (with company names and details).
8. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2017 – 2018 odd semesters

Sl. No.	Name of the department	Name of the Certificate Program
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4.	Information Science and Engineering	Network Security
2.	Information Science and Engineering	IoT

The following value-added programs will be conducted during 2017– 2018 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
8.	Information Science and Engineering	Soft skill training

Resolutions:

4. Faculty members are informed to motivate the students to involve in the Research activities.
5. Toppers from each semester to be motivated to get VTU ranks.
6. Result percentage of forthcoming semester to be improved.

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HOD



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ECE

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018(ODD)

The Department curriculum committee was made and the meeting was held on 26/07/2017 and the following members were present for the meeting.

Sno.	NAME	DESIGNATION
1	Dr.Vivek.M	Professor
2	Dr.PreetiSharan	Professor
3.	Mr.N.Jayaraj	AssociateProf
4	Ms.SajithraVarun	AssociateProf
5	Mr.Piruthviraj.P	AssociateProf
6	Mr.N.Sridhar	AssociateProf
7	Ms.ChrispinJiji	Asst.Professor
8	Mr.Ravindra.V.S	Asst.Professor
9	Ms.SowmyaPadukone.G	Asst.Professor
10..	Mr.BhargavRamGowd	Asst.Professor
11.	Ms.LayaTojo	Asst.Professor
12.	Ms.Chandrakala.S	Asst.Professor
13	Ms.Aruna.J	Asst.Professor
14..	Mr.ManjunathSheth	Asst.Professor
15	Mr.Veeresh.H	Asst.Professor
16	Mr.Anand.K.Warad	Asst.Professor
17	Mr.RichardLincolnPaulraj	Asst.Professor



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18.	Ms.SoniyaJames	Asst.Professor
19	Ms.Lakshmi.R	Asst.Professor
20	Mr.AravindReddy	Asst.Professor
21	MttuGeorge	Asst.Professor
22	Dhanya	Asst.Professor
23	JagadeeshwarReddy	Asst.Professor
24	Vaibhav	Professor
25	Dr.Manju Devi	Prof&HOD
26	Dr.AnilTiwari	Professor
27	VarshaParihar	Asst.Professor
28	Rani.B.A	Asst.Professor
29	Megha.M.S	Asst.Professor
30	Poojashri.C.S	Asst.Professor
31	Bindu.P	Asst.Professor
32	PraveenKumar	Asst.Professor

Agenda:

1. Odd Semester Plan for Academics & Co- urricular

Activities

2.Introduction of CBCS& orientation for Students

3.Arrangementof Seminars, Field Visits&Industrial Visit to



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Students 4. Conduction of Project Work, Internship work to

Students

Summary: Minutes of meeting

, Dr. Manju Devi, HOD & Prof welcomed all the faculty and explained VTU, ODD Semester regulations.

1. Semester plan for 2017-18 ODD semester and mentioning the activities planned in the Department.

Sl. No.	Name of the Department	CBCS
1.	ECE	2017-18 Scheme

2. The discussion of the subjects of CBCS given in the above table, selected by the students.

3. As per the VTU regulation guidelines the students of B.E. have to select one subject from the MOOCS-I, MOOCS-II & MOOCS-III

Sl. No	Name of the Department	MOOCS-I	MOOCS-II	MOOCS-III
1.	ECE	Multimedia Communication	Digital Switching Systems	Operating System

4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminar to the students.
6. Department plan to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit/Industrial Visit.
8. Planning for the (Final Year's) Project Works/Internships (with company names and details).
9. Mentor mentee list - discussion



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10. The following certificate programs will be conducted during
2017 – 2018 ODD semester.

Sl.No.	Name of the department	Name of the Certificate Program
1.	ECE	National Workshop on Remote Sensing


11. The following value-added programs will be conducted during
2017 – 2018 ODD Semester

Sl.No.	Name of the department	Name of the Certificate Program
1.	ECE	ARM7 & Embedded-C Addon Program

Resolutions:

The HOD & Faculties of the Department will do the Resolution that We all will work towards the overall growth of the Department, Students & Organization.

HOD


Professor & HOD of E&C Engineering
The Oxford College of Engineering
Bommanahalli, Bangalore - 560 068.



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DEPARTMENTAL CURRICULUMCOMMITTEE MEETING – ECE

DEPARTMENTAL CURRICULUMCOMMITTEE MEETING 2017-2018--(EVEN) ECE
The Department curriculum committee was made and the meeting was held on 1/02/2018 and the following members were present for the meeting.

Slnno.	NAME	DESIGNATION
1	Dr.Vivek.M	Professor
2	Dr.PreetaSharan	Professor
3.	Mr.N.Jayaraj	AssociateProf
4	Ms.SajithraVarun	AssociateProf
5	Mr.Piruthviraj.P	AssociateProf
6	Mr.N.Sridhar	AssociateProf
7	Ms.ChrispinJiji	Asst.Professor
8	Mr.Ravindra.V.S	Asst.Professor
9	Ms.SowmyaPadukone.G	Asst.Professor
10..	Mr.BhargavRamGowd	Asst.Professor
11.	Ms.LayaTojo	Asst.Professor
12.	Ms.Chandrakala.S	Asst.Professor
13	Ms.Aruna.J	Asst.Professor
14..	Mr.ManjunathSheth	Asst.Professor
15	Mr.Veeresh.H	Asst.Professor
16	Mr.Anand.K.Warad	Asst.Professor



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18.	Ms.SoniyaJames	Asst.Professor
19	Ms.Lakshmi.R	Asst.Professor
20	Mr.AravindReddy	Asst.Professor
21	MttuGeorge	Asst.Professor
22	Dhanya	Asst.Professor
23	JagadeeshwarReddy	Asst.Professor
24	Vaibhav	Professor
25	Dr.Manju Devi	Prof&HOD
26	Dr.AnilTiwari	Professor
27	VarshaParihar	Asst.Professor
28	Rani.B.A	Asst.Professor
29	Megha.M.S	Asst.Professor
30	Poojashri.C.S	Asst.Professor
31	Bindu.P	Asst.Professor
32	PraveenKumar	Asst.Professor

Agenda:

1.Even Semester Plan for Academics & Co-Curricular
Activities

2.Introduction of CBCS&orientationforStudents

3.ArrangementofSeminars,FieldVisits&IndustrialVisittoStu



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dents 4. Conduction of Project Work, Internship work to

Students

Summary: Minutes of meeting

, Dr. Manju Devi, HOD & Prof welcomed all the faculty and explained VTU, EVEN Semester regulations.

5. Semester plan for 2017-18 Even Semester and mentioning the activities planned in the Department.

Sl.No.	Name of the department	Name of the Certificate Program
1.	ECE	NCSEM-2018


6. The following value-added programs will be conducted during 2017 – 2018 Even Semester

Sl.No.	Name of the department	Name of the Certificate Program
1.	ECE	Workshop on Arduino & Robotics

Resolutions:

The HOD & Faculties of the Department will do the Resolution that we all will work towards the overall growth of the Department, Students & Organization.

HOD


Professor & HOD of E&C Engineering
The Oxford College of Engineering
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THE OXFORD COLLEGE OF ENGINEERING

Departmental Committee Meeting – (EEE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 –(ODD)

The department curriculum committee was made and the meeting was held on 21/07/2017 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr.Bharath.V.S	Prof.& HOD
2	Dr.V.Chinnappan	Prof
3	Dr.Sidheshwarprasad	Prof
4	Dr.Gurumurthy	Prof.
5	Dr.Puneet Kaur	Assoc. Prof.
6	Dr.Gangadhara Swami	Prof.
7	Mrs.SandhyaRai	Assoc. Prof.
8	Mr.N.Jayakumar	Assoc. Prof.
9	Mrs.Nisha.C.Rani	Assoc. Prof.
10	Mrs.B.DeviVighneshwari	Assoc. Prof.
11	Mrs.Raichel Ruby	Assoc. Prof.
12	Mrs.Manjula.C	Assoc. Prof.
13	Mrs.Viji.K	Asst. Prof.
14	Mrs.NalinaKumari	Asst. Prof
15	Mr.Muniyappa	Asst. Prof.
16	Mrs.Thilaga.P	Asst. Prof.
17	Mrs.AnupamaSisodiya	Asst. Prof.
18	Mrs.NavathaKumari	Asst. Prof.
19	Mrs.Sumitha.T.L	Asst. Prof.



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20	Mrs.Someswari	Asst. Prof.
21	Mrs.ArutselviNagammai	Asst. Prof.
22	Ms.Pavithra.P.S	Asst. Prof.
23	Ms.Deepa.N.Raju	Asst. Prof.
24	Mrs.Vinutha.Y.E	Asst.Prof.
25	Mrs.Thiruvonasundari.D	Asst.Prof.
26	Ms.Savitha.M	Asst.Prof.
27	Ms.Swapna.C.M	Asst.Prof.
28	Mrs.Resna.S.R	Asst.Prof
29	Ms.Deepa.R	Asst.Prof
30	Ms.KavyaShree.C.M	Asst.Prof
31	Ms.Bhuvaneswari.M	Asst.Prof.
32	Mrs.Savitha	Asst.Prof.

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship

Minutes of Meeting:

1. HOD, Dr.Bharath.V.S welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.



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Sl. No.	CBCS ELECTIVE/MATDIP	
1	10EE751	HVDC Transmission
2	10EE762	Computer control of Electrical drives
3	10EE764	VLSI Circuit and Design
4	15KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
5	15MATDIP31	Additional Mathematics –I


5. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
6. Department announced to conduct the regular seminars to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2017 – 2018 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	EEE	Technical Skill Training on "AUTOMATION (PLC&SCADA), DRIVES, LV SWITCHGEAR"
2.	EEE	Technical Skill Training on "EMBEDDED SYSTEM -CRANES VARSITY"

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Professor in Charge EEE
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Bommanahalli, Hosur Road
Bangalore-560 068



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THE OXFORD COLLEGE OF ENGINEERING

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E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

Departmental Committee Meeting – (EEE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 –(EVEN)

The department curriculum committee was made and the meeting was held on 17/02/2018 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr.Bharath.V.S	Prof.& HOD
2	Dr.V.Chinnappan	Prof
3	Dr.Sidheshwarprasad	Prof
4	Dr.Gurumurthy	Prof.
5	Dr.Puneet Kaur	Assoc. Prof.
6	Dr.Gangadhara Swami	Prof.
7	Mrs.SandhyaRai	Assoc. Prof.
8	Mr.N.Jayakumar	Assoc. Prof.
9	Mrs.Nisha.C.Rani	Assoc. Prof.
10	Mrs.B.DeviVighneshwari	Assoc. Prof.
11	Mrs.Raichel Ruby	Assoc. Prof.
12	Mrs.Manjula.C	Assoc. Prof.
13	Mrs.Viji.K	Asst. Prof.
14	Mrs.NalinaKumari	Asst. Prof
15	Mr.Muniyappa	Asst. Prof.
16	Mrs.Thilaga.P	Asst. Prof.
17	Mrs.AnupamaSisodiya	Asst. Prof.
18	Mrs.NavathaKumari	Asst. Prof.
19	Mrs.Sumitha.T.L	Asst. Prof.
20	Mrs.Someswari	Asst. Prof.
21	Mrs.ArutselviNagammai	Asst. Prof.
22	Ms.Pavithra.P.S	Asst. Prof.



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23	Ms.Deepa.N.Raju	Asst. Prof.
24	Mrs.Vinutha.Y.E	Asst.Prof.
25	Mrs.Thiruvonasundari.D	Asst.Prof.
26	Ms.Savitha.M	Asst.Prof.
27	Ms.Swapna.C.M	Asst.Prof.
28	Mrs.Resna.S.R	Asst.Prof
29	Ms.Deepa.R	Asst.Prof
30	Ms.KavyaShree.C.M	Asst.Prof
31	Ms.Bhuvaneswari.M	Asst.Prof.
32	Mrs.Samitha	Asst.Prof.

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship

Minutes of Meeting:

1. HOD, Dr.Bharath.V.S, welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2017-18 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	10EE836	Renewable Energy Source
2	10EE842	Energy Auditing & Demand Side



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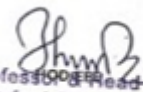
		Management
3	15KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
4	15MATDIP41	Additional Mathematics –II

3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Mentor mentee list – discussion
10. The following certificate programs will be conducted during 2017– 2018 EVEN semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	EEE	Technical Skill Training on "AUTOMATION (PLC&SCADA), DRIVES, LV SWITCHGEAR"
2.	EEE	Technical Skill Training on "EMBEDDED SYSTEM -CRANES VARSITY"

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Professor & Head EEE
The Oxford College of Engg
Bommanahalli, Hosur Road
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HOD- EEE



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Departmental Committee Meeting--(BRANCH):Mechanical engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2016-2017-- (ODD)

The department curriculum committee was made and the meeting was held on 30/7/2016 and the following members were present for the meeting.

S/no.	NAME	DESIGNATION
1	DR.G.S.BHAT	HOD
2	C.D.SRINIVAS	Professor
3	MADHUSUDHANREDDY	Professor
4	ASHOKTAWADE	Professor
5	SHIVALINGU	Professor
6	SUHASV	AssistantProfessor
7	T.V.NAGARAJA	Assistantprofessor
8	RAVIPRAKASH	AssistantProfessor
9	VIDYADHARPOOJAR	AssistantProfessor
10	VARUNK.R.	AssistantProfessor

Agenda:

1. Finalization of departmental activities for the academic year.
2. Allocation of subjects to faculties.



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3. Approval of project batch.

Summary: Minutes

1. HOD, Dr. G.S BHAT welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS)
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminar to the students.
6. Department plans for Field Visit / Industrial Visit.
7. Planning for the (Final Year's) Project Works/Internships (with company names and details).
8. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2016 – 2017

odd semester

Sl.No.	Name of the department	Name of the Certificate Program
1	Mechanical engineering	Engineering graphics
2	Mechanical engineering	Programming with microprocessor

The following value-added programs will be conducted during 2016 – 2017

odd semester

Sl.No.	Name of the department	Name of the Value-added programs
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1	Mechanicalengineering	Designofcircuitforhydraulicsfluids
2	Mechanicalengineering	Programmingwithmicroprocessor

Resolutions:

- Eachfacultyhastotaketwotheorysubjectsandonelab,outofwhichonesubjectwillbechoiceoffa cultywhiletheothersubject will beallocatedbyHOD.
- Departmental activities are to be planned as per calendar of institution and must begotapproval from principal
- Foreman is given in charge to finalise the budge allocations for variouslabs/workshopsinconsultationwithlabinchargesandfinalapprovalfrom HOD.


PROFESSOR & HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
BOMMANAHALLI, BANGALORE 560068



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Departmental Committee Meeting--(BRANCH): mechanical engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING2016-2017--(EVEN)

The department curriculum committee was made and the meeting was held on 18/01/2017 and the following members were present for the meeting.

S.No.	NAME	DESIGNATION
1	DR.G.S.BHAT	HOD
2	C.D.SRINIVAS	Professor
3	MADHUSUDHANREDDY	Professor
4	ASHOKTAWADE	Professor
5	SHIVALINGU	Professor
6	SUHASV	Assistant Professor
7	T.V.NAGARAJA	Assistant Professor
8	RAVIPRAKASH	Assistant Professor
9	VIDYADHARPOOJAR	Assistant Professor
10	VARUNK.R.	Assistant Professor



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Agenda:

1. Allocation of subject to staff.
2. Identifying lab incharges/mentors/class teachers.
3. Finalizing departmental activities to be conducted.

Summary:Minutes

1. HOD, Dr. GS BHAT welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2016-17 even semester and mentioning the activities planned in the department.

Sl.No.	Name of the Department	CBCS
1.	Mechanical engineering	3 rd &4 th semester

3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. As per the VTU regulation guidelines the students of B.E have to select one subject from the MOOCS-I, MOOCS-II & MOOCS-III

Sl.No	Name of the Department	MOOCS – I	MOOCS –II	MOOCS –III
1.	Mechanical engineering	nil	nil	nil

5. Syllabus copy prescribed by the university circulated to the students and faculty.
6. Department announced to conduct the regular seminars to the students.
7. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
8. Department plans for Field Visit/Industrial Visit.



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9. Planning for the (Final Year's) Project Works/ Internships (with company names and details).
10. Mentor mentee list – discussion
11. The following certificate programs will be conducted during 2016 – 2017
EVEN semester

Sl.No.	Name of the department	Name of the Certificate Program
1.	Mechanical engineering	nil

12. The following value-added programs will be conducted during 2016 – 2017
(EVEN semester)

Sl.No.	Name of the department	Name of the Value-added programs
2.	Mechanical engineering	nil

Resolutions:

- Allocation of subjects for staff senior staff to take first year classes.
- Class teachers /mentors/lab incharges are made.
- Lab instructors to be changed on priority basis so that each should be able to handle all mechanical labs.
- Mentor mentee list approved

PROFESSOR & HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
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Departmental Committee Meeting – BIOTECHNOLOGY

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017 -2018 –(ODD)

The department curriculum committee was made and the meeting was held on 04/08/2017 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr. B.K.Manjunath	HOD
2.	Dr. Kusum Paul	Professor
3.	Dr. T.K. Suma	Asst.Professor
4.	Prof. Valarmathy	Asst.Professor
5.	Prof. Divakara	Asst.Professor
6.	Prof. Salma Kausar.M	Asst.Professor
7.	Prof.Tanushree	Asst.Professor
8.	Prof.Shambhu	Asst.Professor
9.	Prof. Sindhu	Asst.Professor

Agenda:

1. Semester planner was decided and department level coordinators work was allotted
2. General instruction & working plan of the department to be discussed
3. Updating of course files & NBA status discussion
4. Action plan to execute department activity.
5. Other points if any to be discussed



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Summary: Minutes

1. Faculties were allotted with coordinator workload for the new academic year
2. Each faculty was assigned with theory & practical subject workload
3. faculties were asked to inform students about the digital library in the college & make use of it effectively'
4. All faculties were informed to strictly monitor the attendance & IA performance of students.
5. All faculties were informed to ensure every class performs at least 2 activities.

Resolutions:

- To achieve better results and aiming for many more VTU ranks.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the department
Dr. B.K. MANJUNATHA
Professor & Head
Department of Biotechnology
The Oxford College of Engineering
Bangaluru-560 068

HOD (SEAL)



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Departmental Committee Meeting – BIOTECHNOLOGY

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 –(EVEN)

The department curriculum committee was made and the meeting was held on 01/02/2018 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr. B.K.Manjunath	HOD
2.	Dr. T.K. Suma	Asst.Professor
3.	Prof. Valarmathy	Asst.Professor
4.	Prof. Divakara	Asst.Professor
5.	Prof. Salma Kausar.M	Asst.Professor
6.	Prof.Tanushree	Asst.Professor
7.	Prof.Shambhu	Asst.Professor
8.	Prof. Sindhu	Asst.Professor

Agenda:

1. Semester planner was decided and department level coordinators work was allotted
2. General instruction & working plan of the department to be discussed
3. Updating of course files
4. Faculty assigning of project guides, scrutinizing of project domain & title
5. Action plan to execute department activity.
6. Other points if any to be discussed

Summary: Minutes

1. HOD, Dr. Kusum Paul welcomed all the faculty and explained VTU, EVEN semester regulations.



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2. HOD informed about the Semester plan for 2017-18 even semester and mentioned the activities planned in the department.
3. Syllabus copy prescribed by the university circulated to the students and faculty.
4. Faculties were informed to make students select the elective subjects for even semester.
5. HOD informed faculty coordinator to plan for Industrial visits/ field visit.
6. Planning for the (Final Year's) Project Works / Internships (with company names and details) was intimated by HOD.
7. Mentor mentee list – discussion was done and the document updating status & deadline was informed to all the faculties.
8. "Youth for work (online site)" - faculties were asked to tell the students to register & take up the exams and it is open to all semester students.
9. The following value-added programs will be conducted during 2017 – 2018 EVEN semester

The following value-added programs will be conducted during 2017 – 2018 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	BT	Molecular biology & Cell culture techniques
2.	BT	Soft skill & Aptitude training

Resolutions:

- To achieve better results and aiming for many more VTU ranks.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the department
Dr. B.K. MANJUNATHA
Professor & Head
Department of Biotechnology
The Oxford College of Engineering
Bangaluru-560 068



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Departmental Committee Meeting – (CIVIL)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 –(ODD)

The department curriculum committee was made and the meeting was held on 28/07/2017 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. T S Malleshaiah	Professor
2	Mr Shivanand C G	Assot Professor
3	Mr. Amruth	Asst. Professor
4	Mr. Maheshkumar	Asst. Professor
5	Ms. Kavya	Asst. Professor
6	Ms. Harsha	Asst. Professor
7	Ms. Shradha	Asst. Professor
8.	Ms.Sowmya	Asst .Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. T S Malleshaiah welcomed all the faculty and explained VTU, ODD semester regulations.
- 2.As per the VTU regulation guidelines the students of all Odd semester should follow it.



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VTU has introduced Choice Based Credit System (CBCS).

Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	17CV742	Ground Water Hydraulics
2	17CV751	Urban transport planning

3.The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.

4.Department announced to conduct the regular seminars to the students.

5.Department plans for Field Visit / Industrial Visit.

6.Planning for the Final Year's Project Works / Internships.

7.Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2017 – 2018 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	CIVIL	Being Employable

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the Department
Department of Civil Engineering
The Oxford College of Engineering
Bangalore - 560 068.



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Departmental Committee Meeting – (CIVIL)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 –(EVEN)

The department curriculum committee was made and the meeting was held on 02/02/2018 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. T S Malleshaiah	Professor
2	Mr Shivanand C G	Assot Professor
3	Mr.Amruth	Asst. Professor
4	Mr. Maheshkumar	Asst. Professor
5	Ms. Kavya	Asst. Professor
6	Ms. Harsha	Asst. Professor
7	Ms. Shradha	Asst. Professor

Agenda:

Implementation of prescribed university syllabus approved by Principal for even semester.

- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1.HOD, Dr.T S Malleshaiah welcomed all the faculty and explained VTU, EVEN semester regulations.

2.Semester plan for 2017-18 even semester and mentioning the activities planned in the department.



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Sl. No.	CBCS ELECTIVE/MATDIP	
1	17CV833	Pavement Design

- 3.The discussion of the subjects of CBCS given in the above table, selected by the students.
- 4.Syllabus copy prescribed by the university circulated to the students and faculty.
- 5.Department announced to conduct the regular seminars to the students.
- 6.Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
- 7.Department plans for Field Visit / Industrial Visit.
- 8.Planning for the Final Year's Project Works / Internships.
- 9.Mentor mentee list – discussion
- 10.The following certificate programs will be conducted during 2017 – 2018 EVEN semester

Sl. No.	Name of the department	Name of the Certificate Program
1	CIVIL	Being Employable

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the Department
Department of Civil Engineering
The Oxford College of Engineering
Bangalore - 560 068.



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Departmental Committee Meeting – (Automobile engineering)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 –(ODD)

The department curriculum committee was made and the meeting was held on 02/08/2018 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. Raju B R	Professor
2	Dr. Suresh R	Professor
3	Mr. Ashok Kumar Thavd	Assot. Professor
4	Mr. Sandeep K Chavan	Asst. Professor
5	Mr. Hemantha C	Asst. Professor
6	Mr. Priyankar Dhole	Asst. Professor
7	Mr. Harish Kumar M	Asst. Professor
8	Mr. Maruthi S B	Asst. Professor
9	Mr. Deepak U. S	Asst. Professor
10	Mr. Raviteja R. N	Asst. Professor
11	Mr. Mahipal Reddy	Asst. Professor
12	Mr. Prasanna. S. M	Asst. Professor
13	Mr. Joshua. F	Asst. Professor
14	Mr.Sapthagiri Prasad N	Asst. Professor
15	Mr. Karthik. K	Asst. Professor

Agenda:



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- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

- 1.HOD, Dr.Raju B R welcomed all the faculty and explained VTU, ODD semester regulations.
- 2.As per the VTU regulation guidelines the students of all odd semester should follow it.
- 3.VTU has introduced Choice Based Credit System (CBCS) 2017-18 scheme.
- 4.Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	10AU752	Two & three wheeled vehicle
2	10AU761	Non-Destructing testing
3	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
4	17MATDIP31	Additional Mathematics –I

- 5.The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
- 6.Department announced to conduct the regular seminars to the students.
- 7.Department plans for Field Visit / Industrial Visit.
- 8.Planning for the Final Year's Project Works / Internships.



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9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2017 – 2018 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
9.	Automobile Engg.	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

Professor & Head
Department of Automobile Engineering
The Oxford College of Engineering
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Departmental Committee Meeting – (Automobile Engineering)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 –(EVEN)

The department curriculum committee was made and the meeting was held on 05/02/2018 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. Raju B R	Professor
2	Dr. Suresh R	Professor
3	Mr. Ashok Kumar Thavd	Assot. Professor
4	Mr. Sandeep K Chavan	Asst. Professor
5	Mr. Hemantha C	Asst. Professor
6	Mr. Priyankar Dhole	Asst. Professor
7	Mr. Harish Kumar M	Asst. Professor
8	Mr. Maruthi S B	Asst. Professor
9	Mr. Deepak U. S	Asst. Professor
10	Mr. Raviteja R. N	Asst. Professor
11	Mr. Mahipal Reddy	Asst. Professor
12	Mr. Prasanna. S. M	Asst. Professor
13	Mr. Joshua. F	Asst. Professor
14	Mr.Sapthagiri Prasad N	Asst. Professor
15	Mr. Karthik. K	Asst. Professor

Agenda:



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- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

- 1.HOD, Dr. Raju B R, welcomed all the faculty and explained VTU, EVEN semester regulations.
- 2.Semester plan for 2017-18 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	10AU834	Alternative energy source
2	10AU841	Hybrid vehicle
3	15AU663	Composite Materials
3	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
4	17MATDIP41	Additional Mathematics –II

- 3.The discussion of the subjects of CBCS given in the above table, selected by the students.
- 4.Syllabus copy prescribed by the university circulated to the students and faculty.
- 5.Department announced to conduct the regular seminars to the students.
- 6.Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
- 7.Department plans for Field Visit / Industrial Visit.
- 8.Planning for the Final Year's Project Works / Internships.



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9. Mentor mentee list – discussion

10. The following certificate programs will be conducted during 2017 – 2018 EVEN semester.

Sl. No.	Name of the department	Name of the Certificate Program
1	Automobile Engineering	ANSYS

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

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Departmental Committee Meeting – (MTE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 –(ODD)

The department curriculum committee was made and the meeting was held on 14/07/2017 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. NB Doddapattar	Professor & HOD
2	Dr. Shivappa	Professor & HOD
3	Mr. Rajesh	Asst. Professor
4	Mr. Rgavendra	Asst. Professor
5	Mr. Ravi s Jadhav	Asst. Professor
6	Ms. Rekha	Asst. Professor
7	Ms. Premela	Asst. Professor
8	Mr. Rani Aishwaraya	Asst. Professor
9	Ms. Vijaykumar kurubha	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. NB Doddapattar welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.



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6. Department plans for Field Visit / Industrial Visit.
7. Planning for the Final Year's Project Works / Internships.
8. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2017 – 2018 odd semester

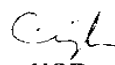
Sl. No.	Name of the department	Name of the Certificate Program
1	MTE	MATLAB
2		LEGO
3		ROBOTICS

The following value-added programs will be conducted during 2017 – 2018 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
	MTE	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


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Prof. & HOD
Department of Mechatronics
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Departmental Committee Meeting – (MTE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 –(EVEN)

The department curriculum committee was made and the meeting was held on 01/02/2018 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. NB Doddapattar	Professor & HOD
2	Dr. Shivappa	Professor & HOD
3	Mr. Rajesh	Asst. Professor
4	Mr. Rgavendra	Asst. Professor
5	Mr. Ravi s Jadhav	Asst. Professor
6	Ms. Rekha	Asst. Professor
7	Ms. Premela	Asst. Professor
8	Mr. Rani Aishwaraya	Asst. Professor
9	Ms. Vijaykumar kurubha	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.



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Minutes of Meeting:

1. HOD, Dr. NB Doddapattar, welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2017-18 even semester and mentioning the activities planned in the department.
3. Syllabus copy prescribed by the university circulated to the students and faculty.
4. Department announced to conduct the regular seminars to the students.
5. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
6. Department plans for Field Visit / Industrial Visit.
7. Planning for the Final Year's Project Works / Internships.
8. Mentor mentee list – discussion
9. The following certificate programs will be conducted during 2017 – 2018 EVEN semester

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


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Department of Mechatronics
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MBA-DEPARTMENTAL CURRICULUM COMMITTEE MEETING

2017-2018 – (EVEN)

The department curriculum committee was made and the meeting was held on 01/02/2018 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr James Thomas	HOD
2.	Dr.PGiridhar Reddy	Associate Professor
3.	Dr BalaKoteswari	Associate Professor
4.	Ms. Umasharma	Assistant Professor
5.	Ms. Richa Tiwari	Assistant Professor
6.	Ms. Savitha	Assistant Professor
7.	Ms. Sahana	Assistant Professor
8.	Mr.Gokul	Assistant Professor
9.	Mr.Chikkegowda	Assistant Professor
10.	Ms.Chandrika	Assistant Professor
11.	Ms. Paronita	Assistant Professor

Agenda:

1. Welcome and Syllabus discussion .
2. Seminars.



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3. Plan of Field and Industrial visit.


4. Project or internship.

Summary: Minutes

1. HOD, Dr. James Thomas welcomed all the faculty and explained VTU, ODD semester regulations.
2. Semester plan for 2017-18 even semester and mentioning the activities planned in the department.
3. Syllabus copy prescribed by the university circulated to the students and faculty.
4. Department announced to conduct the regular seminars to the students.
5. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
6. Department plans for Field Visit / Industrial Visit.
7. Planning for the (Final Year's) Project Works / Internships (with company names and details).
8. Mentor mentee list – discussion

Resolutions:

1. Semester mentoring activities plan has to submit in the specialization on the before 10th Feb
2. Seminar has to be conducted on one each subject.
3. One industrial visit on before 25th Feb for the process study.
4. Project work topic allocation and discussion has be done within 15th Feb


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MBA- DEPARTMENTAL CURRICULUM COMMITTEE MEETING

2017-2018 –(ODD)

The department curriculum committee was made and the meeting was held on 27/07/2017 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr James Thomas	HOD
2.	Dr.PGiridhar Reddy	Associate Professor
3.	Dr BalaKoteswari	Associate Professor
4.	Ms. Umasharma	Assistant Professor
5.	Ms. Richa Tiwari	Assistant Professor
6.	Ms. Savitha	Assistant Professor
7.	Ms. Sahana	Assistant Professor
8.	Mr.Gokul	Assistant Professor
9.	Mr.Chikkegowda	Assistant Professor
10.	Ms.Chandrika	Assistant Professor
11.	Ms. Paronita	Assistant Professor

Agenda:

1. Faculty welcome and Guidelines



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2. Syllabus discussion
3. Industrial Visit
4. Project work

Summary: Minutes

1. HOD, Dr. James Thomas welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. Syllabus copy prescribed by the university circulated to the students and faculty.
4. Department announced to conduct the regular seminars to the students.
5. Department plans for Field Visit/ Industrial Visit.
6. Planning for the (Final Year's) Project Works / Internships (with company names and details).
7. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

Resolutions:

1. Discussed and planned for regulations of the semester.
2. Syllabus copy has to be circulated on before 30th July.
3. Seminars schedule and plan to be ready before 2nd August.
4. Mentors and student meeting and evaluation to be done within 5th August.

HOD

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The Oxford College of Engineering
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Departmental Committee Meeting – (MCA)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 –(ODD)

The department curriculum committee was made and the meeting was held on 26/07/2017 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. M S Shashidhara	Professor
2	Dr. Praveen Kumar P U	Professor
3	Mr.Ashok B P	Assot. Professor
4	Mr. Dharamvir	Assot. Professor
5	Mr. JC Achutha	Assot. Professor
6	Mrs. Saritha S	Assot. Professor
7	Mrs. Mridula Shukla	Assot. Professor
8	Mrs. Selvi E	Assot. Professor
9	Ms. R Ushasree	Asst. Professor
10	Mr. Changappa M R	Asst. Professor
11	Mr. Indrakumar S S	Asst. Professor
12	Mrs. Stuti Agarwal	Asst. Professor
13	Ms. Kimmi Kumari	Asst. Professor
14	Ms. Anjana S Murthy	Asst. Professor
15	Ms. Punya V	Asst. Professor
16	Ms. Sudha K	Asst. Professor
17	Ms. Lavanya B K	Asst. Professor
18	Mr. Chandran M	Asst. Professor
19	Mrs.Selastina Mary A	Asst. Professor
20	Mrs.Moumita Kali	Asst. Professor



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Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. M S Shashidhara welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	16MCA352	Enterprise Resource Planning(ERP)
2	16MCA354	Cyber Security

5. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.



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6. Department announced to conduct the regular seminars to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2017 – 2018 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
10.	MCA	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Signature of the HOD
Dr. M.S. Shashidhara
Dept. of MCA

HOD-MCA



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Departmental Committee Meeting – (MCA)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 –(EVEN)

The department curriculum committee was made and the meeting was held on 19/02/2018 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. M S Shashidhara	Professor
2	Dr. Praveen Kumar P U	Professor
3	Mr.Ashok B P	Assot. Professor
4	Mr. Dharamvir	Assot. Professor
5	Mr. JC Achutha	Assot. Professor
6	Mrs. Saritha S	Assot. Professor
7	Mrs. Mridula Shukla	Assot. Professor
8	Mrs. Selvi E	Assot. Professor
9	Ms. R Ushasree	Asst. Professor
10	Mr. Changappa M R	Asst. Professor
11	Mr. Indrakumar S S	Asst. Professor
12	Mrs. Stuti Agarwal	Asst. Professor
13	Ms. Kimmi Kumari	Asst. Professor
14	Ms. Anjana S Murthy	Asst. Professor
15	Ms. Punya V	Asst. Professor
16	Ms. Sudha K	Asst. Professor
17	Ms. Lavanya B K	Asst. Professor
18	Mr. Chandran M	Asst. Professor
19	Mrs.Selastina Mary A	Asst. Professor
20	Mrs.Moumita Kali	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar



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- Implementation of certificate/value added courses.
- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. M S Shashidhara, welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2017-18 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	16MCA443	Software Architecture
2	16MCA452	Big Data Analytics

3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Mentor mentee list – discussion
10. The following certificate programs will be conducted during 2017 – 2018 EVEN semester

Sl. No.	Name of the department	Name of the Certificate Program
1	MCA	IOT

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Signature of the HOD
Dr. M.S. Shashidhara
Dept. of MCA



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List and Description of courses (1) Subject, (2) Subject Code, (3) Curriculum Objective, (4) Delivery Methodology with Number of hours, (5) PO, PSO, CO Mapping, (6) Crosscutting Issues Integrated which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

2017-18

Dept. of Computer Science & Engineering

Environmental Studies - 17CIV18

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examination 2017-2018											
Choice Based Credit System (CBCS)											
I SEMESTER B.E/B.Tech (CHEMISTRY GROUP)											
Sl. No	Course Code	Course Title	Teaching Department	Board	Teaching Hours/Week		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT11	Engineering Maths-I	Mathematics	Basic Science	04	--	03	60	40	100	4
2	17CHE12	Engineering Chemistry	Chemistry	Basic Science	04	--	03	60	40	100	4



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3	17PCD13	Programming in C and Data Structures	Any Engineering Department	Computer Science Engineering	04	--	03	60	40	100	4
4	17CED14	Computer Aided Engineering Drawing	ME,IP,Auto, IEM, Mfg. Engineering	Mechanical Engineering	02 Hour Instruction 04 Hour Practice		03	60	40	100	4
5	17ELN15	Basic Electronics	ECE/EEE/TC /E and I	E and C Engineering	04	--	03	60	40	100	4
6	17CPL16	Computer Programming Laboratory	Any Engineering Department	Computer Science Engineering	01 Hour Tutorial 02 Hour Practical		03	60	40	100	2
7	17CHEL17	Engineering Chemistry Laboratory	Chemistry	Basic Science	01 Hour Tutorial 02 Hour Practical		03	60	40	100	2
8	17CIV18	Environmental Studies (Audit Course)	Civil / Environmental Engineering	Civil Engineering	01 Hour Tutorial		--	30	20	50	--
TOTAL					Theory:21 hours Practical: 08 hours		21	450	300	750	24

ENVIRONMENTAL STUDIES

Laboratory Code	17CIV18/17CIV28	IA Marks	20
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Number of Lecture Hours/Week	02	Exam Marks	30
Total Number of Lecture Hours	25	Exam Marks	02

Course Objectives:

- To identify the major challenges in environmental issues and evaluate possible solutions.
- Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
- To analyze an overall impact of specific issues and develop environmental management plan.

Module -1 (05 – Hours)

Introduction Environment – Components of Environment Ecosystem: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & Social Security. Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation Environmental Impact Assessment, Sustainable Development

Module -2 (05 – Hours)

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. Energy – Different types of energy, Conventional sources & Non Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy.

Module -3 (05 – Hours)

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management.

Module -4 (05 – Hours)

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. Solid Waste Management, E – Waste Management & Biomedical Waste Management – Sources, Characteristics & Disposal methods.

Module -5 (05 – Hours)

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. Environmental Acts & Regulations, Role of government, Legal aspects, Role of Nongovernmental Organizations (NGOs) , Environmental Education & Women Education.

Course Outcome:

Students will be able to,

- Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
- Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,
- Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components
- Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:



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- R Rajagopalan, “Environmental Studies – From Crisis to Cure”, Oxford University Press, 2005,
- Aloka Debi, “Environmental Science and Engineering”, Universities Press (India) Pvt. Ltd. 2012.

Reference Books:

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- S.M. Prakash, “Environmental Studies”, Elite Publishers Mangalore, 2007
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- G.Tyler Miller Jr., “Environmental Science – working with the Earth”, Eleventh Edition, Thomson Brooks /Cole, 2006
- Dr.Pratiba Sing, Dr.AnoopSingh and Dr.Piyush Malaviya, “Text Book of Environmental and Ecology”, Acme Learning Pvt. Ltd. New Delhi.

Constitution of India, Professional Ethics and Human Rights - 17CPH39/49

Sl. No	Course Code	Title	Teaching Department	Teaching Hours/Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT31	Engineering Mathematics - III	Maths	04	--	03	60	40	100	4
2	17CS32	Analog and Digital Electronics	CS/IS	04	--	03	60	40	100	4
3	17CS33	Data Structures and Applications	CS/IS	04	--	03	60	40	100	4
4	17CS34	Computer Organization	CS/IS	04	--	03	60	40	100	4



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5	17CS35	Unix and Shell Programming	CS/IS	03	--	03	60	40	100	3
6	17CS36	Discrete Mathematical Structures	CS/IS	04		03	60	40	100	4
7	17CSL37	Analog and Digital Electronics Laboratory	CS/IS	01 Hour Tutorial 02 Hour Practical		03	60	40	100	2
8	17CSL38	Data Structures Laboratory	CS/IS	01 Hour Tutorial 02 Hour Practical		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	1
TOTAL				Theory: 24 hours Practical: 06 hours		25	510	340	850	28



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Constitution of India, Professional Ethics and Human Rights - 2017 scheme
VTU CBCS 17CPH39

Module-1 Introduction and Basic Information about Indian Constitution 3 hours

Introduction and Basic Information about Indian Constitution

- The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, the making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) & it's present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-2 Union Executive and State Executive 3 hours

Union Executive and State Executive

- Parliamentary System, Federal System, Centre-State Relations.
- Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Article 370,371,371J) for some States. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-3 Elections, Amendments and Emergency Provisions 3 hours

Elections, Amendments and Emergency Provisions

- Elections, Electoral Process, and Election Commission of India, Election Laws.
- Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Recent Amendments with explanation. Important Judgements with Explanation and its impact on society (from the list of Supreme Court Judgements). Emergency Provisions, types of Emergencies and it's consequences. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-4 Constitutional Provisions/ Local Administration/ Human Rights 3 hours

Constitutional Provisions/ Local Administration/ Human Rights

- Special Constitutional Provisions for SC & ST, OBC, Special Provision for Women, Children & Backward Classes. Local Administration: Powers and functions of Municipalities and Panchayats System. Co – Operative Societies and Constitutional and Non-constitutional Bodies. Human Rights/values – Meaning and Definitions, Legislative Specific Themes in Human Rights and Functions/ Roles of National Human Rights Commission of India. Human Rights (Amendment Act)2006.

Module-5 Professional / Engineering Ethics 3 hours

Professional / Engineering Ethics

- Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering



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Ethics, Code of Ethics as defined in the website of Institution of Engineers (India) : Profession, Professionalism, Professional Responsibility. Clash of Ethics, Conflicts of Interest.

Responsibilities in Engineering

- Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights),
- Risks, Safety and liability in Engineering. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Course Outcomes:

On completion of this course, students will be able to,

1. Have general knowledge and legal literacy about Indian Constitution and there by it helps to take up competitive examinations & to manage/face complex societal issues in society.
2. Understand state and central policies(Union and State Executive), fundamental Rights & their duties.
3. Understand Electoral Process, Amendments and special provisions in Constitution.
4. Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, with Human Rights and NHRC.
5. Understand Engineering & Professional ethics and responsibilities of Engineers.

Question paper pattern for SEE and CIE.

- The SEE question paper will be set for 30 marks and the pattern of the question paper will be objective type (MCQ).
- For the award of 20 CIE marks, refer the University Scheme and Syllabus book.

Text Books:

1. Durga Das Basu (DD Basu): Introduction to the Constitution on India, (Students Edition.) Prentice -Hall EEE, 19th / 20th Edn., (Latest Edition) or 2008.
2. Shubham Singles, Charles E. Haries, and Et al: Constitution of India and Professional Ethics by Cengage Learning India Private Limited, Latest Edition – 2018.

Reference Books:

1. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, Engineering Ethics, Prentice -Hall of India Pvt. Ltd. New Delhi, 2004
2. M.V.Pylee, An Introduction to Constitution of India, Vikas Publishing, 2002.
3. Latest Publications of NHRC – Indian Institute of Human Rights, New Delhi.



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B.E Information Science & Engineering

Sl. No.	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical / Drawing	Duration in hours	SE E Marks	CIE Marks	Total Marks	
1	17MAT31	Engineering Mathematics - III	Maths	04		03	60	40	100	4
2	17CS32	Analog and Digital Electronics	CS/IS	04		03	60	40	100	4
3	17CS33	Data Structures and Applications	CS/IS	04		03	60	40	100	4
4	17CS34	Computer Organization	CS/IS	04		03	60	40	100	4
5	17CS35	Unix and Shell Programming	CS/IS	03		03	60	40	100	3
6	17CS36	Discrete Mathematical Structures	CS/IS	04		03	60	40	100	4
7	17CSL37	Analog and Digital Electronics Laboratory	CS/IS	01- Hour Instruction 02- Hour Practical		03	60	40	100	
8	17CSL38	Data Structures Laboratory	CS/IS	01-Hour Instruction 02-Hour Practical		03	60	40	100	
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
TOTAL				Theory:		25	50	340	850	28
				Practical: 06 hours						



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Constitution of India, Professional Ethics and Human Rights - 2017 scheme
VTU CBCS 17CPH39

Module-1 Introduction and Basic Information about Indian Constitution 3 hours

Introduction and Basic Information about Indian Constitution

- The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, the making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) & it's present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-2 Union Executive and State Executive 3 hours

Union Executive and State Executive

- Parliamentary System, Federal System, Centre-State Relations.
- Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Article 370,371,371J) for some States. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-3 Elections, Amendments and Emergency Provisions 3 hours

Elections, Amendments and Emergency Provisions

- Elections, Electoral Process, and Election Commission of India, Election Laws.
- Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Recent Amendments with explanation. Important Judgements with Explanation and its impact on society (from the list of Supreme Court Judgements). Emergency Provisions, types of Emergencies and it's consequences. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-4 Constitutional Provisions/ Local Administration/ Human Rights 3 hours

Constitutional Provisions/ Local Administration/ Human Rights

- Special Constitutional Provisions for SC & ST, OBC, Special Provision for Women, Children & Backward Classes. Local Administration: Powers and functions of Municipalities and Panchayats System. Co – Operative Societies and Constitutional and Non-constitutional Bodies. Human Rights/values – Meaning and Definitions, Legislative Specific Themes in Human Rights and Functions/ Roles of National Human Rights Commission of India. Human Rights (Amendment Act)2006.

Module-5 Professional / Engineering Ethics 3 hours

Professional / Engineering Ethics

- Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering



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- Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights),
- Risks, Safety and liability in Engineering. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Course Outcomes:

On completion of this course, students will be able to,

6. Have general knowledge and legal literacy about Indian Constitution and there by it helps to take up competitive examinations & to manage/face complex societal issues in society.
7. Understand state and central policies(Union and State Executive), fundamental Rights & their duties.
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9. Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, with Human Rights and NHRC.
10. Understand Engineering & Professional ethics and responsibilities of Engineers.

Question paper pattern for SEE and CIE.

- The SEE question paper will be set for 30 marks and the pattern of the question paper will be objective type (MCQ).
- For the award of 20 CIE marks, refer the University Scheme and Syllabus book.

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4. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, Engineering Ethics, Prentice -Hall of India Pvt. Ltd. New Delhi, 2004
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ENVIRONMENTAL STUDIES

Laboratory Code	17CIV18/17CIV28	IA Marks	20
Number of Lecture Hours/Week	02	Exam Marks	30
Total Number of Lecture Hours	25	Exam Marks	02

Course Objectives:

- To identify the major challenges in environmental issues and evaluate possible solutions.
- Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
- To analyze an overall impact of specific issues and develop environmental management plan.

Module -1 (05 – Hours)

Introduction Environment – Components of Environment Ecosystem: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & Social Security. Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation Environmental Impact Assessment, Sustainable Development

Module -2 (05 – Hours)

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. Energy – Different types of energy, Conventional sources & Non Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy.

Module -3 (05 – Hours)

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management.

Module -4 (05 – Hours)

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. Solid Waste Management, E– Waste Management & Biomedical Waste Management – Sources, Characteristics & Disposal methods.

Module -5 (05 – Hours)

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. Environmental Acts & Regulations, Role of government, Legal aspects, Role of Nongovernmental Organizations (NGOs) , Environmental Education & Women Education.

Course Outcome:

Students will be able to,

- Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
- Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,



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- Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components
- Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:

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B.E Electronics & Communication Engineering

ENVIRONMENTAL STUDIES

Laboratory Code	17CIV18/17CIV28	IA Marks	20
Number of Lecture Hours/Week	02	Exam Marks	30
Total Number of Lecture Hours	25	Exam Marks	02

Course Objectives:

- To identify the major challenges in environmental issues and evaluate possible solutions.
- Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
- To analyze an overall impact of specific issues and develop environmental management plan.

Module -1 (05 – Hours)

Introduction Environment – Components of Environment Ecosystem: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & Social Security. Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation Environmental Impact Assessment, Sustainable Development

Module -2 (05 – Hours)

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. Energy – Different types of energy, Conventional sources & Non Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy.

Module -3 (05 – Hours)

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management.

Module -4 (05 – Hours)

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. Solid Waste Management, E – Waste Management & Biomedical Waste Management – Sources, Characteristics & Disposal methods.

Module -5 (05 – Hours)

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. Environmental Acts & Regulations, Role of government, Legal aspects, Role of Nongovernmental Organizations (NGOs) , Environmental Education & Women Education.

Course Outcome:

Students will be able to,



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E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

- Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
- Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,
- Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components
- Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:

- Benny Joseph (2005), "Environmental Studies", Tata McGraw – Hill Publishing Company Limited.
- R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
- R Rajagopalan, "Environmental Studies – From Crisis to Cure", Oxford University Press, 2005,
- Aloka Debi, "Environmental Science and Engineering", Universities Press (India) Pvt. Ltd. 2012.

Reference Books:

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- P. Meenakshi, "Elements of Environmental Science and Engineering", Prentice Hall of India Private Limited, New Delhi, 2006
- S.M. Prakash, "Environmental Studies", Elite Publishers Mangalore, 2007
- Erach Bharucha, "Text Book of Environmental Studies", for UGC, University press, 2005
- G.Tyler Miller Jr., "Environmental Science – working with the Earth", Tenth Edition, Thomson Brooks /Cole, 2004
- G.Tyler Miller Jr., "Environmental Science – working with the Earth", Eleventh Edition, Thomson Brooks /Cole, 2006
- Dr.Pratiba Sing, Dr.AnoopSingh and Dr.Piyush Malaviya, "Text Book of Environmental and Ecology", Acme Learning Pvt. Ltd. New Delhi.



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CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND HUMAN RIGHTS - 2017 SCHEME
VTU CBCS 17CPH39

Module-1 Introduction and Basic Information about Indian Constitution 3 hours

Introduction and Basic Information about Indian Constitution

- The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, the making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) & it's present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-2 Union Executive and State Executive 3 hours

Union Executive and State Executive

- Parliamentary System, Federal System, Centre-State Relations.
- Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Article 370,371,371J) for some States. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-3 Elections, Amendments and Emergency Provisions 3 hours

Elections, Amendments and Emergency Provisions

- Elections, Electoral Process, and Election Commission of India, Election Laws.
- Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, 75, 86, and 91,94,95,100,101,118 and some important Case Studies. Recent Amendments with explanation. Important Judgements with Explanation and its impact on society (from the list of Supreme Court Judgements). Emergency Provisions, types of Emergencies and it's consequences. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-4 Constitutional Provisions/ Local Administration/ Human Rights 3 hours

Constitutional Provisions/ Local Administration/ Human Rights

- Special Constitutional Provisions for SC & ST, OBC, Special Provision for Women, Children & Backward Classes. Local Administration: Powers and functions of Municipalities and Panchayats System. Co – Operative Societies and Constitutional and Non-constitutional Bodies. Human Rights/values – Meaning and Definitions, Legislative Specific Themes in Human Rights and Functions/ Roles of National Human Rights Commission of India. Human Rights (Amendment Act)2006.

Module-5 Professional / Engineering Ethics 3 hours

Professional / Engineering Ethics

- Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering



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Ethics, Code of Ethics as defined in the website of Institution of Engineers (India) : Profession, Professionalism, Professional Responsibility. Clash of Ethics, Conflicts of Interest.

Responsibilities in Engineering

- Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights),
- Risks, Safety and liability in Engineering. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Course Outcomes:

On completion of this course, students will be able to,

11. Have general knowledge and legal literacy about Indian Constitution and there by it helps to take up competitive examinations & to manage/face complex societal issues in society.
12. Understand state and central policies(Union and State Executive), fundamental Rights & their duties.
13. Understand Electoral Process, Amendments and special provisions in Constitution.
14. Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, with Human Rights and NHRC.
15. Understand Engineering & Professional ethics and responsibilities of Engineers.

Question paper pattern for SEE and CIE.

- The SEE question paper will be set for 30 marks and the pattern of the question paper will be objective type (MCQ).
- For the award of 20 CIE marks, refer the University Scheme and Syllabus book.

Text Books:

5. Durga Das Basu (DD Basu): Introduction to the Constitution on India, (Students Edition.) Prentice -Hall EEE, 19th / 20th Edn., (Latest Edition) or 2008.
6. Shubham Singles, Charles E. Haries, and Et al: Constitution of India and Professional Ethics by Cengage Learning India Private Limited, Latest Edition – 2018.

Reference Books:

7. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, Engineering Ethics, Prentice -Hall of India Pvt. Ltd. New Delhi, 2004
8. M.V.Pylee, An Introduction to Constitution of India, Vikas Publishing, 2002.
9. Latest Publications of NHRC – Indian Institute of Human Rights, New Delhi.



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B.E Electrical & Electronics Engineering

Course Structure for B.E- 2017 scheme Regulation

Electrical and Electronics Engineering

Visvesvaraya Technological University, Belagavi

**REGULATIONS GOVERNING
THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech)
UNDER CHOICE BASED CREDIT SYSTEM (CBCS)
Effective from the academic year 2017-18**

Annexure -1

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examination 2017-2018 Choice Based Credit System (CBCS)											
I SEMESTER B.E./B.Tech. (PHYSICS GROUP)											
Sl. No	Course Code	Course Title	Teaching Department	Board	Teaching Hours/Week		Examination			Credits	
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks		Total Marks
1	17MAT11	Engineering Mathematics -I	Mathematics	Basic Science	04	--	03	60	40	100	4
2	17PHY12	Engineering Physics	Physics	Basic Science	04	--	03	60	40	100	4
3	17CIV13	Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	04	--	03	60	40	100	4
4	17EME14	Elements of Mechanical Engineering	Mechanical Engineering	Mechanical Engineering	04	--	03	60	40	100	4
5	17ELE17	Basic Electrical Engineering	E and E Engineering	E and E Engineering	04	--	03	60	40	100	4
6	17WSL16	Workshop Practice	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	01Hour Instruction 02Hour Practical		03	60	40	100	2
7	17PHYL17	Engineering Physics Laboratory	Physics	Basic Science	01Hour Instruction 02Hour Practical		03	60	40	100	2
8	17ENG18	Language - English (Audit Course)	Humanities	--	01	--	--	--	--	--	--
TOTAL					Theory: 21 hours Practical: 06 hours		21	420	280	700	24
II SEMESTER B.E./B.Tech. (CHEMISTRY GROUP)											
1	17MAT21	Engineering Mathematics -II	Mathematics	Basic Science	04	--	03	60	40	100	4
2	17CHE22	Engineering Chemistry	Chemistry	Basic Science	04	--	03	60	40	100	4
3	17PCD23	Programming in C and Data Structures	Any Engineering Department	Computer Science and Engineering	04	--	03	60	40	100	4
4	17CED24	Computer Aided Engineering Drawing	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	02Hour Instruction 04-Hour Practice		03	60	40	100	4
5	17ELN25	Basic Electronics	ECB/EEE/TCE and I	E and C Engineering	04	--	03	60	40	100	4
6	17CPL26	Computer Programming Laboratory	Any Engineering Department	Computer Science and Engineering	01Hour Tutorial 02Hour Practical		03	60	40	100	2
7	17CHEL27	Engineering Chemistry Laboratory	Chemistry	Basic Science	01Hour Tutorial 02Hour Practical		03	60	40	100	2
8	17CIV28	Environmental Studies (Audit Course)	Civil/ Environmental Engineering	Civil Engineering	01Tutorial	--	--	30	20	50	--
TOTAL					Theory: 21 hours						



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ENVIRONMENTAL STUDIES

Laboratory Code	17CIV18/17CIV28	IA Marks	20
Number of Lecture Hours/Week	02	Exam Marks	30
Total Number of Lecture Hours	25	Exam Marks	02

Course Objectives:

- To identify the major challenges in environmental issues and evaluate possible solutions.
- Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
- To analyze an overall impact of specific issues and develop environmental management plan.

Module -1 (05 – Hours)

Introduction Environment – Components of Environment Ecosystem: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & Social Security. Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation Environmental Impact Assessment, Sustainable Development

Module -2 (05 – Hours)

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. Energy – Different types of energy, Conventional sources & Non Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy.

Module -3 (05 – Hours)

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management.

Module -4 (05 – Hours)

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. Solid Waste Management, E – Waste Management & Biomedical Waste Management – Sources, Characteristics & Disposal methods.

Module -5 (05 – Hours)

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. Environmental Acts & Regulations, Role of government, Legal aspects, Role of Nongovernmental Organizations (NGOs) , Environmental Education & Women Education.

Course Outcome:

Students will be able to,

- Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
- Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,
- Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components



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- Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:

- Benny Joseph (2005), "Environmental Studies", Tata McGraw – Hill Publishing Company Limited.
- R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
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- G.Tyler Miller Jr., "Environmental Science – working with the Earth", Eleventh Edition, Thomson Brooks /Cole, 2006
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2017-2018

Choice Based Credit System (CBCS)

**B.E: ELECTRICAL AND ELECTRONICS ENGINEERING
CHOICE BASED CREDIT SYSTEM (CBCS)**

IV SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT41	Engineering Mathematics-IV (Core)	Mathematics	04		03	60	40	100	4
2	17EE42	Power Generation and Economics (Core)	EEE	04		03	60	40	100	4
3	17EE43	Transmission and Distribution (Core)	EEE	04		03	60	40	100	4
4	17EE44	Electric Motors (Core)	EEE	04		03	60	40	100	4
5	17EE45	Electromagnetic Field Theory (Core)	EEE	04		03	60	40	100	4
6	17EE46	Operational Amplifiers and Linear ICs (Foundation course)	EEE	03		03	60	40	100	3
7	17EEL47	Electrical Machines Laboratory -2	EEE	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17EEL48	Op- amp and Linear ICs Laboratory	EEE	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
TOTAL				Theory: 24hours Practical: 06 hours		25	510	340	850	28

I. Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

**CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND HUMAN RIGHTS - 2017 SCHEME
VTU CBCS 17CPH39**

Module-1 Introduction and Basic Information about Indian Constitution 3 hours

Introduction and Basic Information about Indian Constitution

- The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, the making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) & it's present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-2 Union Executive and State Executive 3 hours

Union Executive and State Executive

- Parliamentary System, Federal System, Centre-State Relations.
- Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State



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Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Article 370,371,371J) for some States. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-3 Elections, Amendments and Emergency Provisions 3 hours

Elections, Amendments and Emergency Provisions

- Elections, Electoral Process, and Election Commission of India, Election Laws.
- Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Recent Amendments with explanation. Important Judgements with **Explanation and its impact on society** (from the list of Supreme Court Judgements). Emergency Provisions, types of Emergencies and it's consequences. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-4 Constitutional Provisions/ Local Administration/ Human Rights 3 hours

Constitutional Provisions/ Local Administration/ Human Rights

- **Special Constitutional Provisions for SC & ST, OBC, Special Provision for Women, Children & Backward Classes.** Local Administration: Powers and functions of Municipalities and Panchayats System. Co – Operative Societies and Constitutional and Non-constitutional Bodies. **Human Rights/values – Meaning and Definitions, Legislative Specific Themes in Human Rights and Functions/ Roles of National Human Rights Commission of India.** Human Rights (Amendment Act)2006.

Module-5 Professional / Engineering Ethics 3 hours

Professional / Engineering Ethics

- **Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism,** Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India) : Profession, Professionalism, Professional Responsibility. Clash of Ethics, Conflicts of Interest.

Responsibilities in Engineering

- Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights),
- Risks, Safety and liability in Engineering. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Course Outcomes:

On completion of this course, students will be able to,

16. Have general knowledge and legal literacy about Indian Constitution and there by it helps to take up competitive examinations & to manage/face complex societal issues in society.
17. Understand state and central policies(Union and State Excutive), fundamental Rights & their duties.
18. Understand Electoral Process, Amendments and special provisions in Constitution.
19. Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, with Human Rights and NHRC.
20. Understand Engineering & Professional ethics and responsibilities of Engineers.

Question paper pattern for SEE and CIE.

- The SEE question paper will be set for 30 marks and the pattern of the question paper will be objective type (MCQ).
- For the award of 20 CIE marks, refer the University Scheme and Syllabus book.



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Text Books:

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8. Shubham Singles, Charles E. Haries, and Et al: Constitution of India and Professional Ethics by Cengage Learning India Private Limited, Latest Edition – 2018.

Reference Books:

10. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, Engineering Ethics, Prentice -Hall of India Pvt. Ltd. New Delhi, 2004
11. M.V.Pylee, An Introduction to Constitution of India, Vikas Publishing, 2002.
12. Latest Publications of NHRC – Indian Institute of Human Rights, New Delhi.



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B.E Mechanical Engineering

Visvesvaraya Technological University, Belagavi

REGULATIONS GOVERNING
THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech)
UNDER CHOICE BASED CREDIT SYSTEM (CBCS)
Effective from the academic year 2017-18

Annexure -I

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examination 2017-2018											
Choice Based Credit System (CBCS)											
I SEMESTER B.E./B.Tech. (PHYSICS GROUP)											
Sl. No	Course Code	Course Title	Teaching Department	Board	Teaching Hours / W eek		Examination			Credits	
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks		Total Marks
1	17MAT11	Engineering Mathematics -I	Mathematics	Basic Science	04	--	03	60	40	100	4
2	17PHY12	Engineering Physics	Physics	Basic Science	04	--	03	60	40	100	4
3	17CIV13	Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	04	--	03	60	40	100	4
4	17EME14	Elements of Mechanical Engineering	Mechanical Engineering	Mechanical Engineering	04	--	03	60	40	100	4
5	17ELE17	Basic Electrical Engineering	E and E Engineering	E and E Engineering	04	--	03	60	40	100	4
6	17WSL16	Workshop Practice	ME, Auto, IP, IEM, Mig Engineering	Mechanical Engineering	01Hour Instruction 02Hour Practical		03	60	40	100	2
7	17PHYL17	Engineering Physics Laboratory	Physics	Basic Science	01Hour Instruction 02Hour Practical		03	60	40	100	2
8	17ENG18	Language - English (Audit Course)	Humanities	--	01	--	--	--	--	--	--
TOTAL					Theory: 21 hours Practical: 06 hours		21	420	280	700	24
II SEMESTER B.E./B.Tech. (CHEMISTRY GROUP)											
1	17MAT21	Engineering Mathematics -II	Mathematics	Basic Science	04	--	03	60	40	100	4
2	17CHE22	Engineering Chemistry	Chemistry	Basic Science	04	--	03	60	40	100	4
3	17PCD23	Programming in C and Data Structures	Any Engineering Department	Computer Science and Engineering	04	--	03	60	40	100	4
4	17CED24	Computer Aided Engineering Drawing	ME, Auto, IP, IEM, Mig Engineering	Mechanical Engineering	02Hour Instruction 04-Hour Practice		03	60	40	100	4
5	17ELN25	Basic Electronics	ECB/EEE/TC/E and I	E and C Engineering	04	--	03	60	40	100	4
6	17CPL26	Computer Programming Laboratory	Any Engineering Department	Computer Science and Engineering	01Hour Tutorial 02Hour Practical		03	60	40	100	2
7	17CHEL27	Engineering Chemistry Laboratory	Chemistry	Basic Science	01Hour Tutorial 02Hour Practical		03	60	40	100	2
8	17CIV28	Environmental Studies (Audit Course)	Civil/ Environmental Engineering	Civil Engineering	01Tutorial		--	30	20	50	--
TOTAL					Theory: 21 hours						



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ENVIRONMENTAL STUDIES

Laboratory Code	17CIV18/17CIV28	IA Marks	20
Number of Lecture Hours/Week	02	Exam Marks	30
Total Number of Lecture Hours	25	Exam Marks	02

Course Objectives:

- To identify the major challenges in environmental issues and evaluate possible solutions.
- Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
- To analyze an overall impact of specific issues and develop environmental management plan.

Module -1 (05 – Hours)

Introduction Environment – Components of Environment Ecosystem: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & Social Security. Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation Environmental Impact Assessment, Sustainable Development

Module -2 (05 – Hours)

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. Energy – Different types of energy, Conventional sources & Non Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy.

Module -3 (05 – Hours)

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management.

Module -4 (05 – Hours)

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. Solid Waste Management, E – Waste Management & Biomedical Waste Management – Sources, Characteristics & Disposal methods.

Module -5 (05 – Hours)

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. Environmental Acts & Regulations, Role of government, Legal aspects, Role of Nongovernmental Organizations (NGOs) , Environmental Education & Women Education.

Course Outcome:

Students will be able to,

- Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
- Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,



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- Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components
- Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:

- Benny Joseph (2005), "Environmental Studies", Tata McGraw – Hill Publishing Company Limited.
- R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
- R Rajagopalan, "Environmental Studies – From Crisis to Cure", Oxford University Press, 2005,
- Aloka Debi, "Environmental Science and Engineering", Universities Press (India) Pvt. Ltd. 2012.

Reference Books:

- Raman Sivakumar, "Principals of Environmental Science and Engineering", Second Edition, Cengage learning Singapore, 2005
- P. Meenakshi, "Elements of Environmental Science and Engineering", Prentice Hall of India Private Limited, New Delhi, 2006
- S.M. Prakash, "Environmental Studies", Elite Publishers Mangalore, 2007
- Erach Bharucha, "Text Book of Environmental Studies", for UGC, University press, 2005
- G.Tyler Miller Jr., "Environmental Science – working with the Earth", Tenth Edition, Thomson Brooks /Cole, 2004
- G.Tyler Miller Jr., "Environmental Science – working with the Earth", Eleventh Edition, Thomson Brooks /Cole, 2006
- Dr.Pratiba Sing, Dr.AnoopSingh and Dr.Piyush Malaviya, "Text Book of Environmental and Ecology", Acme Learning Pvt. Ltd. New Delhi.

CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND HUMAN RIGHTS - 2017 SCHEME
VTU CBCS 17CPH39

Module-1 Introduction and Basic Information about Indian Constitution 3 hours

Introduction and Basic Information about Indian Constitution

- The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, the making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) & it's present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-2 Union Executive and State Executive 3 hours

Union Executive and State Executive

- Parliamentary System, Federal System, Centre-State Relations.



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- Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Article 370,371,371J) for some States. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-3 Elections, Amendments and Emergency Provisions 3 hours

Elections, Amendments and Emergency Provisions

- Elections, Electoral Process, and Election Commission of India, Election Laws.
- Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Recent Amendments with explanation. Important Judgements with **Explanation and its impact on society** (from the list of Supreme Court Judgements). Emergency Provisions, types of Emergencies and it's consequences. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-4 Constitutional Provisions/ Local Administration/ Human Rights 3 hours

Constitutional Provisions/ Local Administration/ Human Rights

- **Special Constitutional Provisions for SC & ST, OBC, Special Provision for Women, Children & Backward Classes.** Local Administration: Powers and functions of Municipalities and Panchayats System. Co – Operative Societies and Constitutional and Non-constitutional Bodies. **Human Rights/values – Meaning and Definitions, Legislative Specific Themes in Human Rights and Functions/ Roles of National Human Rights Commission of India.** Human Rights (Amendment Act)2006.

Module-5 Professional / Engineering Ethics 3 hours

Professional / Engineering Ethics

- **Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism,** Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India) : Profession, Professionalism, Professional Responsibility. Clash of Ethics, Conflicts of Interest.

Responsibilities in Engineering

- Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights),
- Risks, Safety and liability in Engineering. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Course Outcomes:

On completion of this course, students will be able to,

1. Have general knowledge and legal literacy about Indian Constitution and there by it helps to take up competitive examinations & to manage/face complex societal issues in society.
2. Understand state and central policies(Union and State Excutive), fundamental Rights & their duties.
3. Understand Electoral Process, Amendments and special provisions in Constitution.
4. Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, with Human Rights and NHRC.
5. Understand Engineering & Professional ethics and responsibilities of Engineers.

Question paper pattern for SEE and CIE.



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- The SEE question paper will be set for 30 marks and the pattern of the question paper will be objective type (MCQ).
- For the award of 20 CIE marks, refer the University Scheme and Syllabus book.

Text Books:

1. Durga Das Basu (DD Basu): Introduction to the Constitution on India, (Students Edition.) Prentice -Hall EEE, 19th / 20th Edn., (Latest Edition) or 2008.
2. Shubham Singles, Charles E. Haries, and Et al: Constitution of India and Professional Ethics by Cengage Learning India Private Limited, Latest Edition – 2018.

Reference Books:

1. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, Engineering Ethics, Prentice -Hall of India Pvt. Ltd. New Delhi, 2004
2. M.V.Pylee, An Introduction to Constitution of India, Vikas Publishing, 2002.
3. Latest Publications of NHRC – Indian Institute of Human Rights, New Delhi.



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B.E. Mechanical Engineering

V SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week			Examination				Credits
			Lecture	Tutorial	Practical	Duration (Hours)	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15ME51	Management and Engineering Economics	3	2	0	03	80	20	100	4
2	15ME52	Dynamics of Machinery	3	2	0	03	80	20	100	4
3	15ME53	Turbo Machines	3	2	0	03	80	20	100	4
4	15ME54	Design of Machine Elements - I	3	2	0	03	80	20	100	4
5	15ME55X	Professional Elective-I	3	0	0	03	80	20	100	3
6	15ME56X	Open Elective-I	3	0	0	03	80	20	100	3
7	15MEL57	Fluid Mechanics & Machinery Lab	1	0	2	03	80	20	100	2
8	15MEL58	Energy Lab	1	0	2	03	80	20	100	2
TOTAL			21	06	04		640	160	800	26

Professional Elective-I		Open Elective-I	
15ME551	Refrigeration and Air-conditioning	15ME561	Optimization Techniques
15ME552	Theory of Elasticity	15ME562	Energy and Environment
15ME553	Human Resource Management	15ME563	Automation and Robotics
15ME554	Non Traditional Machining	15ME564	Project Management

- 1. Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.
- 2. Professional Elective:** Elective relevant to chosen specialization/ branch
- 3. OpenElective:** Electives from other technical and/or emerging subject areas.



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MANAGEMENT AND ENGINEERING ECONOMICS

Course	Code	Credits	L-T-P	Assessment		Exam Duration
				SEE	CIA	
Management And Engineering Economics	15ME51	04	3-2-0	80	20	3Hrs

MODULE – 1

Management: Introduction - Meaning - nature and characteristics of Management, Scope and Functional areas of management - Management as science, art of profession - Management & Administration - Roles of Management, Levels of Management, Development of Management Thought- early management approaches – Modern management approaches.

Planning: Nature, importance and purpose of planning process Objectives -Types of plans (Meaning Only) - Decision making Importance of planning - steps in planning & planning premises - Hierarchy of plans. **10 Hours**

MODULE - 2

Organizing And Staffing: Nature and purpose of organization Principles of organization - Types of organization - Departmentation Committees-Centralization Vs Decentralization of authority and responsibility - Span of control - MBO and MBE (Meaning Only) Nature and importance of staffing--:Process of Selection & Recruitment (in brief).

Directing & Controlling: Meaning and nature of directing Leadership styles, Motivation Theories, Communication - Meaning and importance - coordination, meaning and importance and Techniques of Co Ordination. Meaning and steps in controlling - Essentials of a sound control system - Methods of establishing control (in brief) **10 Hours**

MODULE -3

Introduction: Engineering and economics, Problem solving and decision making, Laws of demand and supply, Difference between Microeconomics & Macroeconomics, equilibrium between demand & supply, elasticity of demand, price elasticity, income elasticity.

Law of Returns, Interest and interest factors, simple and compound interest, Cash flow diagrams, personal loans and EMI payment calculation with flexible interest rates, Discussion and problems **10 Hours**

MODULE -4

Present, future and annual worth and rate of returns: Basic present worth comparisons, Present worth-equivalence, Assets with unequal lives and infinite lives, future worth comparisons, payback comparisons, Equivalent annual worth comparisons, situations for annual worth comparisons.

Asset life, Rate of return, minimum acceptable rate of return, IRR anomalies and misconceptions, Cost of capital, comparisons of all present future and annual worth with IRR, product costing, Discussions and problems **10 Hours**

MODULE -5

Costing and depreciation: Components of costs, estimation of selling price, marginal cost, first cost, all kinds of overheads, indirect cost estimation with depreciation, mensuration and estimation of material cost, cost estimation of mechanical process, idling time.

Product costing (approaches to product costing), causes of depreciation, methods of computing depreciation charges, straight line method, declining balance method, sum of years method, sinking fund method, service output methods, taxation concepts, personal income taxes and corporate taxes, Discussions and problems. **10 Hours**

Course outcomes

On completion of this subject students will be able to

1. Understand needs, functions, roles, scope and evolution of Management
2. Understand importance, purpose of Planning and hierarchy of planning and also analyze its types
3. Discuss Decision making, Organizing, Staffing, Directing and Controlling
4. Select the best economic model from various available alternatives
5. Understand various interest rate methods and implement the suitable one.
6. Estimate various depreciation values of commodities
7. Prepare the project reports effectively.

TEXT BOOKS

1. Principles of Management by Tripathy and Reddy
2. Mechanical estimation and costing, T.R. Banga & S.C. Sharma, 17th edition 2015
3. Engineering Economy, Riggs J.L. McGraw Hill, 2002
4. Engineering Economy, Thuesen H.G. PHI, 2002

REFERENCE BOOKS

1. Management Fundamentals- Concepts, Application, Skill Development - RobersLusier - Thomson
2. Basics of Engineering Economy, Leland Blank & Anthony Tarquin, McGraw Hill Publication (India) Private Limited
3. Engineering Economics, R.Paneerselvam, PHI publication
4. Fundamentals of Management: Essential Concepts and Applications, Pearson Education, Robbins S.P. and Decenzo David A.
5. Economics: Principles of Economics, N Gregory Mankiw, Cengage Learning
6. Modern Economic Theory, By Dr. K. K. Dewett & M. H. Navalur, S. Chand Publications



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HUMAN RESOURCE MANAGEMENT
(Professional Elective-I)

Course	Code	Credits	L-T-P	Assessment		Exam Duration
				SEE	CIA	
Human Resource Management	15ME553	03	3-0-0	80	20	3Hrs

Course Objectives:

1. To develop a meaningful understanding of HRM theory, functions and practices.
2. To apply HRM concepts and skills across various types of organizations.

Module – 1

Human Resource Management

Introduction, meaning, nature, scope of HRM. Importance and Evolution of the concept of HRM. Major functions of HRM, Principles of HRM, Organization of Personnel department, Role of HR Manager.

Job Analysis: Meaning, process of job analysis, methods of collecting job analysis data, Job Description and Specification, Role Analysis.

08 hours

Module – 2

Human Resource Planning: Objectives, Importance and process of Human Resource planning, Effective HRP

Recruitment: Definition, Constraints and Challenges, Sources and Methods of Recruitment, New Approaches to recruitment.

Selection: Definition and Process of Selection.

08 hours

Module – 3

Placement: Meaning, Induction/Orientation, Internal Mobility, Transfer, Promotion, Demotion and Employee Separation.

Training and development: Training v/s development, Training v/s Education, Systematic Approach to Training, Training Methods, Executive Development, Methods and Development of Management Development, Career and Succession Planning.

08 hours

Module – 4

Performance Appraisal: Concept of Performance Appraisal, the Performance Appraisal process, Methods of Performance Appraisal, Essential Characteristic of an Effective Appraisal System.

Compensation: Objectives of Compensation Planning, Job Evaluation, Compensation Pay Structure in India, Wage and Salary Administration, Factors Influencing Compensation Levels, Executive Compensation.

09 hours



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Module – 5

Employee Welfare: Introduction, Types of Welfare Facilities and Statutory Provisions.

Employee Grievances: Employee Grievance procedure, Grievances management in Indian Industry.

Discipline: Meaning, approaches to discipline, essential of a good disciplinary system, managing difficult employees.

09 hours

Course Outcomes

On completion of the course the student will be able to

1. Understand the importance, functions and principles Human Resource Management and process of Job analysis
2. Summarize the objectives of Human Resource planning, Recruitment and selection process
3. Understand the process involved in Placement, Training and development activities.
4. Understand the characteristics of an effective appraisal system and compensation planning.
5. Understand the issues related to employee welfare, grievances and discipline.

TEXTBOOKS

1. Human Resource Management- Rao V.S.P, Excel books, 2010
2. Human Resource Management- Cynthia D. Fisher, 3/e, AIPD, Chennai
3. Human Resource Management: A South Asian Perspective, Snell, Bohlander&Vohra, 16th Rep., Cengage Learning, 2012
4. Human Resource Management- Lawrence S Kleeman, Biztantra, 2012
5. Human Resource Management- Aswathappa K, HPH

REFERENCE BOOKS

1. Human Resource Management- John M. Ivancevich, 10/e, McGraw Hill.
2. Human Resource Management in Practice- Srinivas R. Kandulla, PHI
3. Human Resource Management- Luis R Gomez-Mejia, David B. Balkin, Robert L Cardy, 6/e, PHI, 2010



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ENERGY AND ENVIRONMENT
(OPEN ELECTIVE - I)

Course	Code	Credits	L-T-P	Assessment		Exam Duration
				SEE	CIA	
Energy And Environment	15ME562	03	3-0-0	80	20	3Hrs

Course Objectives

1. Understand energy scenario, energy sources and their utilization
2. Learn about methods of energy storage, energy management and economic analysis
3. Have proper awareness about environment and eco system.
4. Understand the environment pollution along with social issues and acts.

Module - I

Basic Introduction to Energy: Energy and power, forms of energy, primary energy sources, energy flows, world energy production and consumption, Key energy trends in India: Demand, Electricity, Access to modern energy, Energy production and trade, Factors affecting India's energy development: Economy and demographics Policy and institutional framework, Energy prices and affordability, Social and environmental aspects, Investment. **8 Hours**

Module - II

Energy storage systems: Thermal energy storage methods, Energy saving, Thermal energy storage systems

Energy Management: Principles of Energy Management, Energy demand estimation, Energy pricing

Energy Audit: Purpose, Methodology with respect to process Industries, Characteristic method employed in Certain Energy Intensive Industries

Economic Analysis: Scope, Characterization of an Investment Project **10 Hours**

Module - III

Environment: Introduction, Multidisciplinary nature of environmental studies- Definition, scope and importance, Need for public awareness.

Ecosystem: Concept, Energy flow, Structure and function of an ecosystem. Food chains, food webs and ecological pyramids, Forest ecosystem, Grassland ecosystem, Desert ecosystem and Aquatic ecosystems, Ecological succession. **8 Hours**

Module - IV

Environmental Pollution: Definition, Cause, effects and control measures of - Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution and Nuclear hazards, Solid waste Management, Disaster management Role of an individual in prevention of pollution, Pollution case studies. **8 Hours**

Module - V

Social Issues and the Environment: Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies. Wasteland reclamation, Consumerism and waste products, Environment Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act, Issues involved in enforcement of environmental legislation. **8 Hours**

Course Outcomes

At the end of the course, the student will be able to:

1. Summarize the basic concepts of energy, its distribution and general Scenario.
2. Explain different energy storage systems, energy management, audit and economic analysis.
3. Summarize the environment eco system and its need for awareness.
4. Identify the various types of environment pollution and their effects.
5. Discuss the social issues of the environment with associated acts.

TEXT BOOKS:

1. Textbook for Environmental Studies For Undergraduate Courses of all Branches of Higher Education by University grant commission and Bharathi Vidyapeeth Institute of environment education and Research, Pune
2. De, B. K., Energy Management audit & Conservation, 2nd Edition, Vrinda Publication, 2010.

REFERENCE BOOKS:

1. Turner, W. C., Doty, S. and Truner, W. C., Energy Management Hand book, 7th edition, Fairmont Press, 2009.
2. Murphy, W. R., Energy Management, Elsevier, 2007.
3. Smith, C. B., Energy Management Principles, Pergamum, 2007
4. Environmental pollution control Engineering by C S rao, New Age Inyernational, 2006, reprint 2015, 2nd edition
5. Environmental studies, by Benny Joseph, Tata McGraw Hill, 2008, 2nd edition.

E- Learning

- India Energy Outlook 2015(www.iewa.org/.../IndiaEnergyOutlook_WEO2015.pdf)
- Open courseware



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PROJECT MANAGEMENT
(OPEN ELECTIVE – I)

Course	Code	Credits	L-T-P	Assessment		Exam Duration
				SEE	CIA	
Project Management	15ME564	03	3-0-0	80	20	3Hrs

MODULE – 1

Introduction: Definition of project, characteristics of projects, understand projects, types of projects, scalability of project tools, project roles

Project Selection And Prioritization – Strategic planning process, Strategic analysis, strategic objectives, portfolio alignment – identifying potential projects, methods of selecting projects, financial mode / scoring models to select projects, prioritizing projects, securing and negotiating projects.
08 Hours

MODULE – 2

Planning Projects: Defining the project scope, Project scope checklist, Project priorities, Work Breakdown Structure (WBS), Integrating WBS with organisation, coding the WBS for the information system.

Scheduling Projects: Purpose of a project schedule, historical development, how project schedules are limited and created, develop project schedules, uncertainty in project schedules, Gantt chart.
08 Hours

MODULE – 3

Resourcing Projects: Abilities needed when resourcing projects, estimate resource needs, creating staffing management plan, project team composition issues, Budgeting Projects: Cost planning, cost estimating, cost budgeting, establishing cost control.

Project Risk Planning: Risk Management Planning, risk identification, risk analysis, risk response planning, Project Quality Planning and Project Kickoff: Development of quality concepts, project quality management plan, project quality tools, kickoff project, baseline and communicate project management plan, using Microsoft Project for project baselines.
08 Hours

MODULE – 4

Performing Projects: Project supply chain management: - Plan purchasing and acquisitions, plan contracting, contract types, project partnering and collaborations, project supply chain management.



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Project Progress and Results: Project Balanced Scorecard Approach, Internal project, customer, financial issues, Finishing the project: Terminate project early, finish projects on time, secure customer feedback and approval, knowledge management, perform administrative and contract closure.

08 Hours

MODULE - 5

Network Analysis

Introduction, network construction - rules, Fulkerson's rule for numbering the events, AON and AOA diagrams; Critical path method (CPM) to find the expected completion time of a project, floats; PERT for finding expected duration of an activity and project, determining the probability of completing a project, predicting the completion time of project; crashing of simple projects.

10 Hours

Course Outcomes

On completion of the course the student will be able to

1. Understand the selection, prioritization and initiation of individual projects and strategic role of project management.
2. Understand the work breakdown structure by integrating it with organization.
3. Understand the scheduling and uncertainty in projects.
4. Students will be able to understand risk management planning using project quality tools.
5. Understand the activities like purchasing, acquisitions, contracting, partnering and collaborations related to performing projects.
6. Determine project progress and results through balanced scorecard approach
7. Draw the network diagram to calculate the duration of the project and reduce it using crashing.

TEXT BOOKS

1. Project Management, Timothy J Kloppenborg, Cengage Learning, Edition 2009.
2. Project Management, A systems approach to planning scheduling and controlling by Harold kerzner, CBS publication.
3. Project Management by S Choudhury, Mc Graw Hill Education (India) Pvt. Ltd. New Delhi, 2016

REFERENCE BOOKS

1. Project Management, Pennington Lawrence, Mc Graw hill
2. Project Management, A Moder Joseph and Phillips New York Van Nostrand, Reinhold.
3. Project Management, Bhavesh M. Patal, Vikas publishing House,



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B.E Biotechnology

CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND HUMAN RIGHTS - 2017 SCHEME

VTU CBCS 17CPH39

Module-1 Introduction and Basic Information about Indian Constitution 3 hours

Introduction and Basic Information about Indian Constitution

- The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, the making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) & it's present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-2 Union Executive and State Executive 3 hours

Union Executive and State Executive

- Parliamentary System, Federal System, Centre-State Relations.
- Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Article 370,371,371J) for some States. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-3 Elections, Amendments and Emergency Provisions 3 hours

Elections, Amendments and Emergency Provisions

- Elections, Electoral Process, and Election Commission of India, Election Laws.
- Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Recent Amendments with explanation. Important Judgements with Explanation and its impact on society (from the list of Supreme Court Judgements). Emergency Provisions, types of Emergencies and it's consequences. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-4 Constitutional Provisions/ Local Administration/ Human Rights 3 hours

Constitutional Provisions/ Local Administration/ Human Rights

- Special Constitutional Provisions for SC & ST, OBC, Special Provision for Women, Children & Backward Classes. Local Administration: Powers and functions of Municipalities and Panchayats System. Co – Operative Societies and Constitutional and Non-constitutional Bodies. Human Rights/values – Meaning and Definitions, Legislative Specific Themes in Human Rights and Functions/ Roles of National Human Rights Commission of India. Human Rights (Amendment Act)2006.

Module-5 Professional / Engineering Ethics 3 hours

Professional / Engineering Ethics

- Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering



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Ethics, Code of Ethics as defined in the website of Institution of Engineers (India) : Profession, Professionalism, Professional Responsibility. Clash of Ethics, Conflicts of Interest.

Responsibilities in Engineering

- Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights),
- Risks, Safety and liability in Engineering. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Course Outcomes:

On completion of this course, students will be able to,

1. Have general knowledge and legal literacy about Indian Constitution and there by it helps to take up competitive examinations & to manage/face complex societal issues in society.
2. Understand state and central policies(Union and State Executive), fundamental Rights & their duties.
3. Understand Electoral Process, Amendments and special provisions in Constitution.
4. Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, with Human Rights and NHRC.
5. Understand Engineering & Professional ethics and responsibilities of Engineers.

Question paper pattern for SEE and CIE.

- The SEE question paper will be set for 30 marks and the pattern of the question paper will be objective type (MCQ).
- For the award of 20 CIE marks, refer the University Scheme and Syllabus book.

Text Books:

1. Durga Das Basu (DD Basu): Introduction to the Constitution on India, (Students Edition.) Prentice -Hall EEE, 19th / 20th Edn., (Latest Edition) or 2008.
2. Shubham Singles, Charles E. Haries, and Et al: Constitution of India and Professional Ethics by Cengage Learning India Private Limited, Latest Edition – 2018.

Reference Books:

1. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, Engineering Ethics, Prentice -Hall of India Pvt. Ltd. New Delhi, 2004
2. M.V.Pylee, An Introduction to Constitution of India, Vikas Publishing, 2002.
3. Latest Publications of NHRC – Indian Institute of Human Rights, New Delhi.



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ENVIRONMENTAL STUDIES

Laboratory Code	17CIV18/17CIV28	IA Marks	20
Number of Lecture Hours/Week	02	Exam Marks	30
Total Number of Lecture Hours	25	Exam Marks	02

Course Objectives:

- To identify the major challenges in environmental issues and evaluate possible solutions.
- Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
- To analyze an overall impact of specific issues and develop environmental management plan.

Module -1 (05 – Hours)

Introduction Environment – Components of Environment Ecosystem: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & Social Security. Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation Environmental Impact Assessment, Sustainable Development

Module -2 (05 – Hours)

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. Energy – Different types of energy, Conventional sources & Non Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy.

Module -3 (05 – Hours)

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management.

Module -4 (05 – Hours)

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. Solid Waste Management, E – Waste Management & Biomedical Waste Management – Sources, Characteristics & Disposal methods.

Module -5 (05 – Hours)

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. Environmental Acts & Regulations, Role of government, Legal aspects, Role of Nongovernmental Organizations (NGOs) , Environmental Education & Women Education.

Course Outcome:

Students will be able to,

- Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
- Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,
- Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components



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- Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:

- Benny Joseph (2005), "Environmental Studies", Tata McGraw – Hill Publishing Company Limited.
- R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
- R Rajagopalan, "Environmental Studies – From Crisis to Cure", Oxford University Press, 2005,
- Aloka Debi, "Environmental Science and Engineering", Universities Press (India) Pvt. Ltd. 2012.

Reference Books:

- Raman Sivakumar, "Principals of Environmental Science and Engineering", Second Edition, Cengage learning Singapore, 2005
- P. Meenakshi, "Elements of Environmental Science and Engineering", Prentice Hall of India Private Limited, New Delhi, 2006
- S.M. Prakash, "Environmental Studies", Elite Publishers Mangalore, 2007
- Erach Bharucha, "Text Book of Environmental Studies", for UGC, University press, 2005
- G.Tyler Miller Jr., "Environmental Science – working with the Earth", Tenth Edition, Thomson Brooks /Cole, 2004
- G.Tyler Miller Jr., "Environmental Science – working with the Earth", Eleventh Edition, Thomson Brooks /Cole, 2006
- Dr.Pratiba Sing, Dr.AnoopSingh and Dr.Piyush Malaviya, "Text Book of Environmental and Ecology", Acme Learning Pvt. Ltd. New Delhi.



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BIOTECHNOLOGY FOR SUSTAINABLE ENVIRONMENT
 [As per Choice Based Credit System (CBCS) scheme] SEMESTER – V

Sub.Code:	15BT563	I.A.Marks:	20
Hours/week:	3	ExamHrs. :	4
TotalHours:	40	ExamMarks :	80

CREDITS – 03

Course objectives:

This course will enable students to learn

- The underlying concepts of Environment and its pollution.
- Treatment of wastewater and solid waste.
- The importance of Biofuels against conservative fuels

MODULE – 1

WATER POLLUTION AND TREATMENT OF

WASTEWATER: Water as Resource, Drinking water quality, water consumption standards, Types of Water Pollutants and sources, State and central wastewater quality and its various discharge standards. Wastewater Sampling and Characteristics - Physical, Chemical and Biological characteristics of wastewater: Solving numerical on the sampling, characteristics and estimation of wastewater flow rates. Biotechnological approach for water purification

08 L1, L2, L3

MODULE – 2

TERTIARY/ADVANCED WASTEWATER

TREATMENT: Secondary/Biological treatment process, aerobic/anaerobic attached and suspended growth process, Sludge treatment & Disposal. Ultrafiltration, Filtration, Adsorption Activated Carbon, Ion Exchange, Reverse Osmosis, Electrodialysis cell. Wastewater treatment in Industries: Paper and Pulp, distillery, Leather, Food processing such as dairy and fruit processing and Textile processing.

MODULE – 3



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<p>AIRPOLLUTIONANDNOISEPOLLUTION</p> <p>Sources,Classification,Propertiesofairpollutants,andEffectsofairpollutiononhealth,vegetationandmaterials.Airpollutionsampling:AmbientsamplingandStacksampling,Analysis ofairpollutants,ControlmethodsandEquipmentforparticulatesandgaseouspollutants,ApplicationstoIndustries:Thermalpowerplants,MetallurgicalandCementindustries.Sources,EffectsofNoise,EquipmentforNoiseMeasurement,andApproachesforNoiseControl</p>		
<p>MODULE- 4</p>		
<p>BIOFUELS:Renewableandnon-renewableresources. Conventional fuels and their environmentalimpacts.Animaloils.Modernfuelsandtheirenvironmentalimpacts.Biotechnologicalinputsinproducing good quality natural fibres. Plant sourceslikeJetropha, Pongamia etc. Waste as an energy core,energy recovery systems for urban waste, technologyevaluation,conceptofgasificationofwasteswithmoltensalts to produce low-BTUGas;pipelinegasfromsolidwastesbysyngasrecyclingprocess;conversion of feedlot wastes into pipeline gas; fuelsandchemicalsfromcrops,productionofoilfromwoodwaste,fuelsfromwoodwaste,methanol productionfromorganic wastes</p>		
<p>MODULE- 5</p>		
<p>SOLIDWASTEMANAGEMENT:Definitions,Characteristicsandperspectives,Types ofsolidwastes,SourcesofSolidwaste,Propertiesofsolidwaste– Numericalproblems,SolidwasteManagement –AnOverview:- Materialflowsociety,Reductioninrawmaterialusage,Solidwastegeneration,andreuse withmaterials,energyrecovery.SolidwastemanagementthroughBiotechnologicalprocessesinvolvingHazardouswastes,Biomedicalwastes,Dairy wastes, Pulp industry wastes, Textile industrywastes,leatherindustrywastesandpharmaceutical industrywastes,petroleumwastetreatment</p>	<p align="center">08</p>	<p align="center">L1,L2,L3</p>



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Courseoutcomes:

Afterstudyingthis course, students will beableto:

- Applyreasoningtoidentifythecomponentsofenvironmentalecosystemsandeffectofpollutant on environment.
- Characterizethevariousparametersfortreatmentofwater,wastewaterandsolid wastefromtheirsourcestoprovidevalid conclusions.

- **Understand the impact of recovery, recycle of the useful resources from the wastes by adopting advanced techniques to demonstrate the need for sustainable development.**
- **Identify and demonstrate the knowledge to use suitable equipment for abatement and control of air & noise pollution**

Graduate Attributes (as per NBA):

- **Design / development of solutions (environmental)**
- **Engineer and society**
- **Professional Ethics.**
- **Lifelong learning.**
- **Problem analysis**

Question paper pattern:

- **The question paper will have ten questions.**
- **Each full question consists of 16 marks.**
- **There will be 2 full questions (with a maximum of four sub questions) from each module.**
- **Each full question will have sub questions covering all the topics under a module.**
- **The students will have to answer 5 full questions, selecting one full question from each module.**

TEXT BOOKS

1. **Environmental Engineering by Howard S. Peavey, Donald R. Rowe, George Techobanolous, McGraw-Hill International Editions.**
2. **Wastewater Engineering – Treatment, Disposal and Reuse, METCALF AND EDDY, INC. 3rd Edition Tata McGraw-Hill Publishing Company Limited.**
3. **Environmental Biotechnology by Foster C.F., John ware D.A., Ellis Horwood Limited.**
4. **ENVIRONMENTAL BIOTECHNOLOGY by INDU SHEKHAR THAKUR, IK Publishers.**
5. **Industrial Microbiology by L.E. Casida, Willey Eastern Ltd. Industrial Microbiology by Prescott & Dunn, CBS Publishers.**



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REFERENCE BOOKS

1. Fuels from Waste by Larry Anderson and David A Tillman, Academic Press.
2. Bioprocess Technology- fundamentals and applications, S O Enfors& L Hagstrom, RIT, Stockholm.
3. Comprehensive Biotechnology by M.Y. Young (Eds.), Pergamon Press.
4. Biotechnology, Economic & Social Aspects by E.J. Dasilva, C Ratledge& A Sasson, Cambridge Univ. Press, Cambridge.
5. Environmental Biotechnology by Pradipta Kumar Mahopatra.

BIO-BUSINESS AND ENTREPRENEURSHIP

[As per Choice Based Credit System (CBCS) scheme] SEMESTER-VI

Sub.Code:	15BT61	I.A.Marks:	20
Hours/week:	4	ExamHrs.:	3
TotalHours:	50	ExamMarks:	80

CREDITS-04

Course objectives: This course will enable students to learn about the project management, entrepreneurship and IPR.

MODULES	TEACHING HOURS	REVISED BLOOM'S TAXONOMY (RBT) LEVEL
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MODULE-1



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<p>BIOENTERPREUNERSHIP</p> <p>Introduction to bio-business, from the Indian context, SWOT analysis of bio-business. Concept of Entrepreneurship- Evolution of Entrepreneurship, Development of Entrepreneurship; Stages in entrepreneurial process; Role of entrepreneurs in Economic Development; Entrepreneurship in India; Entrepreneurship- its barriers. Small scale industries: Definition; Characteristics; Need and rationale; Objectives; Scope; Market Feasibility Study; Technical Feasibility Study; Financial Feasibility Study & Social Feasibility Study. Global bio business and industry future trends.</p>	<p>10</p>	<p>L1,L2</p>
<p>MODULE-2</p>		
<p>ENTREPRENEURSHIP OPPORTUNITY IN AGRIBIOTECHNOLOGY</p> <p>Business opportunity, Essential requirement, marketing, strategies, schemes, challenges and scope- with case study on Plant cell and tissue culture technique, polyhouse culture. Herbal bulk drug production, Nutraceuticals, value added herbal products. Bioethanol production using Agriwaste, Algal source.</p>	<p>10</p>	<p>L1,L2,</p>
<p>Integration of system biology for agricultural applications. Biosensor development in Agrimanagement</p>		
<p>MODULE-3</p>		
<p>ENTREPRENEURSHIP OPPORTUNITY IN INDUSTRIAL BIOTECHNOLOGY</p> <p>Business opportunity, Essential requirement, marketing strategies, schemes, challenges and scope- with case study- Pollution monitoring and Bioremediation for Industrial pollutants, Pesticides, Herbicides etc. Integrated compost production- microbe enriched compost.</p> <p>Biopesticide/insecticide production. Fermented products- probiotic and prebiotics. Stem cell production, stem cell bank, contract research. Production of monoclonal/polyclonal antibodies, Single cell protein and secondary metabolite production Contact research in microbial genomics</p>	<p>10</p>	<p>L1,L2,L3</p>
<p>MODULE-4</p>		



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<p>PROJECTMANAGEMENT,INTELLECTUALPROPERTY, TECHNOLOGY MANAGEMENT ANDSTARTUPSCHMES</p> <p>Building Biotech business challenges in Indian context-biotechpartners(BICEPS,BIRAC,DBT,Incubationcenters. Etc.), operational biotech parks in India.IndianCompanyactforBiobusiness-schemesandsubsidie</p> <p>MeaningofProject;ProjectIdentification;ProjectSelection;ProjectReport;NeedandSignificanceofReport; Contents; Formulation; Guidelines by PlanningCommission for Project report; Network Analysis;</p> <p>ErrorsofProjectReport;ProjectAppraisal.Identificationofbusinessopportunities:MarketFeasibilityStudy;TechnicalFeasibilityStudy;Financial FeasibilityStudy&SocialFeasibilityStudy.</p> <p>Patent expiry and Entrepreneurship opportunity, PrinciplesofTechnologyleasing,licensingandtransfer,StartupschemesinIndiangovernment,Businessincubationsupportschemes,Successful tartups-casestudy.</p>	<p>10</p>	<p>L1,L2</p>
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<p>MODULE-5</p>		
<p>Regulatoryaffairs,Bioethics&Bio-safety:</p> <p>Regulatory affairs in Bio business-regulatory bodies andtheir regulations (ex.FDA, EU, DSIR, AYUSH, FSSAetc.,)</p> <p>Publiceducationoftheprocessofbiotechnologyinvolvedin generating new forms of life for informed decision-making. Ethical concerns of biotechnology research andinnovation- Interference with nature, fear of unknown,unequaldistributionofrisks.</p> <p>Rational vs. subjective perceptions of risks and benefits,relationshipbetweenrisk,hazard,exposureandsafeguards. biosafety concerns at the level of individuals,institutions, society, region, country and the world. TheCartagenaprotocolonbiosafety.Biosafetymangement.</p>	<p>10</p>	<p>L1,L2</p>



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Courseoutcomes:

Afterstudyingthiscourse,studentswillbeableto:

- Identifypotentialentrepreneurshipopportunityinbiotechnology
- Effectivelyplanaprojectwithaworkplan,budgetandschedule
- Assessthegovernmentstrategiesandschemesforstartups
- Understandtheconceptsofbioethics,biosafetyandRegulatorynorms

GraduateAttributes(as perNBA):

- Engineeringknowledge
- Conductinvestigationofcomplexproblem
- Engineerandsociety
- Environmentandsustainability
- ProfessionalEthics
- Projectmanagementandfinance
- .Lifelonglearning.

Questionpaperpattern:

- Thequestionpaperwillhavetenquestions.
- Eachfullquestionconsistsof16marks.
- Therewillbe2fullquestions(withamaximumoffoursubquestions)fromeachmodule.
- Eachfullquestionwillhavesubquestionscoveringallthetopicsunderamodule.
- Thestudentswillhavetoanswer5fullquestions,selectingonefullquestionfromeachmodule.

TEXTBOOKS

1. PrinciplesofManagement–P.C.Tripathi,P.N.Reddy–TataMcGrawHill,
2. EntrepreneurshipDevelopment-S.S.Khanka-S.Chand&Co.
3. PracticalApproachtoIPRbyRachanaSinghPuri,IKIntl.Ltd.

PROJECT MANAGEMENT & IPR

Sub. Code : 10BT-81 I.A Marks : 25

Hours/week : 04 Exam Hrs. : 03

Total Hours : 52 Exam Marks : 100

PART A

UNIT 1:

INTRODUCTION

Definitions, network planning techniques, benefits and limitations of network planning, project reporting, case studies. **02 Hours**

UNIT 2:

PROJECT PLANNING



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Planning procedures, developing a network planning diagram, project evaluation and review techniques. Developing the project schedule: scheduling procedure, timing estimates, manual timing calculations, optional start and finish times, tabulating the schedule, setting up the calendar schedule, constructing the bar chart time, schedule. Monitoring and controlling the project: constructing the progress schedule constructing the summary bar chart, constructing the project status report, status reporting using the milestone approach. Scheduling and Controlling Project Costs: Developing the Project Cost Schedule Monitoring Project Costs. Cost Minimizing: Time/Cost Trade-Offs, Planning Personnel/Labor Requirements, Need for Planning Personnel/Labor, Planning Personnel Requirements, Early Start Scheduling.

12 Hours

UNIT 3:

ROLE OF THE COMPUTER

Software Packages, features of a Project Management Package, Background Planning the Project Scheduling the Project, Monitoring the Project Schedule, Controlling Project Costs, Planning for Labor and Personnel, Using the Computer for Planning and Scheduling. **06 Hours**

UNIT 4:

MANAGEMENT SYSTEM

Background developing a plan of action, conducting the audit, preparing the feasibility report, obtaining management approval, planning and scheduling project implementation, procuring, installing, and trying out the equipments, designing and constructing the site **06 Hours**

PART B

UNIT 5:

IPR

Introduction to **IPR**, Concept of Property, Marx's theory on Property, Constitutional aspects of Intellectual property. Basic principles of Patent laws: Historical background in UK, US and India. Basis for **IP protection**. Criteria for patentability: Novelty, Utility, and Inventive step, Non obviousness, Non patentable invention. **06 Hours**

UNIT 6:

CONVENTIONS & AGREEMENTS

Paris convention (1883), Berne convention for protection of literary and artistic works (1886), Patent Corporation Treaty (PCT), Madrid agreement (1891) and protocols of relative agreement (1989). Rome convention (1961) on the protection of performances, producers of phonograms and Broadcasting organization, TRIPS agreement (1994), WIPO performance and phonograms Treaty (WPPT, 1996). **06 Hours**

UNIT 7:

74

PATENT LAWS & BT

Objectives, Evolution of Biotechnology, Application of Biotechnology, Commercial potential of BT invention, R & D investments, Rationale and applications. Concept of Novelty and Inventive step in BT, Micro organisms and BT inventions, Moral issues in patenting BT invention. Substantiation of Patent laws & international agreements related to pharma, **microbial**,



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environmental, agricultural and informatics sectors via classical case studies. **06 Hours**

UNIT 8:

TRADITIONAL KNOWLEDGE

Introduction, Justification for plant variety protection, International position, UPOV, 1961, 1978, 1991 guidelines, Plant variety protection in India. Justification for geographical indications, Multi-lateral treaties. Concept of Traditional knowledge, stake holders, issues concerning traditional knowledge, Bioprospecting & Biopyracy – ways to tackle, Protectability of traditional knowledge under existing **IP framework**, need for sui-generis regime, Traditional knowledge on the International arena, Traditional knowledge at WTO and National level, Traditional knowledge digital library. **08 Hours**

TEXT BOOKS

The Law & Strategy of Biotechnology Patents by Sibley Kenneth.

Intellectual Property by Bentley and Lionel, Oxford University Press.

Cases and Materials on Intellectual Property by Cornish, W R.

Project Management by Sahni, Ane Books.

Project Management for Business & Engineering: Principles and Practice by John M Nicholas, Elsevier.

Project Management for Business & Technology, Nicholas, PHI.

Practical Approach to IPR by Rachana Singh Puri, IK Intl. Ltd.

REFERENCE BOOKS

Intellectual Property and Criminal Law by Gopalakrishnan, N S, Bangalore: National Law School of India University.

Intellectual Property Law by Tina Gart and Linda Fazzani, London: McMillan Publishing Co.

Intellectual Property Rights in the WTO and developing contry by Watal Jayashree, Oxford University Press.



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BIOETHICS & BIOSAFETY

Sub. Code : 10BT-82 I.A Marks : 25

Hours/week : 04 Exam Hrs. : 03

Total Hours : 52 Exam Marks : 100

PART A

UNIT 1:

BIOTECHNOLOGY AND SOCIETY

Introduction to science, technology and society, issues of access-Case studies/experiences from developing and developed countries. Ownership, monopoly, traditional knowledge, biodiversity, benefit sharing, environmental sustainability, public vs. private funding, biotechnology in international relations, globalization and development divide. Public acceptance issues for biotechnology: Biotechnology and hunger: Challenges for the Indian Biotechnological research and industries. **08 Hours**

UNIT 2:

LEGAL ISSUES

The legal, institutional and socioeconomic impacts of biotechnology; biotechnology and social responsibility, Public education to increase the awareness of bioethics with regard to generating new forms of life for informed decision making – with case studies. **04 Hours**

75

UNIT 3:

BIOETHICS

Principles of **bioethics**: Legality, **morality** and **ethics**, autonomy, **human rights**, beneficence, privacy, justice, equity etc. The expanding scope of ethics from biomedical practice to biotechnology, **bioethics vs. business ethics**, **ethical** dimensions of **IPR**, technology transfer and other global biotech issues. **06 Hours**

UNIT 4:

BIOSAFETY CONCEPTS AND ISSUES

Ethical conflicts in biotechnology - interference with nature, fear of unknown, unequal distribution of risks and benefits of biotechnology, Rational vs. subjective perceptions of risks and benefits, relationship between risk, **hazard**, exposure and safeguards, Biotechnology and **biosafety** concerns at the level of individuals, institutions, society, region, country and the world. The Cartagena protocol on biosafety. Biosafety management. **Ethical implications** of biotechnological products and techniques. **08 Hours**

PART B

UNIT 5:

BIOSAFETY IN THE LABORATORY

Laboratory associated infections and other hazards, assessment of biological hazards and levels of **biosafety**, prudent **biosafety** practices in the laboratory/ institution. Experimental protocol approvals, levels of containment. **04 Hours**

UNIT 6:

REGULATIONS

Biosafety assessment procedures in India and abroad. International dimensions in **biosafety**,



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bioterrorism and convention on biological weapons. Social and ethical implications of biological weapons. **Biosafety** regulations and national and international guidelines with regard to recombinant DNA technology. Guidelines for research in transgenic plants. Good manufacturing practice and Good lab practices (GMP and GLP). National and international regulations for food and pharma products. **08 Hours**

UNIT 7:

ECOLOGICAL & FOOD SAFETY

The GM-food debate and biosafety assessment procedures for biotech foods & related products, including transgenic food crops, case studies of relevance. Key to the environmentally responsible use of biotechnology. Environmental aspects of biotech applications. Use of genetically modified organisms and their release in environment. **06 Hours**

UNIT 8:

AGRI & PHARMA SECTOR

Discussions on recombinant organisms and transgenic crops, with case studies of relevance. Plant breeder's rights. Legal implications, Biodiversity and farmers rights. Biosafety assessment of pharmaceutical products such as drugs/vaccines etc. Biosafety issues in Clinical Trials.

08 Hours

TEXT BOOKS

Biotechnology and **Safety Assessment** by Thomas, J.A., Fuch, R.L, Academic Press.

Biological safety Principles and practices) by Fleming, D.A., Hunt, D.L, ASM Press.

Biotechnology - A comprehensive treatise. Legal economic and ethical dimensions VCH.

Bioethics by Ben Mephram, Oxford University Press.

Bioethics & Biosafety by R Rallapalli& Geetha Bali, APH Publication.

REFERENCE BOOKS

BIOETHICS & BIOSAFETY by SATEESH MK, IK Publishers

76

Biotechnologies and development by Sassaon A, UNESCO Publications.

Biotechnologies in developing countries by Sasson A, UNESCO Publishers.

Intellectual Property Rights on Biotechnology by Singh K. BCIL, New Delhi.

WTO and International Trade by M B Rao. Vikas Publishing House Pvt. Ltd.

IPR in Agricultural Biotechnology by Erbisch F H and Maredia K M. Orient Longman Ltd.

Cartagena Protocol on Biosafety.

Biological Warfare in the 21st century by M.R. Dano, Brassies London.

Safety Considerations for Biotechnology, Paris, OECD.

Biosafety Management by P.L. Traynor, Virginia polytechnic Institute Publication.



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B.E Civil Engineering

ENVIRONMENTAL STUDIES

Laboratory Code	17CIV18/17CIV28	IA Marks	20
Number of Lecture Hours/Week	02	Exam Marks	30
Total Number of Lecture Hours	25	Exam Marks	02

Course Objectives:

- To identify the major challenges in environmental issues and evaluate possible solutions.
- Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
- To analyze an overall impact of specific issues and develop environmental management plan.

Module -1 (05 – Hours)

Introduction Environment – Components of Environment Ecosystem: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & Social Security. Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation Environmental Impact Assessment, Sustainable Development

Module -2 (05 – Hours)

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. Energy – Different types of energy, Conventional sources & Non Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy.

Module -3 (05 – Hours)

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management.

Module -4 (05 – Hours)

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. Solid Waste Management, E – Waste Management & Biomedical Waste Management – Sources, Characteristics & Disposal methods.

Module -5 (05 – Hours)

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. Environmental Acts & Regulations, Role of government, Legal aspects, Role of Nongovernmental Organizations (NGOs) , Environmental Education & Women Education.

Course Outcome:

Students will be able to,

- Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
- Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,



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- Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components
- Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:

- Benny Joseph (2005), "Environmental Studies", Tata McGraw – Hill Publishing Company Limited.
- R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
- R Rajagopalan, "Environmental Studies – From Crisis to Cure", Oxford University Press, 2005,
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- S.M. Prakash, "Environmental Studies", Elite Publishers Mangalore, 2007
- Erach Bharucha, "Text Book of Environmental Studies", for UGC, University press, 2005
- G.Tyler Miller Jr., "Environmental Science – working with the Earth", Tenth Edition, Thomson Brooks /Cole, 2004
- G.Tyler Miller Jr., "Environmental Science – working with the Earth", Eleventh Edition, Thomson Brooks /Cole, 2006
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CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND HUMAN RIGHTS - 2017 SCHEME

VTU CBCS 17CPH39

Module-1 Introduction and Basic Information about Indian Constitution 3 hours

Introduction and Basic Information about Indian Constitution

- The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, the making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) & it's present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-2 Union Executive and State Executive 3 hours

Union Executive and State Executive

- Parliamentary System, Federal System, Centre-State Relations.
- Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Article 370,371,371J) for some States. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-3 Elections, Amendments and Emergency Provisions 3 hours

Elections, Amendments and Emergency Provisions

- Elections, Electoral Process, and Election Commission of India, Election Laws.
- Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Recent Amendments with explanation. Important Judgements with Explanation and its impact on society (from the list of Supreme Court Judgements). Emergency Provisions, types of Emergencies and it's consequences. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-4 Constitutional Provisions/ Local Administration/ Human Rights 3 hours

Constitutional Provisions/ Local Administration/ Human Rights

- Special Constitutional Provisions for SC & ST, OBC, Special Provision for Women, Children & Backward Classes. Local Administration: Powers and functions of Municipalities and Panchayats System. Co – Operative Societies and Constitutional and Non-constitutional Bodies. Human Rights/values – Meaning and Definitions, Legislative Specific Themes in Human Rights and Functions/ Roles of National Human Rights Commission of India. Human Rights (Amendment Act)2006.

Module-5 Professional / Engineering Ethics 3 hours

Professional / Engineering Ethics

- Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering



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Ethics, Code of Ethics as defined in the website of Institution of Engineers (India) : Profession, Professionalism, Professional Responsibility. Clash of Ethics, Conflicts of Interest.

Responsibilities in Engineering

- Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights),
- Risks, Safety and liability in Engineering. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Course Outcomes:

On completion of this course, students will be able to,

1. Have general knowledge and legal literacy about Indian Constitution and there by it helps to take up competitive examinations & to manage/face complex societal issues in society.
2. Understand state and central policies(Union and State Executive), fundamental Rights & their duties.
3. Understand Electoral Process, Amendments and special provisions in Constitution.
4. Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, with Human Rights and NHRC.
5. Understand Engineering & Professional ethics and responsibilities of Engineers.

Question paper pattern for SEE and CIE.

- The SEE question paper will be set for 30 marks and the pattern of the question paper will be objective type (MCQ).
- For the award of 20 CIE marks, refer the University Scheme and Syllabus book.

Text Books:

1. Durga Das Basu (DD Basu): Introduction to the Constitution on India, (Students Edition.) Prentice -Hall EEE, 19th / 20th Edn., (Latest Edition) or 2008.
2. Shubham Singles, Charles E. Haries, and Et al: Constitution of India and Professional Ethics by Cengage Learning India Private Limited, Latest Edition – 2018.

Reference Books:

1. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, Engineering Ethics, Prentice -Hall of India Pvt. Ltd. New Delhi, 2004
2. M.V.Pylee, An Introduction to Constitution of India, Vikas Publishing, 2002.
3. Latest Publications of NHRC – Indian Institute of Human Rights, New Delhi.



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1st Year / 2nd Semester	Civil Engineering	ENVIRONMENTAL STUDIES (17CIV18/17CIV28)
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2nd Year / 1st Semester	Civil Engineering	Kannada/ Constitution of India, Professional Ethics and Human Rights 17KL/CPH39/49
3rd Year / 2nd Semester	Civil Engineering	Environmental Protection and Management (17CV662)



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B.E Automobile Engineering

Visvesvaraya Technological University, Belagavi

REGULATIONS GOVERNING

THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech)

UNDER CHOICE BASED CREDIT SYSTEM (CBCS)

Effective from the academic year 2017-18

Annexure -1

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examination 2017-2018											
Choice Based Credit System (CBCS)											
I SEMESTER B.E./B.Tech. (PHYSICS GROUP)											
Sl. No	Course Code	Course Title	Teaching Department	Board	Teaching Hours/Week		Examination			Credits	
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks		Total Marks
1	17MAT11	Engineering Mathematics -I	Mathematics	Basic Science	04	--	03	60	40	100	4
2	17PHY12	Engineering Physics	Physics	Basic Science	04	--	03	60	40	100	4
3	17CIV13	Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	04	--	03	60	40	100	4
4	17EME14	Elements of Mechanical Engineering	Mechanical Engineering	Mechanical Engineering	04	--	03	60	40	100	4
5	17ELE17	Basic Electrical Engineering	E and E Engineering	E and E Engineering	04	--	03	60	40	100	4
6	17WSL16	Workshop Practice	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	01Hour Instruction 02Hour Practical		03	60	40	100	2
7	17PHYL17	Engineering Physics Laboratory	Physics	Basic Science	01Hour Instruction 02Hour Practical		03	60	40	100	2
8	17ENG18	Language - English (Audit Course)	Humanities	--	01	--	--	--	--	--	--
TOTAL					Theory: 21 hours Practical: 06 hours		21	420	280	700	24
II SEMESTER B.E./B.Tech. (CHEMISTRY GROUP)											
1	17MAT21	Engineering Mathematics -II	Mathematics	Basic Science	04	--	03	60	40	100	4
2	17CHE22	Engineering Chemistry	Chemistry	Basic Science	04	--	03	60	40	100	4
3	17PCD23	Programming in C and Data Structures	Any Engineering Department	Computer Science and Engineering	04	--	03	60	40	100	4
4	17CED24	Computer Aided Engineering Drawing	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	02Hour Instruction 04-Hour Practice		03	60	40	100	4
5	17ELN25	Basic Electronics	ECB/EEETOE and I	E and C Engineering	04	--	03	60	40	100	4
6	17CPL26	Computer Programming Laboratory	Any Engineering Department	Computer Science and Engineering	01Hour Tutorial 02Hour Practical		03	60	40	100	2
7	17CHEL27	Engineering Chemistry Laboratory	Chemistry	Basic Science	01Hour Tutorial 02Hour Practical		03	60	40	100	2
8	17CIV28	Environmental Studies (Audit Course)	Civil/ Environmental Engineering	Civil Engineering	01Tutorial	--	--	30	20	50	--
TOTAL					Theory: 21 hours						



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ENVIRONMENTAL STUDIES

Laboratory Code	17CIV18/17CIV28	IA Marks	20
Number of Lecture Hours/Week	02	Exam Marks	30
Total Number of Lecture Hours	25	Exam Marks	02

Course Objectives:

- To identify the major challenges in environmental issues and evaluate possible solutions.
- Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
- To analyze an overall impact of specific issues and develop environmental management plan.

Module -1 (05 – Hours)

Introduction Environment – Components of Environment Ecosystem: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & Social Security. Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation Environmental Impact Assessment, Sustainable Development

Module -2 (05 – Hours)

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. Energy – Different types of energy, Conventional sources & Non Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy.

Module -3 (05 – Hours)

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management.

Module -4 (05 – Hours)

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. Solid Waste Management, E – Waste Management & Biomedical Waste Management – Sources, Characteristics & Disposal methods.

Module -5 (05 – Hours)

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. Environmental Acts & Regulations, Role of government, Legal aspects, Role of Nongovernmental Organizations (NGOs) , Environmental Education & Women Education.

Course Outcome:

Students will be able to,

- Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
- Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,
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- Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:

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- R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
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CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND HUMAN RIGHTS - 2017 SCHEME
VTU CBCS 17CPH39

Module-1 Introduction and Basic Information about Indian Constitution 3 hours

Introduction and Basic Information about Indian Constitution

- The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, the making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) & it's present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-2 Union Executive and State Executive 3 hours

Union Executive and State Executive

- Parliamentary System, Federal System, Centre-State Relations.
- Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Article 370,371,371J) for some States. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-3 Elections, Amendments and Emergency Provisions 3 hours

Elections, Amendments and Emergency Provisions

- Elections, Electoral Process, and Election Commission of India, Election Laws.
- Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Recent Amendments with explanation. Important Judgements with Explanation and its impact on society (from the list of Supreme Court Judgements). Emergency Provisions, types of Emergencies and it's consequences. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-4 Constitutional Provisions/ Local Administration/ Human Rights 3 hours

Constitutional Provisions/ Local Administration/ Human Rights

- Special Constitutional Provisions for SC & ST, OBC, Special Provision for Women, Children & Backward Classes. Local Administration: Powers and functions of Municipalities and Panchayats System. Co – Operative Societies and Constitutional and Non-constitutional Bodies. Human Rights/values – Meaning and Definitions, Legislative Specific Themes in Human Rights and Functions/ Roles of National Human Rights Commission of India. Human Rights (Amendment Act)2006.

Module-5 Professional / Engineering Ethics 3 hours

Professional / Engineering Ethics

- Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India) : Profession, Professionalism, Professional Responsibility. Clash of Ethics, Conflicts of Interest.

Responsibilities in Engineering



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- Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights),
- Risks, Safety and liability in Engineering. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Course Outcomes:

On completion of this course, students will be able to,

21. Have general knowledge and legal literacy about Indian Constitution and there by it helps to take up competitive examinations & to manage/face complex societal issues in society.
22. Understand state and central policies(Union and State Excutive), fundamental Rights & their duties.
23. Understand Electoral Process, Amendments and special provisions in Constitution.
24. Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, with Human Rights and NHRC.
25. Understand Engineering & Professional ethics and responsibilities of Engineers.

Question paper pattern for SEE and CIE.

- The SEE question paper will be set for 30 marks and the pattern of the question paper will be objective type (MCQ).
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Reference Books:

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14. M.V.Pylee, An Introduction to Constitution of India, Vikas Publishing, 2002.
15. Latest Publications of NHRC – Indian Institute of Human Rights, New Delhi.



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B.E. Mechanical Engineering

V SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week			Examination				Credits
			Lecture	Tutorial	Practical	Duration (Hours)	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15ME51	Management and Engineering Economics	3	2	0	03	80	20	100	4
2	15ME52	Dynamics of Machinery	3	2	0	03	80	20	100	4
3	15ME53	Turbo Machines	3	2	0	03	80	20	100	4
4	15ME54	Design of Machine Elements - I	3	2	0	03	80	20	100	4
5	15ME55X	Professional Elective-I	3	0	0	03	80	20	100	3
6	15ME56X	Open Elective-I	3	0	0	03	80	20	100	3
7	15MEL57	Fluid Mechanics & Machinery Lab	1	0	2	03	80	20	100	2
8	15MEL58	Energy Lab	1	0	2	03	80	20	100	2
TOTAL			21	06	04		640	160	800	26

Professional Elective-I		Open Elective-I	
15ME551	Refrigeration and Air-conditioning	15ME561	Optimization Techniques
15ME552	Theory of Elasticity	15ME562	Energy and Environment
15ME553	Human Resource Management	15ME563	Automation and Robotics
15ME554	Non Traditional Machining	15ME564	Project Managemet

- 1. Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.
- 2. Professional Elective:** Elective relevant to chosen specialization/ branch
- 3. OpenElective:** Electives from other technical and/or emerging subject areas.



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MANAGEMENT AND ENGINEERING ECONOMICS

Course	Code	Credits	L-T-P	Assessment		Exam Duration
				SEE	CIA	
Management And Engineering Economics	15ME51	04	3-2-0	80	20	3Hrs

MODULE – 1

Management: Introduction - Meaning - nature and characteristics of Management, Scope and Functional areas of management - Management as science, art of profession - Management & Administration - Roles of Management, Levels of Management, Development of Management Thought- early management approaches – Modern management approaches.

Planning: Nature, importance and purpose of planning process Objectives -Types of plans (Meaning Only) - Decision making Importance of planning - steps in planning & planning premises - Hierarchy of plans. **10 Hours**

MODULE - 2

Organizing And Staffing: Nature and purpose of organization Principles of organization - Types of organization - Departmentation Committees-Centralization Vs Decentralization of authority and responsibility - Span of control - MBO and MBE (Meaning Only) Nature and importance of staffing--:Process of Selection & Recruitment (in brief).

Directing & Controlling: Meaning and nature of directing Leadership styles, Motivation Theories, Communication - Meaning and importance - coordination, meaning and importance and Techniques of Co Ordination. Meaning and steps in controlling - Essentials of a sound control system - Methods of establishing control (in brief) **10 Hours**

MODULE -3

Introduction: Engineering and economics, Problem solving and decision making, Laws of demand and supply, Difference between Microeconomics & Macroeconomics, equilibrium between demand & supply, elasticity of demand, price elasticity, income elasticity.

Law of Returns, Interest and interest factors, simple and compound interest, Cash flow diagrams, personal loans and EMI payment calculation with flexible interest rates, Discussion and problems **10 Hours**

MODULE -4

Present, future and annual worth and rate of returns: Basic present worth comparisons, Present worth-equivalence, Assets with unequal lives and infinite lives, future worth comparisons, payback comparisons, Equivalent annual worth comparisons, situations for annual worth comparisons.

Asset life, Rate of return, minimum acceptable rate of return, IRR anomalies and misconceptions, Cost of capital, comparisons of all present future and annual worth with IRR, product costing, Discussions and problems **10 Hours**

MODULE -5

Costing and depreciation: Components of costs, estimation of selling price, marginal cost, first cost, all kinds of overheads, indirect cost estimation with depreciation, mensuration and estimation of material cost, cost estimation of mechanical process, idling time.

Product costing (approaches to product costing), causes of depreciation, methods of computing depreciation charges, straight line method, declining balance method, sum of years method, sinking fund method, service output methods, taxation concepts, personal income taxes and corporate taxes, Discussions and problems. **10 Hours**

Course outcomes

On completion of this subject students will be able to

1. Understand needs, functions, roles, scope and evolution of Management
2. Understand importance, purpose of Planning and hierarchy of planning and also analyze its types
3. Discuss Decision making, Organizing, Staffing, Directing and Controlling
4. Select the best economic model from various available alternatives
5. Understand various interest rate methods and implement the suitable one.
6. Estimate various depreciation values of commodities
7. Prepare the project reports effectively.

TEXT BOOKS

1. Principles of Management by Tripathy and Reddy
2. Mechanical estimation and costing, T.R. Banga & S.C. Sharma, 17th edition 2015
3. Engineering Economy, Riggs J.L. McGraw Hill, 2002
4. Engineering Economy, Thuesen H.G. PHI, 2002

REFERENCE BOOKS

1. Management Fundamentals- Concepts, Application, Skill Development - RobersLusier - Thomson
2. Basics of Engineering Economy, Leland Blank & Anthony Tarquin, McGraw Hill Publication (India) Private Limited
3. Engineering Economics, R.Paneerselvam, PHI publication
4. Fundamentals of Management: Essential Concepts and Applications, Pearson Education, Robbins S.P. and Decenzo David A.
5. Economics: Principles of Economics, N Gregory Mankiw, Cengage Learning
6. Modern Economic Theory, By Dr. K. K. Dewett & M. H. Navalur, S. Chand Publications



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HUMAN RESOURCE MANAGEMENT
(Professional Elective-I)

Course	Code	Credits	L-T-P	Assessment		Exam Duration
				SEE	CIA	
Human Resource Management	15ME553	03	3-0-0	80	20	3Hrs

Course Objectives:

1. To develop a meaningful understanding of HRM theory, functions and practices.
2. To apply HRM concepts and skills across various types of organizations.

Module – 1

Human Resource Management

Introduction, meaning, nature, scope of HRM. Importance and Evolution of the concept of HRM. Major functions of HRM, Principles of HRM, Organization of Personnel department, Role of HR Manager.

Job Analysis: Meaning, process of job analysis, methods of collecting job analysis data, Job Description and Specification, Role Analysis.

08 hours

Module – 2

Human Resource Planning: Objectives, Importance and process of Human Resource planning, Effective HRP

Recruitment: Definition, Constraints and Challenges, Sources and Methods of Recruitment, New Approaches to recruitment.

Selection: Definition and Process of Selection.

08 hours

Module – 3

Placement: Meaning, Induction/Orientation, Internal Mobility, Transfer, Promotion, Demotion and Employee Separation.

Training and development: Training v/s development, Training v/s Education, Systematic Approach to Training, Training Methods, Executive Development, Methods and Development of Management Development, Career and Succession Planning.

08 hours

Module – 4

Performance Appraisal: Concept of Performance Appraisal, the Performance Appraisal process, Methods of Performance Appraisal, Essential Characteristic of an Effective Appraisal System.

Compensation: Objectives of Compensation Planning, Job Evaluation, Compensation Pay Structure in India, Wage and Salary Administration, Factors Influencing Compensation Levels, Executive Compensation.

09 hours



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Module – 5

Employee Welfare: Introduction, Types of Welfare Facilities and Statutory Provisions.

Employee Grievances: Employee Grievance procedure, Grievances management in Indian Industry.

Discipline: Meaning, approaches to discipline, essential of a good disciplinary system, managing difficult employees.

09 hours

Course Outcomes

On completion of the course the student will be able to

1. Understand the importance, functions and principles Human Resource Management and process of Job analysis
2. Summarize the objectives of Human Resource planning, Recruitment and selection process
3. Understand the process involved in Placement, Training and development activities.
4. Understand the characteristics of an effective appraisal system and compensation planning.
5. Understand the issues related to employee welfare, grievances and discipline.

TEXTBOOKS

1. Human Resource Management- Rao V.S.P, Excel books, 2010
2. Human Resource Management- Cynthia D. Fisher, 3/e, AIPD, Chennai
3. Human Resource Management: A South Asian Perspective, Snell, Bohlander&Vohra, 16th Rep., Cengage Learning, 2012
4. Human Resource Management- Lawrence S Kleeman, Biztantra, 2012
5. Human Resource Management- Aswathappa K, HPH

REFERENCE BOOKS

1. Human Resource Management- John M. Ivancevich, 10/e, McGraw Hill.
2. Human Resource Management in Practice- Srinivas R. Kandulla, PHI
3. Human Resource Management- Luis R Gomez-Mejia, David B. Balkin, Robert L Cardy, 6/e, PHI, 2010



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ENERGY AND ENVIRONMENT
(OPEN ELECTIVE - I)

Course	Code	Credits	L-T-P	Assessment		Exam Duration
				SEE	CIA	
Energy And Environment	15ME562	03	3-0-0	80	20	3Hrs

Course Objectives

1. Understand energy scenario, energy sources and their utilization
2. Learn about methods of energy storage, energy management and economic analysis
3. Have proper awareness about environment and eco system.
4. Understand the environment pollution along with social issues and acts.

Module – I

Basic Introduction to Energy: Energy and power, forms of energy, primary energy sources, energy flows, world energy production and consumption, Key energy trends in India: Demand, Electricity, Access to modern energy, Energy production and trade, Factors affecting India's energy development: Economy and demographics Policy and institutional framework, Energy prices and affordability, Social and environmental aspects, Investment. **8 Hours**

Module – II

Energy storage systems: Thermal energy storage methods, Energy saving, Thermal energy storage systems

Energy Management: Principles of Energy Management, Energy demand estimation, Energy pricing

Energy Audit: Purpose, Methodology with respect to process Industries, Characteristic method employed in Certain Energy Intensive Industries

Economic Analysis: Scope, Characterization of an Investment Project **10 Hours**

Module – III

Environment: Introduction, Multidisciplinary nature of environmental studies- Definition, scope and importance, Need for public awareness.

Ecosystem: Concept, Energy flow, Structure and function of an ecosystem. Food chains, food webs and ecological pyramids, Forest ecosystem, Grassland ecosystem, Desert ecosystem and Aquatic ecosystems, Ecological succession. **8 Hours**

Module – IV

Environmental Pollution: Definition, Cause, effects and control measures of - Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution and Nuclear hazards, Solid waste Management, Disaster management Role of an individual in prevention of pollution, Pollution case studies. **8 Hours**

Module – V

Social Issues and the Environment: Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies. Wasteland reclamation, Consumerism and waste products, Environment Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act, Issues involved in enforcement of environmental legislation. **8 Hours**

Course Outcomes

At the end of the course, the student will be able to:

1. Summarize the basic concepts of energy, its distribution and general Scenario.
2. Explain different energy storage systems, energy management, audit and economic analysis.
3. Summarize the environment eco system and its need for awareness.
4. Identify the various types of environment pollution and their effects.
5. Discuss the social issues of the environment with associated acts.

TEXT BOOKS:

1. Textbook for Environmental Studies For Undergraduate Courses of all Branches of Higher Education by University grant commission and Bharathi Vidyapeeth Institute of environment education and Research, Pune
2. De, B. K., Energy Management audit & Conservation, 2nd Edition, Vrinda Publication, 2010.

REFERENCE BOOKS:

1. Turner, W. C., Doty, S. and Truner, W. C., Energy Management Hand book, 7th edition, Fairmont Press, 2009.
2. Murphy, W. R., Energy Management, Elsevier, 2007.
3. Smith, C. B., Energy Management Principles, Pergamum, 2007
4. Environmental pollution control Engineering by C S rao, New Age International, 2006, reprint 2015, 2nd edition
5. Environmental studies, by Benny Joseph, Tata McGraw Hill, 2008, 2nd edition.

E- Learning

- India Energy Outlook 2015 (www.iewa.org/.../IndiaEnergyOutlook_WEO2015.pdf)
- Open courseware



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PROJECT MANAGEMENT
(OPEN ELECTIVE – I)

Course	Code	Credits	L-T-P	Assessment		Exam Duration
				SEE	CIA	
Project Management	15ME564	03	3-0-0	80	20	3Hrs

MODULE – 1

Introduction: Definition of project, characteristics of projects, understand projects, types of projects, scalability of project tools, project roles

Project Selection And Prioritization – Strategic planning process, Strategic analysis, strategic objectives, portfolio alignment – identifying potential projects, methods of selecting projects, financial mode / scoring models to select projects, prioritizing projects, securing and negotiating projects. **08 Hours**

MODULE – 2

Planning Projects: Defining the project scope, Project scope checklist, Project priorities, Work Breakdown Structure (WBS), Integrating WBS with organisation, coding the WBS for the information system.

Scheduling Projects: Purpose of a project schedule, historical development, how project schedules are limited and created, develop project schedules, uncertainty in project schedules, Gantt chart. **08 Hours**

MODULE – 3

Resourcing Projects: Abilities needed when resourcing projects, estimate resource needs, creating staffing management plan, project team composition issues, Budgeting Projects: Cost planning, cost estimating, cost budgeting, establishing cost control.

Project Risk Planning: Risk Management Planning, risk identification, risk analysis, risk response planning, Project Quality Planning and Project Kickoff: Development of quality concepts, project quality management plan, project quality tools, kickoff project, baseline and communicate project management plan, using Microsoft Project for project baselines. **08 Hours**

MODULE – 4

Performing Projects: Project supply chain management: - Plan purchasing and acquisitions, plan contracting, contract types, project partnering and collaborations, project supply chain management.



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Project Progress and Results: Project Balanced Scorecard Approach, Internal project, customer, financial issues, Finishing the project: Terminate project early, finish projects on time, secure customer feedback and approval, knowledge management, perform administrative and contract closure.

08 Hours

MODULE - 5

Network Analysis

Introduction, network construction - rules, Fulkerson's rule for numbering the events, AON and AOA diagrams; Critical path method (CPM) to find the expected completion time of a project, floats; PERT for finding expected duration of an activity and project, determining the probability of completing a project, predicting the completion time of project; crashing of simple projects.

10 Hours

Course Outcomes

On completion of the course the student will be able to

1. Understand the selection, prioritization and initiation of individual projects and strategic role of project management.
2. Understand the work breakdown structure by integrating it with organization.
3. Understand the scheduling and uncertainty in projects.
4. Students will be able to understand risk management planning using project quality tools.
5. Understand the activities like purchasing, acquisitions, contracting, partnering and collaborations related to performing projects.
6. Determine project progress and results through balanced scorecard approach
7. Draw the network diagram to calculate the duration of the project and reduce it using crashing.

TEXT BOOKS

1. Project Management, Timothy J Kloppenborg, Cengage Learning, Edition 2009.
2. Project Management, A systems approach to planning scheduling and controlling by Harold Kerzner, CBS publication.
3. Project Management by S Choudhury, Mc Graw Hill Education (India) Pvt. Ltd. New Delhi, 2016

REFERENCE BOOKS

1. Project Management, Pennington Lawrence, Mc Graw hill
2. Project Management, A Moder Joseph and Phillips New York Van Nostrand, Reinhold.
3. Project Management, Bhavesh M. Patal, Vikas publishing House,



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B.E Mechatronics

ENVIRONMENTAL STUDIES

Laboratory Code	17CIV18/17CIV28	IA Marks	20
Number of Lecture Hours/Week	02	Exam Marks	30
Total Number of Lecture Hours	25	Exam Marks	02

Course Objectives:

- To identify the major challenges in environmental issues and evaluate possible solutions.
- Develop analytical skills, critical thinking and demonstrate socio-economic skills for sustainable development.
- To analyze an overall impact of specific issues and develop environmental management plan.

Module -1 (05 – Hours)

Introduction Environment – Components of Environment Ecosystem: Types & Structure of Ecosystem, Balanced ecosystem Human Activities – Food, Shelter, And Economic & Social Security. Impacts of Agriculture & Housing Impacts of Industry, Mining & Transportation Environmental Impact Assessment, Sustainable Development

Module -2 (05 – Hours)

Natural Resources, Water resources – Availability & Quality aspects, Water borne diseases & water induced diseases, Fluoride problem in drinking water Mineral resources, Forest Wealth Material Cycles – Carbon Cycle, Nitrogen Cycle & Sulphur Cycle. Energy – Different types of energy, Conventional sources & Non Conventional sources of energy Solar energy, Hydro electric energy, Wind Energy, Nuclear energy, Biomass & Biogas Fossil Fuels, Hydrogen as an alternative energy.

Module -3 (05 – Hours)

Environmental Pollution – Water Pollution, Noise pollution, Land Pollution, Public Health Aspects. Global Environmental Issues: Population Growth, Urbanization, Land Management, Water & Waste Water Management.

Module -4 (05 – Hours)

Air Pollution & Automobile Pollution: Definition, Effects – Global Warming, Acid rain & Ozone layer depletion, controlling measures. Solid Waste Management, E – Waste Management & Biomedical Waste Management – Sources, Characteristics & Disposal methods.

Module -5 (05 – Hours)

Introduction to GIS & Remote sensing, Applications of GIS & Remote Sensing in Environmental Engineering Practices. Environmental Acts & Regulations, Role of government, Legal aspects, Role of Nongovernmental Organizations (NGOs) , Environmental Education & Women Education.

Course Outcome:

Students will be able to,

- Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,



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- Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment,
- Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components
- Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues

Text Books:

- Benny Joseph (2005), "Environmental Studies", Tata McGraw – Hill Publishing Company Limited.
- R.J.Ranjit Daniels and Jagadish Krishnaswamy, (2009), "Environmental Studies", Wiley India Private Ltd., New Delhi.
- R Rajagopalan, "Environmental Studies – From Crisis to Cure", Oxford University Press, 2005,
- Aloka Debi, "Environmental Science and Engineering", Universities Press (India) Pvt. Ltd. 2012.

Reference Books:

- Raman Sivakumar, "Principals of Environmental Science and Engineering", Second Edition, Cengage learning Singapore, 2005
- P. Meenakshi, "Elements of Environmental Science and Engineering", Prentice Hall of India Private Limited, New Delhi, 2006
- S.M. Prakash, "Environmental Studies", Elite Publishers Mangalore, 2007
- Erach Bharucha, "Text Book of Environmental Studies", for UGC, University press, 2005
- G.Tyler Miller Jr., "Environmental Science – working with the Earth", Tenth Edition, Thomson Brooks /Cole, 2004
- G.Tyler Miller Jr., "Environmental Science – working with the Earth", Eleventh Edition, Thomson Brooks /Cole, 2006
- Dr.Pratiba Sing, Dr.AnoopSingh and Dr.Piyush Malaviya, "Text Book of Environmental and Ecology", Acme Learning Pvt. Ltd. New Delhi.



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CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND HUMAN RIGHTS - 2017 SCHEME
VTU CBCS 17CPH39

Module-1 Introduction and Basic Information about Indian Constitution 3 hours

Introduction and Basic Information about Indian Constitution

- The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, the making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) & it's present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-2 Union Executive and State Executive 3 hours

Union Executive and State Executive

- Parliamentary System, Federal System, Centre-State Relations.
- Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Article 370,371,371J) for some States. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-3 Elections, Amendments and Emergency Provisions 3 hours

Elections, Amendments and Emergency Provisions

- Elections, Electoral Process, and Election Commission of India, Election Laws.
- Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, 75, 86, and 91,94,95,100,101,118 and some important Case Studies. Recent Amendments with explanation. Important Judgements with Explanation and its impact on society (from the list of Supreme Court Judgements). Emergency Provisions, types of Emergencies and it's consequences. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Module-4 Constitutional Provisions/ Local Administration/ Human Rights 3 hours

Constitutional Provisions/ Local Administration/ Human Rights

- Special Constitutional Provisions for SC & ST, OBC, Special Provision for Women, Children & Backward Classes. Local Administration: Powers and functions of Municipalities and Panchayats System. Co – Operative Societies and Constitutional and Non-constitutional Bodies. Human Rights/values – Meaning and Definitions, Legislative Specific Themes in Human Rights and Functions/ Roles of National Human Rights Commission of India. Human Rights (Amendment Act)2006.

Module-5 Professional / Engineering Ethics 3 hours

Professional / Engineering Ethics

- Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India) : Profession, Professionalism, Professional Responsibility. Clash of Ethics, Conflicts of Interest.



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Responsibilities in Engineering

- Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights),
- Risks, Safety and liability in Engineering. (Duration: 03 Hours & RBT Levels: L1, L2 & L3)

Course Outcomes:

On completion of this course, students will be able to,

1. Have general knowledge and legal literacy about Indian Constitution and there by it helps to take up competitive examinations & to manage/face complex societal issues in society.
2. Understand state and central policies(Union and State Executive), fundamental Rights & their duties.
3. Understand Electoral Process, Amendments and special provisions in Constitution.
4. Understand powers and functions of Municipalities, Panchayats and Co-operative Societies, with Human Rights and NHRC.
5. Understand Engineering & Professional ethics and responsibilities of Engineers.

Question paper pattern for SEE and CIE.

- The SEE question paper will be set for 30 marks and the pattern of the question paper will be objective type (MCQ).
- For the award of 20 CIE marks, refer the University Scheme and Syllabus book.

Text Books:

1. Durga Das Basu (DD Basu): Introduction to the Constitution on India, (Students Edition.) Prentice -Hall EEE, 19th / 20th Edn., (Latest Edition) or 2008.
2. Shubham Singles, Charles E. Haries, and Et al: Constitution of India and Professional Ethics by Cengage Learning India Private Limited, Latest Edition – 2018.

Reference Books:

1. M.Govindarajan, S.Natarajan, V.S.Senthilkumar, Engineering Ethics, Prentice -Hall of India Pvt. Ltd. New Delhi, 2004
2. M.V.Pylee, An Introduction to Constitution of India, Vikas Publishing, 2002.
3. Latest Publications of NHRC – Indian Institute of Human Rights, New Delhi.



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Curriculum Highlighting Cross Cutting Issues - PG

MBA

SCHEME OF TEACHING AND EXAMINATION
 MASTER OF BUSINESS ADMINISTRATION

I SEMESTER

Subject Code	Title of the Subject	Category	Teaching hours / week			Duration of Exam (Hours)	Marks for		Total Marks	Credits
			Lecture	Practical / Field Work / Assignment *	Total		IA	Exam		
16MBA11	Management & Organizational Behaviour	Core Course	3	2	5	3	20	80	100	4
16MBA12	Managerial Economics	Core Course	3	2	5	3	20	80	100	4
16MBA13	Accounting for Managers	Core Course	3	2	5	3	20	80	100	4
16MBA14	Quantitative Methods	Core Course	3	2	5	3	20	80	100	4
16MBA15	Marketing Management	Core Course	3	2	5	3	20	80	100	4
16MBA16	Managerial Communications	Core Course	3	2	5	3	20	80	100	4
Total			18	12	30		120	480	600	24

* Practical / Field Work / Assignment is a part of contact hours for the faculty and must be considered in the workload.

SEMESTER I

MANAGEMENT & ORGANIZATIONAL BEHAVIOUR

Subject Code : 16MBA11 IA Marks : 20

No. of Lecture Hours / Week: 03 Exam Hours : 03

Number of Lecture Hours : 56 Exam Marks : 80

Practical Component : 02 Hours / Week

Course Objectives:

- To make students understand fundamental concepts and principles of management, including the basic roles, skills, and functions of management
- To make students knowledgeable of historical development, theoretical aspects and practice applications of managerial process



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- To understand the basic concepts and theories underlying individual behavior besides developing better insights into one's own self
- To make students aware of Individual behavior in groups, dynamics of groups and team building besides developing a better awareness of how they can be better facilitators for building effective teams as leaders themselves

Course Outcomes:

At the end of the course students are able to:

- _ Comprehend & correlate all the management activities which are happening around them with fundamental concepts and principles of management.
- _ Get an overview of management, theory of management and practical applications of the same.
- _ Effectively use their individual skill to work in groups to achieve organizational goals and ability to lead groups/teams.
- _ Demonstrate their acumen in applying managerial and behavioral concept in real world/situation.

Part A - Principles of Management

Unit 1: (8 Hours)

Introduction: Management: Introduction, Definition of management, Nature, Purpose and Functions, Levels and types of managers, managerial roles, skills for managers, evolution of management thought, Fayol's fourteen principles of management, Recent trends in management.

Unit 2: (12 Hours)

Planning and Organizing:

Planning: Nature of Planning, Planning Process, Objectives, MBO, Strategies, level of strategies, policies, methods and programs, Planning Premises, Decision-making, Process of decision-making, Types of decisions, Techniques in decision-making.

Organizing: Organization structure, Formal and informal organizations, Principles of organizations-chain of command, span of control, delegation, decentralization, and empowerment. Functional, divisional, geographical, customer based and matrix organizations, team based structures, virtual organizations, boundary less organizations.

Unit 3: (5 Hours)



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Controlling: Controlling, importance of controlling, controlling process, types of control, factors influencing control effectiveness.

RECOMMENDED BOOKS

- Essentials of Management-Koontz, 8/e, McGraw Hill
- Management: Text and Cases-VSP Rao, Excel Books
- MGMT, An Innovative approach to teaching and learning Principles of Management, Chuck Williams, Cengage Publications, 2010
- Principles and practices of Management, Kiran Nerkar, Vilas Chopde, Dreamtech Press, 2011
- Management Theory & practice – Chandan J. S, Vikas Publishing House.
- Management Theory & Practice Text & Cases – Subba Rao P &Hima Bindu, Himalaya Publication.

REFERENCE BOOKS:

- Masters of Management Thought – MahanandCharati& M M Munshi, Sapna Book House, Bangalore, 2015.

Part B - Organizational Behaviour

Unit 4: (6 hours)

Introduction: Organizational Behaviour: Introduction, definition, historical development, fundamental principles of OB, contributing disciplines, challenges and opportunities.

Unit 5: (15 Hours)

Foundations of Individual Behaviour: Individual behaviour:Foundations of individual behaviour.

Ability: Intellectual abilities, Physical ability, the role of disabilities.

Personality: Meaning, formation, determinants, traits of personality, big five and MBTI, personality attributes influencing OB.

Attitude: Formation, components of attitudes, relation between attitude and behaviour.

Perception: Process of perception, factors influencing perception, link between perception and individual decision-making.

Unit 6: (10 Hours)

Motivation: Meaning, theories of motivation-needs theory, two factor theory, Theory X and Y, application of motivational theories.



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Leadership: Meaning, styles of leadership, leadership theories, trait theory, behavioural theories, managerial grid, situational theories

Note: Related case studies to be discussed.

Practical Components:

- Studying organizational structures of any 10 companies and classifying them into different types of organizations which are studied in Unit 2 and justifying why such structures are chosen by those organizations.
- Preparing the leadership profiles of any 5 business leaders and studying their leadership qualities and behaviours with respects to the trait, behavioural and contingency theories studied.
- Identifying any five job profiles and listing the various types, abilities required for those jobs and also the personality traits/attributes required for the jobs identified.

Note: Faculty can either identify the organizations/ leaders/jobs or students can be allowed to choose the same.

RECOMMENDED BOOKS:

- Organizational behaviour, Stephen P Robbins, Timothy A. Judge, Neharika Vohra, 14th Edition, Pearson, 2012.
- Introduction to Organisational Behaviour – Michael Butler, Jaico Publishing House,
- Organization Behaviour – Ashwathappa, Himalaya Publication House
- ORGB - Nelson, Quick, Khanelwal, 2/e, Cengage Learning, 2012.
- Organizational Behaviour - Anada Das Gupta, Biztantra, 2011.
- Organizational Behaviour: A modern approach - Arun Kumar and Meenakshi, Vikas Publishing House, 2011.
- Organizational Behaviour – Rao V. S. P, Excel BOOKS, 2009.

REFERENCE BOOKS:

- Organizational Behaviour - Fred Luthans, 12/e, McGraw Hill International, 2011.
- Management and Organizational Behaviour - Laurie J Mullins, Pearson education



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HUMAN RESOURCE MANAGEMENT

Subject Code : 16MBA21 IA Marks : 20

No. of Lecture Hours / Week : 03 Exam Hours : 03

Total Number of Lecture Hours : 56 Exam Marks : 80

Practical Component : 02 Hours / Week

Objectives:

- To understand the HRM concepts and theory
- To obtain an overview of various HRM functions and practices
- To gain an insight into the various statutory provisions

Course outcome:

At the end of the course students will be able to:

- _ Synthesize information regarding the effectiveness of recruiting methods & selection procedures
- _ Identify the various training methods and design a training program
- _ Design a job description and job specification for various levels of employees.
- _ List out the regulations governing employee benefit practices.

Unit 1: (8 hours)

Human Resource Management:

Introduction, meaning, nature, scope of HRM - Importance and Evolution of the concept of HRM - Major functions of HRM - Principles of HRM

Unit 2: (10 hours)

Job Analysis: Meaning, process of Job Analysis, methods of collecting job analysis data, Job Description and Job Specification, Role Analysis.

Human Resource Planning: Objectives, Importance and process of Human Resource Planning, Effective HRP.

Unit 3: (10 hours)

Recruitment: Definition, Constraints and Challenges, Sources and Methods of Recruitment,



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New Approaches to recruitment.

Selection: Definition and Process of Selection.

Placement: Meaning, Induction/Orientation, Internal Mobility, Transfer, Promotion, Demotion and Employee Separation.

Unit 4: (8 hours)

Training and development: Training v/s development, Training v/s Education, Systematic Approach to Training, Training Methods.

Unit 5: (10 hours)

Performance Appraisal: Concept of Performance Appraisal, the Performance Appraisal Process, Methods of Performance Appraisal

Compensation: Objectives of Compensation Planning, Job Evaluation, Compensation Pay Structure in India.

Unit 6: (10 hours)

Employee Welfare: Introduction, Types of Welfare Facilities and Statutory Provisions.

Employee Grievances: Employee Grievance procedure, Grievances Management in Indian Industry.

Discipline: Meaning, approaches to discipline, essential of a good disciplinary system, managing difficult employees.

Practical Components:

- Give a case and ask the students to prepare the recruitment advertisement for a newspaper.
- Expose students to standard selection tests followed in various sectors.
- Exploring training and development practices.
- Exploring performance appraisal practices in various sectors.
- Exploring employee separation practices.
- Give a job analysis case and ask the students to prepare job description and job specification.
- Ask the students to prepare an appointment letter for the post of office manager of a company known to you.



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RECOMMENDED BOOKS:

- Human Resources Management: A South Asian Perspective, Denski/Griffin/Sarkar- Cengage Learning, 2012.
- Human Resource Management – Rao V. S. P, Excel BOOKS, 2010
- Human Resource Management - Lawrence S. Kleeman, Biztantra , 2012.
- Human Resource Management – Dr. T.P RenukaMurthy HPH

REFERENCE BOOKS:

- Human Resource Management - John M. Ivancevich, 10/e, McGraw Hill.
- Human Resource Management in practice - Srinivas R. Kandula, PHI, 2009
- Managing Human Resources - Luis R Gomez-Mejia, David B. Balkin, Robert L. Cardy, 6/e, PHI, 2010.
- Human Resource Management & Industrial relations, P.Subba Rao, Himalaya Publishing House, Mumbai.
- Human Resource Management – Aswathappa K HPH



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BUSINESS LAW AND POLICY

Subject Code : 16MBA24 IA Marks : 20

No. of Lecture Hours / Week : 03 Exam Hours : 03

Total Number of Lecture Hours : 56 Exam Marks : 80

Practical Component : 02 Hours / Week

Objectives:

- To understand the legal environment of business and complexities faced by businesses.
- To learn various legal provisions under Indian Companies Act.
- To understand the importance of Corporate Social Responsibility

Course Outcome:

At the end of the course students will be able to:

- _ Demonstrate awareness towards legal and regulatory context of business
- _ Recognize and appropriately respond to ethical, legal and strategic concerns relating to human resource and organizational management.
- _ Gain insights into various acts and understand the significance of corporate governance

Unit 1 (10 Hours)

Indian Contract Act, 1872-meaning of contract, agreement, essential elements of a valid contract. Law of agency-meaning, creation and termination of agency. Bailment and Pledgemeaning rights and duties of bailor and bailee.

Unit 2: (10 Hours)

Companies Act 1956- Meaning and features, kinds of companies, registration and incorporation, Memorandum of Association,& Articles of Association, Prospectus. Winding up of companies

Unit 3: (10 Hours)

Miscellaneous Acts-Meaning, scope and objectives of: (a) Intellectual Property Law (relating to patents, copyrights and trademarks): (b) Consumer Protection Act 1986 and (c) **Environment Protection Act 1986**,

Unit 4: (10 Hours)

Indian Partnership Act 1932 - THE NATURE OF PARTNERSHIP- Introduction of a partner- Admission of the partner -Retirement of a partner- Expulsion of a partner - Insolvency a partner - Liability of estate of deceased partner

Unit 5: (8 Hours)

Corporate Governance: Introduction, Definition, Issues in corporate governance, relevance of corporate governance, need and importance of corporate governance, benefits of good corporate governance. **Obligation to society**, investors, employees and customers, managerial obligation, Indian cases

Unit 6: (8 Hours)

Corporate Social Responsibility: Types and nature of social responsibilities, CSR principles and strategies, **models of CSR, Best practices of CSR, Need of CSR**, Arguments for and against CSR, CSR in Indian perspective, Indian examples. Latest trends in CSR



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Practical Components:

- Students are expected to study any five CSR initiatives by Indian organizations and submit a report for the same.
- A group assignment on the relationship between Business, Law and Society in Indian context
- Case studies/Role plays related ethical issues in business with respect to Indian context.
- Students to collect, analyse and discuss MA, AA & Prospectus of a company.
- Organize a programme on consumer awareness and consumer rights.

RECOMMENDED BOOKS:

- Business, Government, and Society: A Managerial Perspective, Text and Cases – John F. Steiner, 12/e, McGraw-Hill, 2011.
- Business and Government – Francis Cherunilam, HPH.
- Corporate Governance: principles, policies and practices – Fernando A. C, 2/e, Pearson, 2011.
- Business Ethics and Corporate Governance - Ghosh B. N, Tata McGraw-Hill, 2012.
- Business Law for Managers, Goel P. K, Biztantra, 2012.
- Corporate Social Responsibility: A Study of CSR Practices in Indian Industry, Baxi C. V & Rupamanjari Sinha Ray, Vikas Publishing House, 2012.

REFERENCE BOOKS:

- Business and Society - Lawrence and Weber, 12/e, Tata McGraw- Hill, 2010.
- Business Ethics - Bajaj P. S & Raj Agarwal, Biztantra, 2012.
- Corporate Governance - Keshoo Prasad, 2/e, PHI.
- Corporate Governance, Ethics and social responsibility - Balachandran V, & Chandrashekharan V, 2/e, PHI, 2011.
- Corporate Governance – Machiraju H. R, HPH.
- Business Ethics and Corporate Governance – Prabakaran S, Excel BOOKS.
- Corporate Governance – Badi N. V, Vrinda Publications, 2012



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CONFLICT AND NEGOTIATION MANAGEMENT

Subject Code : 16MBA HR306 IA Marks : 20

No. of Lecture Hours / Week : 03 Exam Hours : 03

Total Number of Lecture Hours : 56 Exam Marks : 80

Practical Component : 02 Hours / Week

Course Objectives:

- To understand the nature of various dimensions of conflict
- To learn various strategies and techniques to manage conflicts
- To understand the importance and role of negotiation in conflict resolution
- To understand the importance of cross-cultural and gender dimensions of negotiation

Course Outcomes:

The students will be able to

- _ Gain insights of various dimensions of conflicts in an organization
- _ Know the various strategies and techniques of managing conflicts.
- _ Learn the process of negotiation and its relevance in conflict resolution.

Unit 1: (8 Hours)

Introduction: Understanding conflict, components, perspectives of conflict, types of conflict, models of conflict – Process and Structural Models, functional & dysfunctional conflict, relationship between conflict and performance in team, levels of conflict – intrapersonal, interpersonal, group & organizational conflicts, sources of conflict - intrapersonal, interpersonal, group & organizational sources.

Unit2: (8 Hours)

Conflict Management Design: Nature of conflict Management, contingency approach, conflict management process, the conflict domain, conflict trends, conflict distribution, conflict mapping and tracking.

Unit 3: (10Hours)

Managing Conflict: Managing interpersonal conflict: Thomas conflict resolution approach, behavioral style and conflict handling, the CosierSchank model of conflict resolution, collaboration & conflict resolution, dealing with difficult subordinates, boss & colleagues, 1 to 1 dispute resolution.

Managing team & organization conflict: techniques to resolve team conflict, strategies to resolve organizational conflict, effective listening and dialogue skills, humor and conflict resolution, negotiation as a tool for conflict resolution.

Unit 4: (8 Hours)

Conflict resolution and Cost: Conflict resolution models, framework model, classical ideas, new developments in conflict resolution. Environmental conflict resolution, gender and conflict resolution. Assessing the cost of workplace conflict.

Unit 5: (14 Hours)

Negotiations/Negotiation strategies -Types of Negotiations, negotiation process, factors for successful negotiations, essential skills for negotiation, tricks used in negotiation process, psychological advantage of negotiations, Techniques of negotiation, issues in negotiations.



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Negotiation strategies: Strategy and tactics for distributive bargaining, strategy and tactics for integrative negotiation, negotiation strategy and planning. Finding and using negotiation power, sources of power, Ethics in negotiation.

Unit 6: (8Hours)

Managing difficult negotiations: Third party approaches: Third party interventions, formal intervention methods – Arbitration, Mediation and Process Consultation, Informal intervention methods, best practices in negotiation.

Practical Components

- Survey the conflict resolution techniques adopted by individuals based on individual personality types.
- Dividing students into groups and give a scenario to negotiate and reach conclusion
- Ask students to identify three unconscious factors that may affect their negotiation effectiveness and ask them to explain why or how that phenomenon may occur.
- Management games like two dollar game, cross the line games can be played in the class to develop negotiation skills among the students.

RECOMMENDED BOOKS:

- Corporate Conflict Management - Concepts and Skills, Eirene Leela Rout, Nelson Omiko, Prentice India, 2007.
- Negotiations, Roy J. Lewicki, David M. Saunders, Bruce Barry, 5/e, Mc Graw Hill, 2005
- Contemporary Conflict Resolution, Oliver Ramsbotham, Hugh Miall, Tom Woodhouse, 3rd edition, Polity publishers, 2011.
- Handling Conflict and Negotiation, Manchester Open Learning, illustrated edition, Kogan Page, 1993.

REFERENCE BOOKS:

- Managing conflict and negotiation, B.D. Singh, 1st edition, Excel books, 2008.
- Conflict Management: Practical guide to develop negotiation strategies, Barbara A Budjac Corvette, Pearson Prentice Hall, 2006.
- Managing Conflict in Organizations, M. Afzalur Rahim, 4th Edition, Transaction Publishers, 2011.



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MCA

SCHEME OF TEACHING AND EXAMINATION MASTER OF COMPUTER APPLICATIONS

IV SEMESTER

S. No	Subject Code	Title	Teaching Hrs /		Duration	Examination		
			Theory	Practical		Mar		
						IA	Exam	Total
1	13MCA41	Analysis & Design of	04	-	03	50	100	150
2	13MCA42	Advanced Java Programming	04	-	03	50	100	150
3	13MCA43	Advanced Web Programming	04	-	03	50	100	150
4	13MCA44	Elective-2	04	-	03	50	100	150
5	13MCA45	Elective-3	04	-	03	50	100	150
6	13MCA46	Algorithms Lab	-	03	03	50	50	100
7	13MCA47	Advanced Java Lab	-	03	03	50	50	100
8	13MCA48	Mini Project-I	-	03	03	50	50	100
TOTAL			20	09		400	650	1050

Elective-2		Elective 3	
13MCA441	Advanced Computer Networks	13MCA451	Cryptography & Network Security
13MCA442	Data Warehousing & Data Mining	13MCA452	Network Management
13MCA443	Mobile Computing and Wireless Communications	13MCA453	NOSQL
13MCA444	Software Testing and Practices	13MCA454	Software Architectures
13MCA445	Theory of Computation (FAFL)	13MCA455	Enterprise Resource Planning (ERP)
13MCA446	Digital Image Processing	13MCA456	Mobile Applications

Cryptography & Network Security

Subject Code: 13MCA451 I.A. Marks : 50

Hours/Week: 04 Exam Hours: 03

Total Hours: 52 Exam Marks : 100

Introduction 3 Hours

OSI Security Architecture, Security Attacks, Security Services, Security Mechanism, Model for Network Security.

Classical Encryption Technique 5 Hours

Symmetric Cipher Model, Substitution Techniques, Transposition Techniques.

Block Ciphers, Data Encryption Standard and Advanced Encryption Standard 8 Hours

Block Cipher Principles, The Data Encryption Standard, Block Cipher Design Principles and Modes of operation, Evaluation Criteria for AES, AES Cipher-Encryption and Decryption, Data Structure, Encryption Round.

Public Key Cryptography and Key Management 6 Hours



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Principles of Public Key Cryptosystem, RSA algorithm, Key management, Diffie Hellman Key exchange

Message Authentication and Hash Function 6 Hours

Authentication Requirement, Authentication Functions, Message Authentication Code, Hash Functions, Digital Signatures, Digital Signature Standard

Authentication Applications 5 Hours

Kerberos, X.509 Authentication Service

Electronic Mail Security 5 Hours

Pretty Good Privacy (PGP), S/MIME

IP Security 5 Hours

IP Security Overview; IP Security Architecture; Authentication Header; Encapsulating Security Payload; Combining Security Associations; Key Management.

Web Security 5 Hours

Web Security Considerations; Secure Socket layer (SSL) and Transport layer Security (TLS); Secure Electronic Transaction (SET)

System Security 4 Hours

Intruders, Intrusion Detection, Firewall Design Principles- Characteristics, Types of Firewall and Firewall Configuration.

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Text Books:

William Stallings, "Cryptography and NetworkSecurity – Principles and Practices", 4th Edition, Pearson Education, 2009. (Chapters: 1, 2.1-2.3, 3.1,3.2,3.5, 5.1,5.2, 6.2, 9.1,9.2, 10.1,10.2, 11.1-11.4, 13.1, 13.3, 14.1, 4.2, 15.1, 15.2, 16.1-16.6, 17.1-17.3, 18.1, 18.2, 20.1; Exclude the topic not mentioned in the syllabus)

Reference Book:

1.Behrouz A. Forouzan and DebdeepMukhopadhyay: "Cryptography and Network Security", 2nd Edition, Tata McGraw-Hill, 2010.

2.AtulKahate, "Cryptography and NetworkSecurity" 2nd Edition TMH.

1.3.1. Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum(2017-2018)

1)2nd Year / 3rd Semester

IntellectualPropertyProperty(16MCA351)



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III Semester		CREDIT BASED						
Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDITS
		Lecture	Practical / Assignment		CIE	SEE		
16MCA31	Computer Networks	4	--	3	20	80	100	4
16MCA32	Java Programming	4	--	3	20	80	100	4
16MCA33	Analysis and Design of Algorithms	4	--	3	20	80	100	4
16MCA34	Software Engineering	4	--	3	20	80	100	4
16MCA35	Elective 1	3	--	3	20	80	100	3
16MCA36	Computer Networks Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA37	Java Programming Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA38	Analysis and Design of Algorithms Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
Total		19	09	24	160	640	800	25

Elective- 1

16MCA351	Intellectual Property Rights
16MCA352	Enterprise Resource Planning(ERP)
16MCA353	MIS & E-Commerce
16MCA354	Cyber Security

IntellectualPropertyProperty

[As per Choice Based Credit System (CBCS) scheme]

SEMESTER –III

Subject Code	16MCA351	CIE Marks	20
Number of Lecture Hours/Week	03	SEE Marks	80
Total Number of Lecture Hours	40	SEE Hours	03

CREDITS – 03

Course Outcome (CO): At the end of this course, the students will be able to



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Bommanahalli, Hosur Road, Bangalore - 560 068.
Ph: 080-61754601/602, Fax: 080 - 25730551
E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

CO1: Identify which of the four main different types of **IntellectualPropertyProperty** may be represented by an output

CO2: Analyse an innovative or creative output in terms of **IntellectualPropertyProperty** generated

CO3: Discuss the appropriateness, or not, of registering an **IntellectualProperty** right

CO4: Apply the appropriate ownership rules to **IntellectualProperty** he / she has been involved in creating

CO5: Suggest ways of exploiting **IntellectualPropertyProperty** created in his / her own work.

Modules	Teaching Hours
Module -1	8 Hours
Introduction to IntellectualProperty Law – The Evolutionary Past - The IPR Tool Kit- Para -Legal Tasks in IntellectualProperty Law – Ethical obligations in Para Legal Tasks in IntellectualProperty Law - Introduction to Cyber Law – Innovations and Inventions Trade related IntellectualPropertyRight..	
Module -2	8 Hours
Introduction to Trade mark – Trade mark Registration Process – Post registration Procedures – Trade mark maintenance - Transfer of Property - Inter parties Proceeding – Infringement - Dilution Ownership of Trade mark – Likelihood of confusion - Trademarks claims – Trademarks Litigations – International Trade mark Law	
Module -3	8 Hours
Introduction to Copy Property – – Principles of Copyright Principles -The subjects Matter of Copy right – The Property Afforded by Copyright Law – Copy right Ownership,	



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Transfer and duration – Right to prepare Derivative works – **Property** of Distribution –

Property of Perform the work Publicity Copyright Formalities and Registrations -

Limitations - Copyright disputes and International Copyright Law – Semiconductor

Chip Protection Act

Module -4

8 Hours

The law of patents-patent searches –Patent ownership and transfer-Patent

infringement-International Patent Law

Module -5

8 Hours

Introduction to Trade Secret – Maintaining Trade Secret – Physical Security –

Employee Limitation - Employee confidentiality agreement - Trade Secret Law -

Unfair Competition – Trade Secret Litigation – Breach of Contract – Applying State

Law

Question paper pattern:

- ☐ The question paper will have ten questions.
- ☐ Each full question consists of 16 marks.

- ☐ There will be 2 full questions (with a maximum of four sub questions) from each module.
- ☐ Each full question will have sub questions covering all the topics under a module.
- ☐ The students will have to answer 5 full questions, selecting one full question from each module.

Text Books:

2. DebiragE.Bouchoux: “**IntellectualProperty**”. Cengage learning, New Delhi
4. M.Ashok Kumar and Mohd.Iqbal Ali: “**IntellectualProperty** Right” Serials Pub.
5. Cyber Law. Texts & Cases, South-Western’s Special Topics Collections.

Reference Books:

3. PrabhuddhaGanguli: ‘**IntellectualPropertyProperty**’ Tata Mc-Graw –Hill, New Delhi
4. J Martin and C Turner “**IntellectualProperty**” CRC Press Richard Stimm “**IntellectualProperty**” Cengage Learning



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2)2nd Year / 4th Semester Seminar(16MCA49)

IV Semester		CREDIT BASED						
Subject Code	Name of the Subject	Teaching hours/week		Duration of Exam in Hours	Marks for		Total Marks	CREDIT S
		Lecture	Practical / Assignment		CIE	SEE		
16MCA41	Advanced Java Programming	4	--	3	20	80	100	4
16MCA42	Advanced Web Programming	4	--	3	20	80	100	4
16MCA43	Software Testing and Practices	4	--	3	20	80	100	4
16MCA44	Elective-2	3	--	3	20	80	100	3
16MCA45	Elective-3	3	--	3	20	80	100	3
16MCA46	Advanced Java Programming Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA47	Advanced Web Programming Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA48	Software Testing Laboratory	--	3(2 hrs lab+ 1 hr instruction)	3	20	80	100	2
16MCA49	Seminar	--	2	--	50	--	50	1
Total		18	11	24	210	640	850	25

16MCA49 and 16MCA59: Seminar

- Students should present the seminar on cutting edge/emerging/state of the art technologies in the field of Computer Science and Applications.



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2018 – 19



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THE OXFORD COLLEGE OF ENGINEERING

INSTITUTIONAL CURRICULUM COMMITTEE MEETING 2018-2019 –(ODD)

The reconstitution of the Institutional curriculum committee was made and the meeting was held on 25/07/2018 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION	COMMITTEE DESIGNATION
1.	Dr R V Praveena Gowda	Principal	Chair Person
2.	Dr Saravana Kumar E	HOD-CSE (in-charge)	Member Coordinator
3.	Dr R Kanagavalli	HOD-ISE	Member
4.	Dr Manju Devi	HOD-ECE	Member
5.	Dr V S Bharath	HOD-EEE	Member
6.	Prof T V Nagaraja	HOD-ME	Member
7.	Dr B K Manjunath	HOD-BT	Member
8.	Dr Amarnath K	HOD-Civil & CTM	Member
9.	Dr Rohini Deshpande	HOD-MT	Member
10.	Dr Raju B R	HOD-AUTO	Member
11.	Dr Mallikarjuna K	HOD-Maths	Member
12.	Prof. Abdul Khader	HOD-Physics (in-charge)	Member
13.	Dr Surekha M	HOD-Chemistry	Member
14.	Dr Dhanalakshmi R V	HOD-MBA	Member
15.	Dr M S Shashidhara	HOD-MCA	Member
16.	Prof Betty B Sharat	In-Charge Principal -TOSA	Member

Agenda:

- Syllabus prescribed by VTU to be followed.
- To review implementation of time table for 2018- 19 Odd



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- To review the efforts made by the faculties in participating in BOS/ Academic council and question paper designing – evaluation and assessment
- To review on enrichment courses/Value added courses, Field visits/Industry visit and Internship/Community posting conducted and report submitted.
- To review implementation and delivery of cross cutting issues.

Summary

The committee is composed of Principal, Dean Academics and Head of all departments. The above-mentioned agenda was discussed and resolutions were formed. These were circulated to all the concerned departments and were recommended to be inculcated in their respective department curriculum meeting and implementation of the same.

Resolutions:

- It has been informed to all HOD's to implement the latest prescribed syllabus by VTU in the respective department.
- All the HOD's are required to submit time table 2018 -19 Odd
- HOD's should ensure and make their maximum efforts to make their faculties to participate In BOS and academic council members in affiliated university as well as outside universities
- It is decided to implement 2 add on courses for each department and an action plan to be submitted one week after this meeting.
- It is decided to implement 2 value added courses for each department and an action plan to be submitted one week after this meeting.
- It is decided to implement 2 interdisciplinary courses for each department and an action plan to be submitted one week after this meeting.
- It is decided to implement 1 field visit for each department and an action plan to be submitted one week after this meeting.
- The cross cutting issues should be integrated into the curriculum.


Dr. R V Praveena Gowda
PRINCIPAL

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INSTITUTIONAL CURRICULUM COMMITTEE MEETING 2018-2019 –(EVEN)

The reconstitution of the Institutional curriculum committee was made and the meeting was held on 18/02/2019 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION	COMMITTEE DESIGNATION
1.	Dr R V Praveena Gowda	Principal	Chair Person
2.	Dr Saravana Kumar E	HOD-CSE (in-charge)	Member Coordinator
3.	Dr R Kanagavalli	HOD-ISE	Member
4.	Dr Manju Devi	HOD-ECE	Member
5.	Dr V S Bharath	HOD-EEE	Member
6.	Prof T V Nagaraja	HOD-ME	Member
7.	Dr B K Manjunath	HOD-BT	Member
8.	Dr Amarnath K	HOD-Civil & CTM	Member
9.	Dr Rohini Deshpande	HOD-MT	Member
10.	Dr Raju B R	HOD-AUTO	Member
11.	Dr Mallikarjuna K	HOD-Maths	Member
12.	Prof. Abdul Kadar	HOD-Physics (in-charge)	Member
13.	Dr Surekha M	HOD-Chemistry	Member
14.	Dr Dhanalakshmi R V	HOD-MBA	Member
15.	Dr M S Shashidhara	HOD-MCA	Member
16.	Prof Betty B Sharat	In-Charge Principal -TOSA	Member

Agenda: Minutes

- To review that prescribed syllabus is being followed.
- To review the implementation of the Time table to be submitted.
- To review the efforts made by the faculties in participating in BOS/ Academic council and question paper designing – evaluation and assessment
- To review on Add on courses/Value added courses, Field visits/Industry visit and Internship report.



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- To review implementation and delivery of cross cutting issues.

Summary: Minutes

The committee is composed of Principal, Dean Academics and Head of all departments. The above-mentioned agenda was discussed and resolutions were formed. These were circulated to all the concerned departments and were recommended to be inculcated in their respective department curriculum meeting and implementation of the same.

Resolution:

- The approved syllabus is followed.
- The classes were conducted and attendance was checked.
- It was noticed that some faculties have been invited as BOS and BOE members from different some Autonomous colleges and universities
- One Add on course and one value added course has been done and the report is satisfactory.
- It has been advised to maintain an Attendance register, circular, reports and photographs for the activities conducted.


Dr. R V Praveena Gowda
PRINCIPAL
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Departmental Committee Meeting – (CSE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 –(ODD)

The department curriculum committee was made and the meeting was held on 25/07/2018 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr.Anandhi.R.J	Professor
2	Dr. E Saravana Kumar	Professor
3	Dr. Nirmala	Professor
4	Dr. Tamanna Jena	Professor
5	Ms. Shobha T	Assot. Professor
6	Mr. Senthil Kumar	Assot. Professor
7	Ms. SeemaPatil	Assot. Professor
8	Ms. Gousia T	Asst. Professor
9	Ms. Sowmya H K	Asst. Professor
10	Ms. Shilpa Kamman	Asst. Professor
11	Ms. Koyel Sinha Chowdhury	Asst. Professor
12	Ms. Maragatham	Asst. Professor
13	Ms. Florance G	Asst. Professor
14	Mr. Naveen H S	Asst. Professor
15	Ms. Sushma Gangadhar Gunjal	Asst. Professor
16	Ms. Jesy Janet Kumari	Asst. Professor
17	Ms. Aishwaraya N	Asst. Professor
18	Ms. AnarghaRemesh	Asst. Professor
19	Ms. KirtiTiwari	Asst. Professor



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20	Ms. Latha R	Asst. Professor
21	Ms. Archana R	Asst. Professor
22	Ms. Sushma T Shanbhogue	Asst. Professor
23	Ms. Anjali	Asst. Professor
24	Ms. Tintu	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. R J Anandhi welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	15CS742	Cloud Computing and its Applications
2	15CS754	Storage Area Networks
3	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
4	17MATDIP31	Additional Mathematics –I

5. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.



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6. Department announced to conduct the regular seminars to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2018 – 2019 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
11.	CSE	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


HOD/CSE

HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
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Departmental Committee Meeting – (CSE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 –(EVEN)

The department curriculum committee was made and the meeting was held on 18/02/2019 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. E Saravana Kumar	Professor
2	Dr. Nirmala	Professor
3	Ms. Shobha T	Assot. Professor
4	Mr. Senthil Kumar	Assot. Professor
5	Ms. SeemaPatil	Assot. Professor
6	Ms. Gousia T	Asst. Professor
7	Ms. Sowmya H K	Asst. Professor
8	Ms. Shilpa Kamman	Asst. Professor
9	Ms. Koyel Sinha Chowdhury	Asst. Professor
10	Ms. Maragatham	Asst. Professor
11	Ms. Florance G	Asst. Professor
12	Mr. Naveen H S	Asst. Professor
13	Ms. Sushma Gangadhar Gunjal	Asst. Professor
14	Ms. Jesy Janet Kumari	Asst. Professor
15	Ms. Aishwaraya N	Asst. Professor
16	Ms. AnarghaRemesh	Asst. Professor
17	Ms. KirtiTiware	Asst. Professor
18	Ms. Latha R	Asst. Professor
19	Ms. Archana R	Asst. Professor
20	Ms. Sushma T Shanbhogue	Asst. Professor
21	Ms. Anjali	Asst. Professor
22	Ms. Tintu	Asst. Professor



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Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

11. HOD, Dr. E Saravana Kumar, welcomed all the faculty and explained VTU, EVEN semester regulations.
12. Semester plan for 2018-19 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	15CS834	System Modeling and Simulation
2	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
3	17MATDIP41	Additional Mathematics –II

13. The discussion of the subjects of CBCS given in the above table, selected by the students.
14. Syllabus copy prescribed by the university circulated to the students and faculty.
15. Department announced to conduct the regular seminars to the students.
16. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
17. Department plans for Field Visit / Industrial Visit.
18. Planning for the Final Year's Project Works / Internships.
19. Mentor mentee list – discussion
20. The following certificate programs will be conducted during 2018 – 2019 EVEN semester



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Sl. No.	Name of the department	Name of the Certificate Program
1	CSE	Big Data and IOT

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

HOD, CSE

HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
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Departmental Committee Meeting – Information Science and Engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 – (EVEN)

The department curriculum committee was made and the meeting was held on 19/02/2019 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr.R.Kanagavalli	HOD
2.	Dr.Jayaramaiah. D	Professor
3.	Mrs.Vinodha K	Assot. Prof.
4.	Ms. Visalini S	Assot. Prof.
5.	Ms. KalaiSelvi	Asst. Prof.
6.	Ms.Nalinakshi B G	Asst. Prof.
7.	Ms. Kokila P	Asst. Prof.
8.	Mrs.Chempavathy B	Asst. Prof.
9.	Ms. Suganya R	Asst. Prof.
10.	Ms. Sindhuja	Asst. Prof.
11.	Mr. Channappa Gowda	Asst. Prof.
12.	Mr. Yadhu Krishna M R	Asst. Prof.
13.	Ms. Chitra G	Asst. Prof.
14.	Ms. InduK.S	Asst. Prof.
15.	Mr. Karthik S L	Asst. Prof.
16.	Mrs.Halaharvi Keerthi	Asst. Prof.
17.	Ms.Geethanjali	Asst. Prof.
18.	Ms.VarshaNilugal	Asst. Prof.



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19.	Mr. Amaresha	Asst. Prof.
20.	Ms. Riya Sanjesh	Asst. Prof.
21.	Ms.KajalGurnani	Asst. Prof.

Agenda:

7. Semester plan
8. Introduction of syllabus based on CBCS scheme
9. Conduction of seminars
10. Plan for Field Visit/ Industrial Visit
11. Plan for the (Final Year's) Project Works / Internships
12. Allotment the assignment topics and tutorial topics
13. Plan for mentoring activities

Summary: Minutes

1. HOD, Dr.R.Kanagavalli. D welcomed all the faculty and explained VTU, ODD semester regulations.
2. Semester plan for 2016-17 even semester and mentioning the activities planned in the department.
3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the (Final Year's) Project Works / Internships (with company names and details).



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9. Mentor mentee list – discussion

10. The following certificate programs will be conducted during 2018 – 2019 EVEN semester


Sl. No.	Name of the department	Name of the Certificate Program
5.	Information Science and Engineering	Cyber Security
2.	Information Science and Engineering	Big data and IoT

11. The following value-added programs will be conducted during 2018 – 2019 EVEN semester

Sl. No.	Name of the department	Name of the Value-added programs
12.	Information Science and Engineering	Soft skill training

Resolutions:

7. Faculty members are informed to motivate the students to involve in the Research activities.
8. Toppers from each semester to be motivated to get VTU ranks.
9. Result percentage of forthcoming semester to be improved.


PROFESSOR & HOD
The Oxford College of Engineering
Bommanahalli, Hosur Road, Bangalore - 560 068

HOD



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Departmental Committee Meeting – Information Science and Engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 – (ODD)

The department curriculum committee was made and the meeting was held on 26/07/2018 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr.R.Kanagavalli	HOD
2.	Dr.Jayaramaiah. D	Professor
3.	Mrs.Vinodha K	Assot. Prof.
4.	Ms. Visalini S	Assot. Prof.
5.	Ms. KalaiSelvi	Asst. Prof.
6.	Ms.Nalinakshi B G	Asst. Prof.
7.	Ms. Kokila P	Asst. Prof.
8.	Mrs.Chempavathy B	Asst. Prof.
9.	Ms. Suganya R	Asst. Prof.
10.	Ms. Sindhuja	Asst. Prof.
11.	Mr. Channappa Gowda	Asst. Prof.
12.	Mr. Yadhu Krishna M R	Asst. Prof.
13.	Ms. Chitra G	Asst. Prof.
14.	Ms. InduK.S	Asst. Prof.
15.	Mr. Karthik S L	Asst. Prof.
16.	Mrs.Halaharvi Keerthi	Asst. Prof.
17.	Ms.Geethanjali	Asst. Prof.
18.	Ms.VarshaNilugal	Asst. Prof.



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19.	Mr. Amaresha	Asst. Prof.
20.	Ms. Riya Sanjesh	Asst. Prof.
21.	Ms.KajalGurnani	Asst. Prof.

Agenda:

14. Semester plan
15. Value-added and certificate programs
16. Conduction of seminars
17. Plan for Field Visit/ Industrial Visit
18. Plan for the (Final Year's) Project Works / Internships
19. Allotment the assignment topics and tutorial topics

Summary: Minutes

10. HOD, Dr.Kanagavalli welcomed all the faculty and explained VTU, ODD semester regulations.
11. As per the VTU regulation guidelines the students of all Odd semester should follow it.
12. VTU has introduced Choice Based Credit System (CBCS)
13. Syllabus copy prescribed by the university circulated to the students and faculty.
14. Department announced to conduct the regular seminars to the students.
15. Department plans for Field Visit/ Industrial Visit.
16. Planning for the (Final Year's) Project Works / Internships (with company names and details).
17. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2018 – 2019 odd semesters

Sl. No.	Name of the department	Name of the Certificate Program
6.	Information Science and Engineering	Cyber Security



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2.	Information Science and Engineering	Big data and IoT
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The following value-added programs will be conducted during 2018– 2019 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
13.	Information Science and Engineering	Soft skill training

Resolutions:

10. Faculty members are informed to motivate the students to involve in the Research activities.
11. Toppers from each semester to be motivated to get VTU ranks.
12. Result percentage of forthcoming semester to be improved.


PROFESSOR & HOD, EE
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Department of ECE

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 (ODD)

The Department curriculum committee was made and the meeting was held on 26/07/2018 and the following members were present for the meeting.

Sno.	NAME	DESIGNATION
1	Dr.Nagaraj.R	Director&Professor
2	Dr.Vivek.M	Professor
3	Dr.PreetiSharan	Professor
4	Mr.N.Jayaraj	AssociateProf
5	Ms.SajithraVarun	AssociateProf
6	Mr.Piruthviraj.P	AssociateProf
7	Mr.N.Sridhar	AssociateProf
8	Ms.ChrispinJiji	Asst.Professor
9	Mr.Ravindra.V.S	Asst.Professor
10	Ms.SowmyaPadukone.G	Asst.Professor
11.	Mr.BhargavRamGowd	Asst.Professor
12.	Ms.LayaTojo	Asst.Professor
13.	Ms.Chandrakala.S	Asst.Professor
14	Ms.Aruna.J	Asst.Professor
15.	Mr.ManjunathSheth	Asst.Professor
16	Mr.Veeresh.H	Asst.Professor
17	Mr.Anand.K.Warad	Asst.Professor



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18	Mr.RichardLincolnPaulraj	Asst.Professor
19	Ms.SoniyaJames	Asst.Professor
20	Ms.Lakshmi.R	Asst.Professor
21	Mr.AravindReddy	Asst.Professor
22	Dhanya	Asst.Professor
23	JagadeeshwarReddy	Asst.Professor
24	Dr.Manju Devi	Prof&HOD
25	Dr.AnilTiwari	Professor
26	VarshaParihar	Asst.Professor
27	Rani.B.A	Asst.Professor
28	Megha.M.S	Asst.Professor
29	Poojashri.C.S	Asst.Professor
30	Bindu.P	Asst.Professor
31	PraveenKumar	Asst.Professor
32	Ashwini.M	Asst.Professor
33	NithikaBhasi	Asst.Professor
34	JishaChandra	Asst.Professor
35	Vidya.S.A	Asst.Professor
36	Dr.ReemaSharma	Asst.Professor



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Agenda:

- 1.Odd Semester Plan for Academics & Co-Curricular Activities
- 2.Introduction of CBCS & orientation for Students
- 3.Arrangement of Seminars ,Field Visits & Industrial Visit to Students
- 4.Conduction of Project Work, Internship work to Students

Summary:Minutes of meeting

,Dr.Manju Devi, HOD & Pro fwelcomed all the faculty and explained VTU, ODD Semester regulations.

5. Semester plan for2018-19ODD Semester and mentioning the activities planned in the Department.


Sl.No.	Nameofthedepartment	NameoftheCertificateProgram
1.	ECE	NCSEM-2019

6. The following value-added programs will be conducted during
2018 – 2019ODD-Semester

Sl.No.	Nameofthedepartment	NameoftheCertificateProgram
1.	ECE	RTCSE-2019

Resolutions:

The HOD & Faculties of the Department will do the Resolution that We all will work towards the over all growth of the Department ,Students & Organization.


Professor & HOD of E&C Engineering
The Oxford College of Engineering
Bommanahalli, Bangalore -560 068.



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DEPARTMENT OF ECE

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 (EVEN)

The Department curriculum committee was made and the meeting was held on 19/02/2019 and the following members were present for the meeting.

Sln.	NAME	DESIGNATION
1	Dr.Manju Devi	Professor&Head
2	Dr.Vivek.M	Professor
3	Dr.Preetasharan	Professor
4	Mr.N.Jayaraj	AssociateProf
5	Ms.SajithraVarun	AssociateProf
7	Mr.N.Sridhar	AssociateProf
8	Ms.ChrispinJiji	Asst.Professor
9	Mr.Ravindra.V.S	Asst.Professor
10	Ms.SowmyaPadukone.G	Asst.Professor
11.	Mr.BhargavRamGowd	Asst.Professor
12.	Ms.LayaTojo	Asst.Professor
13.	Ms.Chandrakala.S	Asst.Professor
14	Ms.Aruna.J	Asst.Professor
15.	Mr.ManjunathSheth	Asst.Professor
16	Mr.Veeresh.H	Asst.Professor
17	Mr.Anand.K.Warad	Asst.Professor



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19	Ms.SoniyaJames	Asst.Professor
20	Ms.Lakshmi.R	Asst.Professor
21	Mr.AravindReddy	Asst.Professor
22	Dhanya	Asst.Professor
23	JagadeeshwarReddy	Asst.Professor
24	Dr.Manju Devi	Prof&HOD
25	Dr.AnilTiwari	Professor
26	VarshaParihar	Asst.Professor
27	Rani.B.A	Asst.Professor
28	Megha.M.S	Asst.Professor
29	Poojashri.C.S	Asst.Professor
30	Bindu.P	Asst.Professor
31	PraveenKumar	Asst.Professor
32	Ashwini.M	Asst.Professor
33	NithikaBhasi	Asst.Professor
34	JishaChandra	Asst.Professor
35	Vidya.S.A	Asst.Professor
36	Dr.ReemaSharma	Asst.Professor



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Agenda:

1. Even Semester Plan for Academics & Co-Curricular Activities
2. Introduction of CBCS & orientation for Students
3. Arrangement of Seminars, Field Visits & Industrial Visit to Students
4. Conduction of Project Work, Internship work to Students

Summary: Minutes of meeting

,Dr.ManjuDevi,HOD&Profwelcomed all the faculty and explained VTU, EvenSemesterregulations.

3. Semester plan for 2018- 19 Even Semester and mentioning the activities planned in the Department.

Sl.No.	Nameofthedeptment	NameoftheCertificateProgram
1.	ECE	NCSEM-2019


4. The following value-added programs will be conducted during 2018 – 2019 Even-Semester

Sl.No.	Nameofthedeptment	NameoftheCertificateProgram
1.	ECE	RTCSE-2019

Resolutions:

The HOD & Faculties of the Department will do the Resolution that We all will work towards the overall growth of the Department ,Students & Organization.

HOD


Professor & HOD of E&C Engineering
The Oxford College of Engineering
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Departmental Committee Meeting – (EEE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 –(ODD)

The department curriculum committee was made and the meeting was held on 19/07/2018 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr.Bharath.V.S	Prof.& HOD
2	Dr.V.Chinnappan	Prof
3	Dr.Gurumurthy	Prof
4	Mrs.SandhyaRai	Prof.
5	Mr.N.Jayakumar	Assoc. Prof.
6	Mrs.Nisha.C.Rani	Prof.
7	Mrs.B.DeviVighneshwari	Assoc. Prof.
8	Mrs.Raichel Ruby	Assoc. Prof.
9	Mrs.Manjula.C	Assoc. Prof.
10	Mrs.Viji.K	Assoc. Prof.
11	Mrs.NalinaKumari	Assoc. Prof.
12	Mr.Muniyappa.N	Assoc. Prof.
13	Mrs.Thilaga.P	Asst. Prof.
14	Mrs.NavathaKumari	Asst. Prof
15	Mrs.Sumitha.T.L	Asst. Prof.
16	Mrs.Someswari	Asst. Prof.



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17	Mrs.ArutselviNagammai	Asst. Prof.
18	Ms.Deepa.N.Raju	Asst. Prof.
19	Mrs.Vinutha.Y.E	Asst. Prof.
20	Mrs.Thiruvonasundari.D	Asst. Prof.
21	Ms.Savitha.M	Asst. Prof.
22	Ms.Swapna.C.M	Asst. Prof.
23	Mrs.Resna.S.R	Asst. Prof.
24	Ms.Deepa.R	Asst.Prof.
25	Ms.Bhuvaneswari.M	Asst.Prof.
26	Mr.Madhusudan Reddy	Asst.Prof.
27	Mr.Raghumanth A	Asst.Prof.
28	Anoop H K	Asst.Prof

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship



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Minutes of Meeting:

1. HOD, Dr.Bharath.V.S welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	15EE742	Utilization of Electrical Power
2	15EE752	Testing and commissioning of power system Apparatus
3	15EE764	VLSI Circuit and Design
4	15KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
5	15MATDIP31	Additional Mathematics –I

5. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
6. Department announced to conduct the regular seminars to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2018 – 2019 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	EEE	Technical Skill Training on "AUTOMATION (PLC&SCADA), DRIVES, LV SWITCHGEAR"



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Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Professor in Charge EEE
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HOD-EEE



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Departmental Committee Meeting – (EEE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 –(EVEN)

The department curriculum committee was made and the meeting was held on 04/02/2019 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr.Bharath.V.S	Prof.& HOD
2	Dr.V.Chinnappan	Prof
3	Dr.Gurumurthy	Prof
4	Mrs.SandhyaRai	Prof.
5	Mr.N.Jayakumar	Assoc. Prof.
6	Mrs.Nisha.C.Rani	Prof.
7	Mrs.B.DeviVighneshwari	Assoc. Prof.
8	Mrs.Raichel Ruby	Assoc. Prof.
9	Mrs.Manjula.C	Assoc. Prof.
10	Mrs.Viji.K	Assoc. Prof.
11	Mrs.NalinaKumari	Assoc. Prof.
12	Mr.Muniyappa.N	Assoc. Prof.
13	Mrs.Thilaga.P	Asst. Prof.
14	Mrs.NavathaKumari	Asst. Prof
15	Mrs.Sumitha.T.L	Asst. Prof.
16	Mrs.Someswari	Asst. Prof.
17	Mrs.ArutselviNagammai	Asst. Prof.



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18	Ms.Deepa.N.Raju	Asst. Prof.
19	Mrs.Vinutha.Y.E	Asst. Prof.
20	Mrs.Thiruvonasundari.D	Asst. Prof.
21	Ms.Savitha.M	Asst. Prof.
22	Ms.Swapna.C.M	Asst. Prof.
23	Mrs.Resna.S.R	Asst. Prof.
24	Ms.Deepa.R	Asst.Prof.
25	Ms.Bhuvanewari.M	Asst.Prof.
26	Mr.Madhusudan Reddy	Asst.Prof.
27	Mr.Raghumanth A	Asst.Prof.
28	Anoop H K	Asst.Prof

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship

Minutes of Meeting:

1. HOD, Dr.Bharath.V.S, welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2018-19 even semester and mentioning the activities planned in the department.



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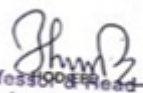
Sl. No.	CBCS ELECTIVE/MATDIP	
1	15EE831	SMART GRID
2	15KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
3	15MATDIP41	Additional Mathematics –II

3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Mentor mentee list – discussion
10. The following certificate programs will be conducted during 2018– 2019 EVEN semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	EEE	Technical Skill Training on "AUTOMATION (PLC&SCADA), DRIVES, LV SWITCHGEAR"

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Professor in Charge-EEE
The Oxford College of Engg
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HOD- EEE



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Departmental Committee Meeting--(BRANCH): Mechanical Engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019--(ODD)

The department curriculum committee was made and the meeting was held on 11/08/2018 and the following members were present for the meeting.

S/no.	NAME	DESIGNATION
1	DR. MAHENDRADONGADI	HOD
2	RAVIPRAKASH	Professor
3	VIDHYADHARPOOJAR	Professor
4	PRASADNAYAK	Professor
5	VARUNK.R	Assistant Professor
6	ABHIJITH	Assistant Professor
7	T.V.NAGARAJA	Assistant Professor
8	SHIVAKUMAR	Assistant Professor
9	VINAYV	Assistant Professor
10	ANOOPUPADYAYA	Assistant Professor



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Agenda:

1. Finalization of departmental activities for the academic year.
2. Allocation of subjects to faculties.
3. Approval of project batch.

Summary: Minutes

1. HOD, Dr. Mahendra Dongadi welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
6. Department announced to conduct the regular seminars to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2018 – 2019 odd semester

Sl.No.	Name of the department	Name of the Certificate Program
4.	Mechanical engineering	Engineering graphics
2	Mechanical engineering	Programming with micro processor

The following value-added programs will be conducted during 2018–2019 odd semester

Sl.No.	Name of the department	Name of the Value-added programs
4.	Mechanical engineering	Design of circuit for hydraulic fluids
2	Mechanical engineering	Programming with micro processor

Resolutions:



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- Each faculty has to take two theory subjects and one lab, out of which one subject will be choice of faculty while the others subject will be left to the discretion of HOD.
- Departmental activities are to be planned as per calendar of institution and must be got approval from principal.
- Fore man is given in charge to finalise the budget allocations for various labs/workshops in consultation with lab in charges.


PROFESSOR & HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
BOMMANAHALLI, BANGALORE 560068



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Departmental Committee Meeting--(BRANCH):mechanical engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019--(EVEN)

The department curriculum committee was made and the meeting was held on 1/03/2019 and the following members were present for the meeting.

Sln.	NAME	DESIGNATION
1	DR. MAHENDRADONGADI	HOD
2	RAVIPRAKASH	Professor
3	VIDHYADHARPOOJAR	Professor
4	PRASADNAYAK	Professor
5	VARUNK.R	Assistant Professor
6	ABHIJITH	Assistant Professor
7	T.V.NAGARAJA	Assistant Professor
8	SHIVAKUMAR	Assistant Professor
9	VINAYV	Assistant Professor
10	ANOOPUPADYAYA	Assistant Professor

Agenda:

1. Allocation of subject to staff.
2. Identifying lab in charges /mentors/ class teachers.
3. Finalizing departmental activities to be conducted.

Summary: Minutes



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1. HOD, Dr. Mahendra Dongadi welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2018-19 even semester and mentioning the activities planned in the department.

Sl.No.	Name of the Department	CBCS
1.	Mechanical engineering	4 th semester & 5 th semester

3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. As per the VTU regulation guidelines the students of B.E have to select one subject from the MOOCS-I, MOOCS-II & MOOCS-III

Sl.No	Name of the Department	MOOCS – I	MOOCS – II	MOOCS – III
1.	Mechanical engineering	nil	nil	nil

5. Syllabus copy prescribed by the university circulated to the students and faculty.
6. Department announced to conduct the regular seminar to the students.
7. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
8. Department plans for Field Visit/Industrial Visit.
9. Planning for the (Final Year's) Project Works/ Internships (with company names and details).
10. Mentor mentee list – discussion
11. The following certificate programs will be conducted during 2018 – 2019



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EVENsemester


Sl.No.	Nameofthedepartment	NameoftheCertificateProgram
1.	Mechanicalengineering	nil

12. The following value-added programs will be conducted during 2018– 2019
(EVENsemester)

Sl.No.	Nameofthedepartment	NameoftheValue-addedprograms
4.	Mechanicalengineering	nil

Resolutions:

- Allocationofsubjectsforstaffseniorstafftotakefirstyearclasses.
- Classteachers/mentors/labinchargesaremade.
- Lab instructors to be changed on priority basis so that each should be able to handleallmechanical labs.
- Mentormentee list approved.


PROF. & HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
BOMMANAHALLI, BANGALORE 560068



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Departmental Committee Meeting – BIOTECHNOLOGY

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018 -2019 –(ODD)

The department curriculum committee was made and the meeting was held on 25/07/2018 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr. B.K.Manjunath	HOD
2.	Dr. T.K. Suma	Asst.Professor
3.	Prof. Valarmathy	Asst.Professor
4.	Prof. Divakara	Asst.Professor
5.	Prof. Salma Kausar.M	Asst.Professor
6.	Prof.Tanushree	Asst.Professor
7.	Prof. Sindhu	Asst.Professor

Agenda:

1. Commencement of the academic year
2. General instruction & working plan of the department to be discussed
3. Updating of course files & NBA status discussion
4. Action plan to execute department activity.
5. Other points if any to be discussed

Summary: Minutes

1. Faculties were allotted with coordinator workload for the new academic year
2. Each faculty was assigned with theory & practical subject workload
3. faculties were asked to inform students about the digital library in the college & make use of it effectively'



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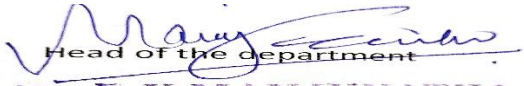
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4. All faculties were informed to strictly monitor the attendance & IA performance of students.
5. All faculties were informed to ensure every class performs at least 2 activities.

Resolutions:

- To achieve better results and aiming for many more VTU ranks.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the department
DR. B.K. MANJUNATHA
Professor & Head
Department of Biotechnology
The Oxford College of Engineering
Bangaluru-560 068

HOD (SEAL)



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Departmental Committee Meeting – BIOTECHNOLOGY

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 –(EVEN)

The department curriculum committee was made and the meeting was held on 05/02/2019 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr. B.K.Manjunath	HOD
2.	Dr. T.K. Suma	Asst.Professor
3.	Prof. Valarmathy	Asst.Professor
4.	Prof. Divakara	Asst.Professor
5.	Prof. Salma Kausar.M	Asst.Professor
6.	Prof.AratiSuvatha	Asst.Professor
7.	Prof. Aswathi. U	Asst.Professor

Agenda:

1. Semester planner was decided and department level coordinators work was allotted
2. General instruction & working plan of the department to be discussed
3. Updating of course files
4. Faculty assigning of project guides, scrutinizing of project domain & title
5. Action plan to execute department activity.
6. Other points if any to be discussed

Summary: Minutes

1. HOD, Dr. Kusum Paul welcomed all the faculty and explained VTU, EVEN semester regulations.
2. HOD informed about the Semester plan for 2017-18 even semester and mentioned the activities planned in the department.
3. Syllabus copy prescribed by the university circulated to the students and faculty.



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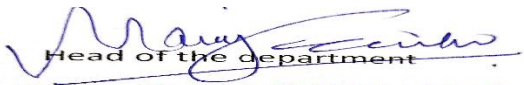
4. Faculties were informed to make students select the elective subjects for even semester.
5. HOD informed faculty coordinator to plan for Industrial visits/ field visit.
6. Planning for the (Final Year's) Project Works / Internships (with company names and details) was intimated by HOD.
7. Mentor mentee list – discussion was done and the document updating status & deadline was informed to all the faculties.
8. The following value-added programs will be conducted during 2018 – 2019 EVEN semester
9. Faculties were informed about NBA visit to the department & to be prepared for the inspection.

The following value-added programs will be conducted during 2018 – 2019 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	BT	Next Generation sequencing technologies
2.	BT	Soft skill & Aptitude training

Resolutions:

1. To achieve better results and aiming for many more VTU ranks.
2. To encourage students to undergo Certificate/Value Added courses.
3. To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the department
DR. B.K. MANJUNATHA
Professor & Head
Department of Biotechnology
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Bangaluru-560 068

HOD (SEAL)



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Departmental Committee Meeting – (CIVIL)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 –(ODD)

The department curriculum committee was made and the meeting was held on 27/07/2018 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. T S Malleshaiah	Professor
2	Mr Shivanand C G	Assot Professor
3	Mr. Prashanth	Asst. Professor
4	Mr. Maheshkumar	Asst. Professor
5	Ms. Kavya	Asst. Professor
6	Ms. Harsha	Asst. Professor
7	Ms. Shradha	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

- 1.HOD, Dr. T S Malleshaiah welcomed all the faculty and explained VTU, ODD semester regulations.
- 2.As per the VTU regulation guidelines the students of all Odd semester should follow it.
- 3.VTU has introduced Choice Based Credit System (CBCS).
- 4.Syllabus copy prescribed by the university circulated to the students and faculty.



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Sl. No.	CBCS ELECTIVE/MATDIP	
1	18CV734	Ground Water Hydraulics
2	18CV745	Urban transport planning

5.The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.

6.Department announced to conduct the regular seminars to the students.

7.Department plans for Field Visit / Industrial Visit.

8.Planning for the Final Year's Project Works / Internships.

9.Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2018 – 2019 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	CIVIL	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the Department
Department of Civil Engineering
The Oxford College of Engineering
Bangalore - 560 068.



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Departmental Committee Meeting – (CIVIL)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 –(EVEN)

The department curriculum committee was made and the meeting was held on 22/02/2019 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. T S Malleshaiah	Professor
2	Mr Shivanand C G	Assot Professor
3	Mr. Prashanth	Asst. Professor
4	Mr. Maheshkumar	Asst. Professor
5	Ms. Kavya	Asst. Professor
6	Ms. Harsha	Asst. Professor
7	Ms. Shradha	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

- 1.HOD, Dr.T S Malleshaiah welcomed all the faculty and explained VTU, EVEN semester regulations.
- 2.Semester plan for 2018-19 even semester and mentioning the activities planned in the department.



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Sl. No.	CBCS ELECTIVE/MATDIP	
1	18CV825	Pavement Design

3.The discussion of the subjects of CBCS given in the above table, selected by the students.

Syllabus copy prescribed by the university circulated to the students and faculty.

4.Department announced to conduct the regular seminars to the students.

5.Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.


6.Department plans for Field Visit / Industrial Visit.

7.Planning for the Final Year's Project Works / Internships.

8.Mentor mentee list – discussion

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the Department
Department of Civil Engineering
The Oxford College of Engineering
Bangalore - 560 068.



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Departmental Committee Meeting – (Automobile Engineering)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 –(ODD)

The department curriculum committee was made and the meeting was held on 25/07/2018 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. Raju B R	Professor
2	Dr. Suresh R	Professor
3	Mr. Ashok Kumar Thavd	Assot. Professor
4	Mr. Sandeep K Chavan	Asst. Professor
5	Mr. Hemantha C	Asst. Professor
6	Mr. Priyankar Dhole	Asst. Professor
7	Mr. Harish Kumar M	Asst. Professor
8	Mr. Maruthi S B	Asst. Professor
9	Mr. Deepak U. S	Asst. Professor
10	Mr. Raviteja R. N	Asst. Professor
11	Mr. Mahipal Reddy	Asst. Professor
12	Mr. Prasanna. S. M	Asst. Professor
13	Mr. Joshua. F	Asst. Professor
14	Mr.Sapthagiri Prasad N	Asst. Professor
15	Mr. Karthik. K	Asst. Professor



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Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

- 1.HOD, Dr.Raju B R welcomed all the faculty and explained VTU, ODD semester regulations.
- 2.As per the VTU regulation guidelines the students of all odd semester should follow it.
- 3.VTU has introduced Choice Based Credit System (CBCS) for 2018-19 scheme.
- 4.Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	15AU741	Earth Moving Equipment & Tractors
2	15AU754	Two And Three Wheeled Vehicle
3	18KVK/KAK/39/49 18CPC39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
4	18MATDIP31	Additional Mathematics –I

- 5.The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
- 6.Department announced to conduct the regular seminars to the students.
- 7.Department plans for Field Visit / Industrial Visit.
- 8.Planning for the Final Year's Project Works / Internships.



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9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2018 – 2019 odd semester.

Sl. No.	Name of the department	Name of the Value-added programs
14.	Automobile Engg.	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Professor & Head
Department of Automobile Engineering
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bangalore-560 068



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Departmental Committee Meeting – (Automobile Engineering)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 –(EVEN)

The department curriculum committee was made and the meeting was held on 18/02/2019 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. Raju B R	Professor
2	Dr. Suresh R	Professor
3	Mr. Ashok Kumar Thavd	Assot. Professor
4	Mr. Sandeep K Chavan	Asst. Professor
5	Mr. Hemantha C	Asst. Professor
6	Mr. Priyankar Dhole	Asst. Professor
7	Mr. Harish Kumar M	Asst. Professor
8	Mr. Maruthi S B	Asst. Professor
9	Mr. Deepak U. S	Asst. Professor
10	Mr. Raviteja R. N	Asst. Professor
11	Mr. Mahipal Reddy	Asst. Professor
12	Mr. Prasanna. S. M	Asst. Professor
13	Mr. Joshua. F	Asst. Professor
14	Mr.Sapthagiri Prasad N	Asst. Professor
15	Mr. Karthik. K	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar



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- Implementation of certificate/value added courses.
- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1.HOD, Dr. Raju B R, welcomed all the faculty and explained VTU, EVEN semester regulations.

2.Semester plan for 2018-19 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	15AU831	Total Quality Management
2	18KVK/KAK/39/49 18CPC39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
3	18MATDIP41	Additional Mathematics –II

3.The discussion of the subjects of CBCS given in the above table, selected by the students.

4.Syllabus copy prescribed by the university circulated to the students and faculty.

5.Department announced to conduct the regular seminars to the students.

6.Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

7.Department plans for Field Visit / Industrial Visit.

8.Planning for the Final Year's Project Works / Internships.

9.Mentor mentee list – discussion

10.The following certificate programs will be conducted during 2018 – 2019 EVEN semester.



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Approved by A.I.C.T.E. New Delhi.

Recognised by UGC Under Section 2(f)

Bommanahalli, Hosur Road, Bangalore - 560 068.

Ph: 080-61754601/602, Fax: 080 - 25730551

E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

Sl. No.	Name of the department	Name of the Certificate Program
1	Automobile Engineering	HYPERMESH

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

Professor & Head
Department of Automobile Engineering
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bangalore-560 068



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Departmental Committee Meeting – (MTE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 –(ODD)

The department curriculum committee was made and the meeting was held on 14/07/2018 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. NB Doddapattar	Professor & HOD
2	Dr. Shivappa	Professor & HOD
3	Mr. Rajesh	Asst. Professor
4	Mr. Rgavendra	Asst. Professor
5	Mr. Ravi s Jadhav	Asst. Professor
6	Ms. Rekha	Asst. Professor
7	Ms. Premela	Asst. Professor
9	Ms. Vijaykumar kurubha	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:



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1. HOD, Dr. Rohini Deshpande welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans for Field Visit / Industrial Visit.
7. Planning for the Final Year's Project Works / Internships.
8. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2018 – 2019 odd semester

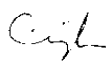
Sl. No.	Name of the department	Name of the Certificate Program
1	MTE	MATLAB
2		LEGO
3		ROBOTICS

The following value-added programs will be conducted during 2018 – 2019 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
	MTE	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


HOD
Prof. & HOD
Department of Mechatronics
The Oxford College Of Engineering
Bommanahalli, Bangalore - 560 068.



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Departmental Committee Meeting – (MTE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2017-2018 –(EVEN)

The department curriculum committee was made and the meeting was held on 01/02/2017 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. NB Doddapattar	Professor & HOD
2	Dr. Shivappa	Professor & HOD
3	Mr. Rajesh	Asst. Professor
4	Mr. Rgavendra	Asst. Professor
5	Mr. Ravi s Jadhav	Asst. Professor
6	Ms. Rekha	Asst. Professor
7	Ms. Premela	Asst. Professor
9	Ms. Vijaykumar kurubha	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. NB Doddapattar, welcomed all the faculty and explained VTU, EVEN semester regulations.



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2. Semester plan for 2018-19 even semester and mentioning the activities planned in the department.
3. Syllabus copy prescribed by the university circulated to the students and faculty.
4. Department announced to conduct the regular seminars to the students.
5. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
6. Department plans for Field Visit / Industrial Visit.
7. Planning for the Final Year's Project Works / Internships.
8. Mentor mentee list – discussion
9. The following certificate programs will be conducted during 2018 – 2019 EVEN semester

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

C. J. S.
HOD

Prof. & HOD
Department of Mechatronics
The Oxford College Of Engineering
Bommanahalli Bangalore - 560 068.



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MBA - DEPARTMENTAL CURRICULUM COMMITTEE MEETING
2018-2019 –(ODD)

The department curriculum committee was made and the meeting was held on 26/07/2018 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr R V Dhanalakshmi	HOD
2.	Dr.PGiridhar Reddy	Associate Professor
3.	Dr BalaKoteswari	Associate Professor
4.	Ms. Umasharma	Assistant Professor
5.	Ms. Richa Tiwari	Assistant Professor
6.	Ms. Savitha	Assistant Professor
7.	Ms. Sahana	Assistant Professor
8.	Mr.Gokul	Assistant Professor
9.	Mr.Chikkegowda	Assistant Professor
10.	Ms.Chandrika	Assistant Professor
11.	Ms. Paronita	Assistant Professor

Agenda:

1. Syllabus discussion.
2. Seminars plan.
3. Industrial visit.



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4. Project work and internship plan.

Summary: Minutes

1. HOD, Dr. R V Dhanalakshmi welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduces Choice Based Credit System (CBCS)
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans for Field Visit/ Industrial Visit.
7. Planning for the (Final Year's)Project Works / Internships (with company names and details).
8. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

Resolutions:

1. VTU new syllabus and regulation should be discussed with students before 28th July.
2. Seminar plan has conducted on one topic before the 1st internal assessment.
3. Tutorials and assignment plan has to ready on before 5th august.
4. Student evaluation and mentoring record to be submit on before 10th august.

HOD, Deptt. of Business Administration
The Oxford College of Engineering
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MBA -DEPARTMENTAL CURRICULUM COMMITTEE MEETING
2018-2019 – (EVEN)

The department curriculum committee was made and the meeting was held on 20/02/2019 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr R V Dhanalakshmi	HOD
2.	Dr.PGiridhar Reddy	Associate Professor
3.	Dr BalaKoteswari	Associate Professor
4.	Ms. Umasharma	Assistant Professor
5.	Ms. Richa Tiwari	Assistant Professor
6.	Ms. Savitha	Assistant Professor
7.	Ms. Sahana	Assistant Professor
8.	Mr.Gokul	Assistant Professor
9.	Mr.Chikkegowda	Assistant Professor
10.	Ms.Chandrika	Assistant Professor
11.	Ms. Paronita	Assistant Professor



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Agenda:

1. Welcome and discussion of ODD semester
2. Syllabus copy circulation
3. Tutorial Class
4. Industrial plan.

Summary: Minutes

1. HOD, Dr. R V Dhanalakshmi welcomed all the faculty and explained VTU, ODD semester regulations.
2. Semester plan for 2018-19 even semester and mentioning the activities planned in the department.
3. Syllabus copy prescribed by the university circulated to the students and faculty.
4. Department announced to conduct the regular seminars to the students.
5. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
6. Department plans for Field Visit / Industrial Visit.
7. Planning for the (Final Year's) Project Works / Internships (with company names and details).
8. Mentor mentee list – discussion

Resolutions:

1. Syllabus copy should be circulated on or before 22nd Feb 2019.
2. One industrial visit to be arranged on or before 1st March 2019.
3. Seminar and other activities has to done each subjects on before 10th march 2019.
4. Students and mentors discussion and evaluation to be done before 7th March 2019.

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Departmental Committee Meeting – (MCA)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 –(ODD)

The department curriculum committee was made and the meeting was held on 26/07/2018 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. M S Shashidhara	Professor
2	Dr. Praveen Kumar P U	Professor
3	Dr.Susil Kumar Sahu	Professor
4	Mr.Ashok B P	Assot. Professor
5	Mr. Dharamvir	Assot. Professor
6	Mr. JC Achutha	Assot. Professor
7	Mrs. Saritha S	Assot. Professor
8	Mrs. Mridula Shukla	Assot. Professor
9	Mrs. Selvi E	Assot. Professor
10	Ms. R Ushasree	Asst. Professor
11	Mr. Changappa M R	Asst. Professor
12	Mr. Indrakumar S S	Asst. Professor
13	Mrs. Stuti Agarwal	Asst. Professor
14	Ms. Kimmi Kumari	Asst. Professor
15	Ms. Anjana S Murthy	Asst. Professor
16	Ms. Punya V	Asst. Professor
17	Ms. Sudha K	Asst. Professor
18	Mr. Chandran M	Asst. Professor



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19	Mrs.Selastina Mary A	Asst. Professor
20	Mrs.Moumita Kali	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. M S Shashidhara welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	18MCA46	Professional Communication & Report Writing
2	18MCA53	Machine Learning
3	18MCA542	Computer Graphics
4	18MCA543	Image Processing

5. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
6. Department announced to conduct the regular seminars to the students.
7. Department plans for Field Visit / Industrial Visit.



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8. Planning for the Final Year's Project Works / Internships.
9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2018 – 2019 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
15.	MCA	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Signature of the HOD
Dr. M.S. Shashidhara
Dept. of MCA



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Departmental Committee Meeting – (MCA)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 –(EVEN)

The department curriculum committee was made and the meeting was held on 18/02/2019 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. M S Shashidhara	Professor
2	Dr. Praveen Kumar P U	Professor
3	Dr.Susil Kumar Sahu	Professor
4	Mr.Ashok B P	Assot. Professor
5	Mr. Dharamvir	Assot. Professor
6	Mr. JC Achutha	Assot. Professor
7	Mrs. Saritha S	Assot. Professor
8	Mrs. Mridula Shukla	Assot. Professor
9	Mrs. Selvi E	Assot. Professor
10	Ms. R Ushasree	Asst. Professor
11	Mr. Changappa M R	Asst. Professor
12	Mr. Indrakumar S S	Asst. Professor
13	Mrs. Stuti Agarwal	Asst. Professor
14	Ms. Kimmi Kumari	Asst. Professor
15	Ms. Anjana S Murthy	Asst. Professor
16	Ms. Punya V	Asst. Professor
17	Mr. Chandran M	Asst. Professor
18	Mrs.Selastina Mary A	Asst. Professor



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19	Mrs.Moumita Kali	Asst. Professor
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Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. M S Shashidhara, welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2018-19 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	18MCA46	Professional Communication & Report Writing
2	18MCA53	Machine Learning
3	18MCA542	Computer Graphics
4	18MCA543	Image Processing

3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.



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5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Mentor mentee list – discussion
10. The following certificate programs will be conducted during 2018 – 2019 EVEN semester

Sl. No.	Name of the department	Name of the Certificate Program
1	MCA	Python with Machine Learning

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Signature of the HOD
Dr. M.S. Shashidhara
Dept. of MCA



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List and Description of courses (1) Subject, (2) Subject Code, (3) Curriculum Objective, (4) Delivery Methodology with Number of hours, (5) PO, PSO, CO Mapping, (6) Crosscutting Issues Integrated which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

2018-19

Dept. of Computer Science & Engineering

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Choice Based Credit System (CBCS) AND Outcome Based Education (OBE)												
(Effective from the academic year 2018 – 19)												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	BSC	18MAT31	Transform Calculus, Fourier Series And Numerical Techniques	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CS32	Data Structures and Applications	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS33	Analog and Digital Electronics	CS / IS	3	0	--	03	40	60	100	3
4	PCC	18CS34	Computer Organization	CS / IS	3	0	--	03	40	60	100	3
5	PCC	18CS35	Software Engineering	CS / IS	3	0	--	03	40	60	100	3
6	PCC	18CS36	Discrete Mathematical Structures	CS / IS	3	0	--	03	40	60	100	3
7	PCC	18CSL37	Analog and Digital Electronics Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL38	Data Structures Laboratory	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18KVK39	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK39	Aadalitha Kannada (Kannada for Administration)									
		OR	OR									
		18CPC39	Constitution of India, Professional Ethics and Cyber Law									
TOTAL					17	08	04	24	420	480	900	24
					OR	OR		OR	OR	OR		
					18	10		26	360	540		



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B. E. Common to all Programmes Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To <ul style="list-style-type: none"> • know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens • Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. • Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution: The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive: Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions: Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions: Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			
Professional / Engineering Ethics: Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering			
Module-5			



CHILDREN'S EDUCATION SOCIETY (Regd.)
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Bommanahalli, Hosur Road, Bangalore - 560 068.

Ph: 080-61754601/602, Fax: 080 - 25730551

E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for **Cyber Laws**, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be able to,

CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and **Professional ethics and responsibilities** of Engineers.

CO 3: Understand the the cybercrimes and **cyber laws** for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Choice Based Credit System (CBCS) AND Outcome Based Education (OBE)												
(Effective from the academic year 2018 – 19)												
V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	HSMC	18CS51	Management, Entrepreneurship for IT industry	HSMC	2	2	--	03	40	60	100	3
2	PCC	18CS52	Computer Networks and Security	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS53	Database Management System	CS / IS	3	2	--	03	40	60	100	4
4	PCC	18CS54	Automata theory and Computability	CS / IS	3	--	--	03	40	60	100	3
5	PCC	18CS55	Application Development using Python	CS / IS	3	--	--	03	40	60	100	3
6	PCC	18CS56	Unix Programming	CS / IS	3	--	--	03	40	60	100	3
7	PCC	18CSL57	Computer Network Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL58	DBMS Laboratory with mini project	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental	1	--	--	02	40	60	100	1
				[Paper setting: Civil Engineering Board]								
TOTAL					18	10	04	26	360	540	900	25
Note: PCC: Professional Core, HSMC: Humanity and Social Science.												
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.												



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B. E. COMMON TO ALL PROGRAMMES				
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)				
SEMESTER – V				
ENVIRONMENTAL STUDIES				
Course Code	18CIV59	CIE Marks	40	
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60	
Credits	01	Exam Hours	02	
Module - 1				
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.				
Module - 2				
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.				
Module - 3				
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and Air Pollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.				
Module - 4				
Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.				
Module - 5				
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.				
Course Outcomes: At the end of the course, students will be able to:				
<ul style="list-style-type: none"> • CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale, • CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment. • CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components. • CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues. 				
Question paper pattern:				
<ul style="list-style-type: none"> • The Question paper will have 100 objective questions. • Each question will be for 01 marks • Student will have to answer all the questions in an OMR Sheet. • The Duration of Exam will be 2 hours. 				
Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				



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1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition 2018
3	Environmental Studies– From Crisis to Cure	RRajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of Environmental Science andEngineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh& Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition



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B.E Information Science & Engineering

Scheme

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical	Duration in hours	CIE Marks	SEE Marks	Total Marks	
	L	T	P	Duration in hours	CIE Marks	SEE Marks	Total Marks					
1	BSC	18MAT31	Transform Calculus, Fourier Series And Numerical Techniques	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CS32	Data Structures and Applications	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS33	Analog and Digital Electronics	CS / IS	3	0	--	03	40	60	100	3
4	PCC	18CS34	Computer Organization	CS / IS	3	0	--	03	40	60	100	3
5	PCC	18CS35	Software Engineering	CS / IS	3	0	--	03	40	60	100	3
6	PCC	18CS36	Discrete Mathematical Structures	CS / IS	3	0	--	03	40	60	100	3
7	PCC	18CSL37	Analog and Digital Electronics Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL38	Data Structures Laboratory	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18KVK39	Vyavaharika Kannada (Kannada for communication)/	HSMC	-	2	--	--	100	--	100	1
		18KAK39	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39	Constitution of India, Professional Ethics and Cyber Law									
TOTAL					17	08		24	420	480	900	24
					OR	OR		OR	OR	OR		
					18	10	04	26	360	540		

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI						
Scheme of Teaching and Examination 2018 – 19						
Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)						
V SEMESTER						
				Teaching Hours /Week	Examination	



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Sl. No	Course and Course code		Course Title		Theory Lecture	Tutorial	Practical	Duration in hours	CIE Marks	SEE Marks	Total Marks	
	L	T			P							
1	HSMC	18CS51	Management, Entrepreneurship for IT Industry	HSMC	2	2	--	03	40	60	100	3
2	PCC	18CS52	Computer Networks and Security	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS53	Database Management System	CS / IS	3	2	--	03	40	60	100	4
4	PCC	18CS54	Automata theory and Computability	CS / IS	3	--	--	03	40	60	100	3
5	PCC	18CS55	Application Development using Python	CS / IS	3	--	--	03	40	60	100	3
6	PCC	18CS56	Unix Programming	CS / IS	3	--	--	03	40	60	100	3
7	PCC	18CSL57	Computer Network Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL58	DBMS Laboratory with mini project	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting: Civil Engineering Board]	1	--	--	02	40	60	100	1
TOTAL					18	10	04	26	360	540	900	25

Note: PCC: Professional Core, HSMC: Humanity and Social Science.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

B. E. Common to all Programmes			
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)			
SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			



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Introduction to Indian Constitution:

The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. **Fundamental Rights** and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.

Module-2

Union Executive and State Executive:

Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.

Module-3

Elections, Amendments and Emergency Provisions:

Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.

Constitutional special provisions:

Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.

Module-4

Professional / Engineering Ethics:

Scope & Aims of Engineering & **Professional Ethics** - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering

Module-5

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for **Cyber Laws**, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be able to,

- CO 1: Have constitutional knowledge and legal literacy.
- CO 2: Understand Engineering and **Professional ethics and responsibilities** of Engineers.
- CO 3: Understand the the cybercrimes and **cyber laws** for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018



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2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004

B. E. COMMON TO ALL PROGRAMMES			
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)			
SEMESTER – V			
ENVIRONMENTAL STUDIES			
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.			
Module - 3			
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and Air Pollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.			
Module - 4			
Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.			
Module - 5			
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.			



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Course Outcomes: At the end of the course, students will be able to:

- CO1: Understand the principles of ecology and **environmental issues** that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate **ecology** knowledge of a complex relationship between biotic and abiotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.

Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition, 2018
3	Environmental Studies – From Crisis to Cure	RRajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition



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B.E Electronics & Communication Engineering

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: B.E: Electronics & Communication Engineering												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours/Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	BSC	18MAT31	Transform Calculus, Fourier Series and Numerical Techniques	Mathematics	2	2	-	03	40	60	100	3
2	PCC	18EC32	Network Theory		3	2	-	03	40	60	100	4
3	PCC	18EC33	Electronic Devices		3	0	-	03	40	60	100	3
4	PCC	18EC34	Digital System Design		3	0	-	03	40	60	100	3
5	PCC	18EC35	Computer Organization & Architecture		3	0	-	03	40	60	100	3
6	PCC	18EC36	Power Electronics & Instrumentation		3	0	-	03	40	60	100	3
7	PCC	18ECL37	Electronic Devices & Instrumentation Laboratory		-	2	2	03	40	60	100	2
8	PCC	18ECL38	Digital System Design Laboratory		-	2	2	03	40	60	100	2
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for Communication)	HSMC	-	2	-	-	100	-	100	1
		18KAK39/49	Aadaliha Kannada (Kannada for Administration)		-	2	-	-	-			
		OR										
		18CPC39/49	Constitution of India, Professional Ethics and Cyber Law		1	-	-	02	40	60		
TOTAL					17	10		24	420	480	900	24
					OR	OR	04	OR	OR	OR		
					18	08		26	360	540		

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: B.E: Electronics & Communication Engineering												
IV SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	BSC	18MAT41	Complex Analysis, Probability and Statistical Methods	Mathematics	2	2	-	03	40	60	100	3
2	PCC	18EC42	Analog Circuits		3	2	-	03	40	60	100	4
3	PCC	18EC43	Control Systems		3	0	-	03	40	60	100	3
4	PCC	18EC44	Engineering Statistics & Linear Algebra		3	0	-	03	40	60	100	3
5	PCC	18EC45	Signals & Systems		3	0	-	03	40	60	100	3
6	PCC	18EC46	Microcontroller		3	0	-	03	40	60	100	3
7	PCC	18ECL47	Microcontroller Laboratory		-	2	2	03	40	60	100	2
8	PCC	18ECL48	Analog Circuits Laboratory		-	2	2	03	40	60	100	2
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for Communication)	HSMC	-	2	-	-	100	-	100	1
		18KAK39/49	Aadaliha Kannada (Kannada for Administration)		-	2	-	-	-			
		OR										
		18CPC39/49	Constitution of India, Professional Ethics and Cyber Law		1	-	-	02	40	60		
TOTAL					17	10		24	420	480	900	24
					OR	OR	04	OR	OR	OR		
					18	08		26	360	540		



CHILDREN'S EDUCATION SOCIETY (Regd.)
THE OXFORD COLLEGE OF ENGINEERING

(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi.

Approved by A.I.C.T.E. New Delhi.

Recognised by UGC Under Section 2(f)

Bommanahalli, Hosur Road, Bangalore - 560 068.

Ph: 080-61754601/602, Fax: 080 - 25730551

E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: B.E: Electronics & Communication Engineering												
V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	HSMC	18ES51	Technological Innovation Management and Entrepreneurship		3	0	-	03	40	60	100	3
2	PCC	18EC52	Digital Signal Processing		3	2	-	03	40	60	100	4
3	PCC	18EC53	Principles of Communication Systems		3	2	-	03	40	60	100	4
4	PCC	18EC54	Information Theory & Coding		3	-	-	03	40	60	100	3
5	PCC	18EC55	Electromagnetic Waves		3	-	-	03	40	60	100	3
6	PCC	18EC56	Verilog HDL		3	-	-	03	40	60	100	3
7	PCC	18ECL57	Digital Signal Processing Laboratory		-	2	2	03	40	60	100	2
8	PCC	18ECL58	HDL Laboratory		-	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/Environmental [Paper setting: Civil Engineering Board]	1	-	-	02	40	60	100	1
TOTAL					19	8	4	26	360	540	900	25

Note: PCC: Professional Core, HSMC: Humanity and Social Science.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

B. E. COMMON TO ALL PROGRAMMES			
Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V			
ENVIRONMENTAL STUDIES			
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.			
Module - 3			
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and AirPollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.			
Module - 4			
Global Environmental Concerns (Concept, policies and case-studies):Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.			



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Module - 5

Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs.

Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.

Course Outcomes: At the end of the course, students will be able to:

- CO1: Understand the principles of ecology and **environmental issues** that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate **ecology** knowledge of a complex relationship between biotic and abiotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.

Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
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Textbook/s

1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition, 2018
3	Environmental Studies – From Crisis to Cure	R Rajagopalan	Oxford Publisher	2005

Reference Books

1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G. Tyler Miller Jr.	Thomson Brooks / Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition



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B. E. Common to all Programmes Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To <ul style="list-style-type: none"> know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution: The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive: Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions: Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions: Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			



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Professional / Engineering Ethics:

Scope & Aims of Engineering & **Professional Ethics** - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering

Module-5

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for **Cyber Laws**, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be

able to, CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and **Professional ethics and responsibilities** of Engineers.

CO 3: Understand the the cybercrimes and **cyber laws** for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004



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B.E Electrical & Electronics Engineering

Course Structure for B.E- 2017 scheme Regulation

Electrical and Electronics Engineering

Visvesvaraya Technological University, Belagavi

**REGULATIONS GOVERNING
THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech)
UNDER CHOICE BASED CREDIT SYSTEM (CBCS)
Effective from the academic year 2017-18**

Annexure -I

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examination 2017-2018											
Choice Based Credit System (CBCS)											
I SEMESTER B.E./B.Tech. (PHYSICS GROUP)											
Sl. No	Course Code	Course Title	Teaching Department	Board	Teaching Hours /V		Examination			Credits	
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks		Total Marks
1	17MAT11	Engineering Mathematics -I	Mathematics	Basic Science	04	--	03	60	40	100	4
2	17PHY12	Engineering Physics	Physics	Basic Science	04	--	03	60	40	100	4
3	17CIV13	Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	04	--	03	60	40	100	4
4	17EME14	Elements of Mechanical Engineering	Mechanical Engineering	Mechanical Engineering	04	--	03	60	40	100	4
5	17ELE17	Basic Electrical Engineering	E and E Engineering	E and E Engineering	04	--	03	60	40	100	4
6	17WSL16	Workshop Practice	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	01Hour Instruction 02Hour Practical		03	60	40	100	2
7	17PHYL17	Engineering Physics Laboratory	Physics	Basic Science	01Hour Instruction 02Hour Practical		03	60	40	100	2
8	17ENG18	Language - English (Audit Course)	Humanities	--	01	--	--	--	--	--	--
TOTAL					Theory: 21 hours Practical: 06 hours		21	420	280	700	24
II SEMESTER B.E./B.Tech. (CHEMISTRY GROUP)											
1	17MAT21	Engineering Mathematics -II	Mathematics	Basic Science	04	--	03	60	40	100	4
2	17CHE22	Engineering Chemistry	Chemistry	Basic Science	04	--	03	60	40	100	4
3	17PCD23	Programming in C and Data Structures	Any Engineering Department	Computer Science and Engineering	04	--	03	60	40	100	4
4	17CED24	Computer Aided Engineering Drawing	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	02Hour Instruction 04-Hour Practice		03	60	40	100	4
5	17ELN25	Basic Electronics	ECB/EEE/TCE and I	E and C Engineering	04	--	03	60	40	100	4
6	17CPL26	Computer Programming Laboratory	Any Engineering Department	Computer Science and Engineering	01Hour Tutorial 02Hour Practical		03	60	40	100	2
7	17CHEL27	Engineering Chemistry Laboratory	Chemistry	Basic Science	01Hour Tutorial 02Hour Practical		03	60	40	100	2
8	17CIV28	Environmental Studies (Audit Course)	Civil/ Environmental Engineering	Civil Engineering	01Tutorial		--	30	20	50	--
TOTAL					Theory: 21 hours						



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B. E. COMMON TO ALL PROGRAMMES
Choice Based Credit System (CBCS) and Outcome Based Education
(OBE) SEMESTER – V

ENVIRONMENTAL STUDIES

Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02

Module - 1

Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake.
Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.

Module - 2

Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind.
Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.

Module - 3

Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and Air Pollution.
Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.

Module - 4

Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.

Module - 5

Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs.
Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.

Course Outcomes: At the end of the course, students will be able to:

- CO1: Understand the principles of ecology and **environmental issues** that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate **ecology** knowledge of a complex relationship between biotic and abiotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.



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Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition, 2018
3	Environmental Studies– From Crisis to Cure	RRajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

B.E: ELECTRICAL AND ELECTRONICS ENGINEERING
CHOICE BASED CREDIT SYSTEM (CBCS)

IV SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination			Credits	
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks		Total Marks
1	17MAT41	Engineering Mathematics-IV (Core)	Mathematics	04		03	60	40	100	4
2	17EE42	Power Generation and Economics (Core)	EEE	04		03	60	40	100	4
3	17EE43	Transmission and Distribution (Core)	EEE	04		03	60	40	100	4
4	17EE44	Electric Motors (Core)	EEE	04		03	60	40	100	4
5	17EE45	Electromagnetic Field Theory (Core)	EEE	04		03	60	40	100	4
6	17EE46	Operational Amplifiers and Linear ICs (Foundation course)	EEE	03		03	60	40	100	3
7	17EEL47	Electrical Machines Laboratory -2	EEE	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17EEL48	Op- amp and Linear ICs Laboratory	EEE	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
TOTAL				Theory: 24 hours Practical: 06 hours		25	510	340	850	28

I. Kannada/Constitution of India, Professional Ethics and Human Rights: 50% of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.



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B. E. Common to all Programmes Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To <ul style="list-style-type: none"> know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution: The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive: Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions: Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions: Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			
Professional / Engineering Ethics: Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering			
Module-5			



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Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for **Cyber Laws**, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be

able to, CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and **Professional ethics and responsibilities** of Engineers.

CO 3: Understand the the cybercrimes and **cyber laws** for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004



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B.E Mechanical Engineering

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Scheme of Teaching and Examination 2018 – 19											
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)											
(Effective from the academic year 2018 – 19)											
III SEMESTER											
Sl. No	Course and Course Code	Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
				Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CBE Marks	SEE Marks		Total Marks
				L	T	P					
1	BSC	18MAT31	Mathematics	2	2	–	03	40	60	100	3
2	PCC	18ME32	Mechanics of Materials	3	2	–	03	40	60	100	4
3	PCC	18ME33	Basic Thermodynamics	3	0	–	03	40	60	100	3
4	PCC	18ME34	Material Science	3	0	–	03	40	60	100	3
5	PCC	18ME35A or	Metal cutting and forming	3	0	–	03	40	60	100	3
		18ME35B	Metal Casting and Welding								
6	PCC	18ME36A or	Computer Aided Machine Drawing/	1	4	–	03	40	60	100	3
		18ME36B	Mechanical Measurements and Metrology								
7	PCC	18MEL37A or	Material Testing lab	–	2	2	03	40	60	100	2
		18MEL37B	Mechanical Measurements and Metrology lab								
8	PCC	18MEL38A	Workshop and Machine Shop Practice (Consists of Fitting, and Machining)	–	2	2	03	40	60	100	2
		18MEL38B	Foundry, Forging and Welding lab								
9	HSMC	18KVK30/49	Vyavaharika Kannada (Kannada for communication)/	–	2	–	–	100	–	100	1
		18KAK30/49	Adarshita Kannada (Kannada for Administration)								
		OR									
		18CPC39	Constitution of India, Professional Ethics and Cyber Law	1	–	–	02	40	60		
TOTAL				17	10	04	24	420	480	900	24
				OR	OR	OR	OR	OR	OR		
				19	14	04	26	360	540		

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examination 2018 – 19											
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)											
(Effective from the academic year 2018 – 19)											
V SEMESTER											
Sl. No	Course and Course code	Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
				Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CBE Marks	SEE Marks		Total Marks
				L	T	P					
1	PCC	18ME51	Management and Economics	2	2	–	03	40	60	100	3
2	PCC	18ME52	Design of Machine Elements I	3	2	–	03	40	60	100	4
3	PCC	18ME53	Dynamics of Machines	3	2	–	03	40	60	100	4
4	PCC	18ME54	Turbo Machines	3	–	–	03	40	60	100	3
5	PCC	18ME55	Fluid Power Engineering	3	–	–	03	40	60	100	3
6	PCC	18ME56	Operations Management	3	–	–	03	40	60	100	3
7	PCC	18MEL57	Fluid Mechanics/Machines lab	–	2	2	03	40	60	100	2
8	PCC	18MEL58	Energy Conversion Lab	–	2	2	03	40	60	100	2
9	HSMC	18CTV59	Civil/ Environmental	1	–	–	02	40	60	100	1
			[Paper setting: Civil Engineering Board]								
TOTAL				18	10	04	26	360	540	900	25

Note: PCC: Professional Core, HSMC: Humanity and Social Science.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.



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**B. E. Common to all Programmes
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
SEMESTER - III**

CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)

Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02

Course Learning Objectives: To

- know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, **fundamental rights**, directive principles, and the duties of citizens
- Understand engineering ethics and their responsibilities; identify their individual roles and **ethical responsibilities towards society**.
- Know about the cybercrimes and **cyber laws** for cyber safety measures.

Module-1

Introduction to Indian Constitution:

The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. **Fundamental Rights** and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.

Module-2

Union Executive and State Executive:

Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.

Module-3

Elections, Amendments and Emergency Provisions:

Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.

Constitutional special provisions:

Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.

Module-4

Professional / Engineering Ethics:

Scope & Aims of Engineering & **Professional Ethics** - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering

Module-5



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Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for **Cyber Laws**, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be

able to, CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and **Professional ethics and responsibilities** of Engineers.

CO 3: Understand the the cybercrimes and **cyber laws** for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004



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**B. E. COMMON TO ALL PROGRAMMES
Choice Based Credit System (CBCS) and Outcome Based Education
(OBE) SEMESTER – V**

**ENVIRONMENTAL
STUDIES**

Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02

Module - 1

Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake.
Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.

Module - 2

Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind.
Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.

Module - 3

Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and Air Pollution.
Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.

Module - 4

Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.

Module - 5

Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs.
Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.

Course Outcomes: At the end of the course, students will be able to:

- CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.



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Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition, 2018
3	Environmental Studies– From Crisis to Cure	RRajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition



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B.E. Mechanical Engineering

III SEMESTER

Sl. No	Subject Code	Title	Teaching Department	Teaching Hours /Week			Examination				Credits
				Lecture	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks	Total Marks	
1	17MAT31	Engineering Mathematics – III	Maths	04			03	60	40	100	4
2	17ME32	Materials Science	ME	04			03	60	40	100	4
3	17ME33	Basic Thermodynamics	ME	03	02		03	60	40	100	4
4	17ME34	Mechanics of Materials	ME	03	02		03	60	40	100	4
5	17ME35A/	Metal Casting and Welding	ME	04			03	60	40	100	4
	17ME35B	Machine Tools and Operations	ME								
6	17ME36 A/	Computer Aided Machine Drawing	ME	01		4	03	60	40	100	3
	17ME36B	Mechanical Measurements and Metrology	ME	03							
7	17MEL37A/	Materials Testing Lab/	ME	1		2	03	60	40	100	2
	17MEL37B	Mechanical Measurements and Metrology Lab	ME								
8	17MEL38A/	Foundry and Forging Lab	ME	1		2	03	60	40	100	2
	17MEL38B	Machine Shop/	ME								
9	17KL/CPH39 /49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	1			01	30	20	50	1
TOTAL				22/24	04	08/04		510	340	850	28



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B.E. Mechanical Engineering

V SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week			Examination				Credits
			Lecture	Tutorial	Practical	Duration (Hours)	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15ME51	Management and Engineering Economics	3	2	0	03	80	20	100	4
2	15ME52	Dynamics of Machinery	3	2	0	03	80	20	100	4
3	15ME53	Turbo Machines	3	2	0	03	80	20	100	4
4	15ME54	Design of Machine Elements - I	3	2	0	03	80	20	100	4
5	15ME55X	Professional Elective-I	3	0	0	03	80	20	100	3
6	15ME56X	Open Elective-I	3	0	0	03	80	20	100	3
7	15ME1.57	Fluid Mechanics & Machinery Lab	1	0	2	03	80	20	100	2
8	15ME1.58	Energy Lab	1	0	2	03	80	20	100	2
TOTAL			21	06	04		640	160	800	26

Professional Elective-I		Open Elective-I	
15ME551	Refrigeration and Air-conditioning	15ME561	Optimization Techniques
15ME552	Theory of Elasticity	15ME562	Energy and Environment
15ME553	Human Resource Management	15ME563	Automation and Robotics
15ME554	Non Traditional Machining	15ME564	Project Management

- 1. Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.
- 2. Professional Elective:** Elective relevant to chosen specialization/ branch
- 3. Open Elective:** Electives from other technical and/or emerging subject areas.



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MANAGEMENT AND ENGINEERING ECONOMICS

Course	Code	Credits	L-T-P	Assessment		Exam Duration
				SEE	CIA	
Management And Engineering Economics	15ME51	04	3-2-0	80	20	3Hrs

MODULE – 1

Management: Introduction - Meaning - nature and characteristics of Management, Scope and Functional areas of management - Management as science, art of profession - Management & Administration - Roles of Management, Levels of Management, Development of Management Thought- early management approaches – Modern management approaches.

Planning: Nature, importance and purpose of planning process Objectives -Types of plans (Meaning Only) - Decision making Importance of planning - steps in planning & planning premises - Hierarchy of plans. **10 Hours**

MODULE - 2

Organizing And Staffing: Nature and purpose of organization Principles of organization - Types of organization - Departmentation Committees-Centralization Vs Decentralization of authority and responsibility - Span of control - MBO and MBE (Meaning Only) Nature and importance of staffing--:Process of Selection & Recruitment (in brief).

Directing & Controlling: Meaning and nature of directing Leadership styles, Motivation Theories, Communication - Meaning and importance - coordination, meaning and importance and Techniques of Co Ordination. Meaning and steps in controlling - Essentials of a sound control system - Methods of establishing control (in brief) **10 Hours**

MODULE -3

Introduction: Engineering and economics, Problem solving and decision making, Laws of demand and supply, Difference between Microeconomics & Macroeconomics, equilibrium between demand & supply, elasticity of demand, price elasticity, income elasticity. Law of Returns, Interest and interest factors, simple and compound interest, Cash flow diagrams, personal loans and EMI payment calculation with flexible interest rates, Discussion and problems **10 Hours**

MODULE -4

Present, future and annual worth and rate of returns: Basic present worth comparisons, Present worth-equivalence, Assets with unequal lives and infinite lives, future worth comparisons, payback comparisons, Equivalent annual worth comparisons, situations for annual worth comparisons. Asset life, Rate of return, minimum acceptable rate of return, IRR anomalies and misconceptions, Cost of capital, comparisons of all present future and annual worth with IRR, product costing, Discussions and problems **10 Hours**

MODULE -5

Costing and depreciation: Components of costs, estimation of selling price, marginal cost, first cost, all kinds of overheads, indirect cost estimation with depreciation, mensuration and estimation of material cost, cost estimation of mechanical process, idling time. Product costing (approaches to product costing), causes of depreciation, methods of computing depreciation charges, straight line method, declining balance method, sum of years method, sinking fund method, service output methods, taxation concepts, personal income taxes and corporate taxes, Discussions and problems. **10 Hours**

Course outcomes

- On completion of this subject students will be able to
1. Understand needs, functions, roles, scope and evolution of Management
 2. Understand importance, purpose of Planning and hierarchy of planning and also analyze its types
 3. Discuss Decision making, Organizing, Staffing, Directing and Controlling
 4. Select the best economic model from various available alternatives
 5. Understand various interest rate methods and implement the suitable one.
 6. Estimate various depreciation values of commodities
 7. Prepare the project reports effectively.

TEXT BOOKS

1. Principles of Management by Tripathy and Reddy
2. Mechanical estimation and costing, T.R. Banga & S.C. Sharma, 17th edition 2015
3. Engineering Economy, Riggs J.L. McGraw Hill, 2002
4. Engineering Economy, Thuesen H.G. PHI, 2002

REFERENCE BOOKS

1. Management Fundamentals- Concepts, Application, Skill Development - RobersLusier - Thomson
2. Basics of Engineering Economy, Leland Blank & Anthony Tarquin, McGraw Hill Publication (India) Private Limited
3. Engineering Economics, R.Paneerselvam, PHI publication
4. Fundamentals of Management: Essential Concepts and Applications, Pearson Education, Robbins S.P. and Decenzo David A.
5. Economics: Principles of Economics, N Gregory Mankiw, Cengage Learning
6. Modern Economic Theory, By Dr. K. K. Dewett& M. H. Navalar, S. Chand Publications



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ENERGY AND ENVIRONMENT
(OPEN ELECTIVE - I)

Course	Code	Credits	L-T-P	Assessment		Exam Duration
				SEE	CIA	
Energy And Environment	15ME562	03	3-0-0	80	20	3Hrs

Course Objectives

1. Understand energy scenario, energy sources and their utilization
2. Learn about methods of energy storage, energy management and economic analysis
3. Have proper awareness about environment and eco system.
4. Understand the environment pollution along with social issues and acts.

Module - I

Basic Introduction to Energy: Energy and power, forms of energy, primary energy sources, energy flows, world energy production and consumption, Key energy trends in India: Demand, Electricity, Access to modern energy, Energy production and trade, Factors affecting India's energy development: Economy and demographics Policy and institutional framework, Energy prices and affordability, Social and environmental aspects, Investment. **8 Hours**

Module - II

Energy storage systems: Thermal energy storage methods, Energy saving, Thermal energy storage systems

Energy Management: Principles of Energy Management, Energy demand estimation, Energy pricing

Energy Audit: Purpose, Methodology with respect to process Industries, Characteristic method employed in Certain Energy Intensive Industries

Economic Analysis: Scope, Characterization of an Investment Project

10 Hours

Module - III

Environment: Introduction, Multidisciplinary nature of environmental studies- Definition, scope and importance, Need for public awareness.

Ecosystem: Concept, Energy flow, Structure and function of an ecosystem. Food chains, food webs and ecological pyramids, Forest ecosystem, Grassland ecosystem, Desert ecosystem and Aquatic ecosystems, Ecological succession.

8 Hours

Module - IV

Environmental Pollution: Definition, Cause, effects and control measures of - Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution and Nuclear hazards, Solid waste Management, Disaster management Role of an individual in prevention of pollution, Pollution case studies.

8 Hours



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Module – V

Social Issues and the Environment: Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies. Wasteland reclamation, Consumerism and waste products, Environment Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act, Issues involved in enforcement of environmental legislation.

8 Hours

Course Outcomes

At the end of the course, the student will be able to:

1. Summarize the basic concepts of energy, its distribution and general Scenario.
2. Explain different energy storage systems, energy management, audit and economic analysis.
3. Summarize the environment eco system and its need for awareness.
4. Identify the various types of environment pollution and their effects.
5. Discuss the social issues of the environment with associated acts.

TEXT BOOKS:

1. Textbook for Environmental Studies For Undergraduate Courses of all Branches of Higher Education by University grant commission and Bharathi Vidyapeeth Institute of environment education and Research ,Pune
2. De, B. K., Energy Management audit & Conservation, 2nd Edition, Vrinda Publication, 2010.

REFERENCE BOOKS:

1. Turner, W. C., Doty, S. and Truner, W. C., Energy Management Hand book, 7th edition, Fairmont Press, 2009.
2. Murphy, W. R., Energy Management, Elsevier, 2007.
3. Smith, C. B., Energy Management Principles, Pergamum, 2007
4. Environment pollution control Engineering by C S rao, New Age Inyernational, 2006, reprint 2015, 2nd edition
5. Environmental studies, by Benny Joseph, Tata McGraw Hill, 2008, 2nd edition.

E- Learning

- India Energy Outlook 2015(www.iea.org/.../IndiaEnergyOutlook_WEO2015.pdf)
- Open courseware



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**PROJECT MANAGEMENT
(OPEN ELECTIVE - I)**

Course	Code	Credits	L-T-P	Assessment		Exam Duration
				SEE	CIA	
Project Management	15ME564	03	3-0-0	80	20	3Hrs

MODULE - 1

Introduction: Definition of project, characteristics of projects, understand projects, types of projects, scalability of project tools, project roles

Project Selection And Prioritization – Strategic planning process, Strategic analysis, strategic objectives, portfolio alignment – identifying potential projects, methods of selecting projects, financial mode / scoring models to select projects, prioritizing projects, securing and negotiating projects. **08 Hours**

MODULE - 2

Planning Projects: Defining the project scope, Project scope checklist, Project priorities, Work Breakdown Structure (WBS), Integrating WBS with organisation, coding the WBS for the information system.

Scheduling Projects: Purpose of a project schedule, historical development, how project schedules are limited and created, develop project schedules, uncertainty in project schedules, Gantt chart. **08 Hours**

MODULE - 3

Resourcing Projects: Abilities needed when resourcing projects, estimate resource needs, creating staffing management plan, project team composition issues, Budgeting Projects: Cost planning, cost estimating, cost budgeting, establishing cost control.

Project Risk Planning: Risk Management Planning, risk identification, risk analysis, risk response planning, Project Quality Planning and Project Kickoff: Development of quality concepts, project quality management plan, project quality tools, kickoff project, baseline and communicate project management plan, using Microsoft Project for project baselines. **08 Hours**

MODULE - 4

Performing Projects: Project supply chain management: - Plan purchasing and acquisitions, plan contracting, contact types, project partnering and collaborations, project supply chain management.

27

Project Progress and Results: Project Balanced Scorecard Approach, Internal project, customer, financial issues, Finishing the project: Terminate project early, finish projects on time, secure customer feedback and approval, knowledge management, perform administrative and contract closure. **08 Hours**

MODULE - 5

Network Analysis

Introduction, network construction - rules, Fulkerson's rule for numbering the events, AON and AOA diagrams; Critical path method (CPM) to find the expected completion time of a project, floats; PERT for finding expected duration of an activity and project, determining the probability of completing a project, predicting the completion time of project; crashing of simple projects. **10 Hours**

Course Outcomes

On completion of the course the student will be able to

1. Understand the selection, prioritization and initiation of individual projects and strategic role of project management.
2. Understand the work breakdown structure by integrating it with organization.
3. Understand the scheduling and uncertainty in projects.
4. Students will be able to understand risk management planning using project quality tools.
5. Understand the activities like purchasing, acquisitions, contracting, partnering and collaborations related to performing projects.
6. Determine project progress and results through balanced scorecard approach
7. Draw the network diagram to calculate the duration of the project and reduce it using crashing.

TEXT BOOKS

1. Project Management, Timothy J Kloppenborg, Cengage Learning, Edition 2009.
2. Project Management, A systems approach to planning scheduling and controlling by Harold Kerzner, CBS publication.
3. Project Management by S Choudhury, Mc Graw Hill Education (India) Pvt. Ltd. New Delhi, 2016

REFERENCE BOOKS

1. Project Management, Pennington Lawrence, Mc Graw hill
2. Project Management, A Moder Joseph and Phillips New York Van Nostrand, Reinhold.
3. Project Management, Bhavesh M. Patal, Vikas publishing House,



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B.E Biotechnology

B. E. Common to all Programmes			
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)			
SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> • know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens • Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. • Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution:			
The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive:			
Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions:			
Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions:			
Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			



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Professional / Engineering Ethics:

Scope & Aims of Engineering & **Professional Ethics** - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering

Module-5

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for **Cyber Laws**, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be

able to, CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and **Professional ethics and responsibilities** of Engineers.

CO 3: Understand the the cybercrimes and **cyber laws** for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004



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B. E. COMMON TO ALL PROGRAMMES			
Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V			
ENVIRONMENTAL STUDIES			
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.			
Module - 3			
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and AirPollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.			
Module - 4			
Global Environmental Concerns (Concept, policies and case-studies):Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.			
Module - 5			
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.			
Course Outcomes: At the end of the course, students will be able to:			
<ul style="list-style-type: none"> • CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale, • CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment. • CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components. • CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues. 			



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Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition 2018
3	Environmental Studies– From Crisis to Cure	RRajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition

BIOTECHNOLOGY FOR SUSTAINABLE ENVIRONMENT

[As per Choice Based Credit System (CBCS) scheme] SEMESTER

–V

Sub.Code:	15BT563	I.A Marks:	20
Hours/week:	3	Exam Hrs. :	4
Total Hours:	40	Exam Marks :	80

CREDITS– 03

Course objectives:

This course will enable student to learn

- The underlying concepts of Environment and its pollution.
- Treatment of wastewater and solid waste.
- The importance of Biofuels against conservative fuels

MODULE– 1



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WATER POLLUTION AND TREATMENT OF		
WASTEWATER: Water as Resource, Drinking water quality, water consumption standards, Types of Water Pollutants and sources, State and central wastewater quality and its various discharge standards. Wastewater Sampling and Characteristics - Physical, Chemical and Biological characteristics of wastewater: Solving numerical on the sampling, characteristics and estimation of wastewater flow rates. Biotechnological approach for water purification		
MODULE-2		
TERTIARY/ADVANCED WASTEWATER TREATMENT: Secondary/Biological treatment process, aerobic/anaerobic attached and suspended growth process, Sludge treatment & Disposal. Ultrafiltration, Filtration, Adsorption on Activated Carbon, Ion Exchange, Reverse Osmosis, Electrodialysis cell. Wastewater treatment in Industries: Paper and Pulp, distillery, Leather, Food processing such as dairy and fruit processing and Textile processing.		L4
MODULE-3		
AIR POLLUTION AND NOISE POLLUTION Sources, Classification, Properties of air pollutants, and Effects of air pollution on health, vegetation and materials. Air pollution sampling: Ambient sampling and Stacks sampling, Analysis of air pollutants, Control methods and Equipment for particulates and gaseous pollutants, Application to Industries: Thermal power plants, Metallurgical and Cement industries. Sources, Effects of Noise, Equipment for Noise Measurement, and Approaches for Noise Control		L2, L3, L4
MODULE-4		
BIOFUELS: Renewable and non-renewable resources. Conventional fuels and their environmental impacts. Animal oils. Modern fuels and their environmental impacts. Biotechnological inputs in producing good quality natural fibres. Plant sources like <i>Jatropha</i> , <i>Pongamia</i> etc. Waste as an energy core, energy recovery systems for urban waste, technology evaluation, concept of gasification of wastes with molten salt to produce low-BTU gas; pipeline gas from solid wastes by syngas recycling process; conversion of feedlot wastes into pipeline gas; fuels and chemicals from crops, production of oil from wood waste, fuels from wood waste, methanol production from organic wastes		L



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MODULE- 5		
<p>SOLIDWASTEMANAGEMENT: Definitions, Characteristics and perspectives, Types of solid wastes, Sources of Solid waste, Properties of solid waste – Numerical problems, Solid waste Management – An Overview:- Material flow in society, Reduction in raw material usage, Solid waste generation, and reuse with materials, energy recovery. Solid waste management through Biotechnological processes involving Hazardous wastes, Biomedical wastes, Dairy wastes, Pulp industry wastes, Textile industry wastes, leather industry wastes and pharmaceutical industry wastes, petroleum waste treatment</p>		L1, L2, L3
<p>Course outcomes: After studying this course, students will be able to:</p> <ul style="list-style-type: none"> • Apply reasoning to identify the components of environmental ecosystems and effect of pollutant on environment. • Characterize the various parameters for treatment of water, wastewater and solid waste from their sources to provide valid conclusions. 		
<ul style="list-style-type: none"> • Understand the impact of recovery, recycle of the useful resources from the wastes by adopting advanced techniques to demonstrate the need for sustainable development. • Identify and demonstrate the knowledge to use suitable equipment for abatement and control of air & noise pollution 		
<p>Graduate Attributes (as per NBA):</p> <ul style="list-style-type: none"> • Design / development of solutions (environmental) • Engineer and society • Professional Ethics. • Lifelong learning. • Problem analysis 		
<p>Question paper pattern:</p> <ul style="list-style-type: none"> • The question paper will have ten questions. • Each full question consists of 16 marks. • There will be 2 full questions (with a maximum of four sub questions) from each module. • Each full question will have sub questions covering all the topics under a module. • The students will have to answer 5 full questions, selecting one full question from each module. 		



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TEXT BOOKS

6. Environmental Engineering by Howard S. Peavey, Donald R. Rowe, George Techobanolous, McGraw-Hill International Editions.
7. Wastewater Engineering – Treatment, Disposal and Reuse, METCALF AND EDDY, INC. 3rd Edition Tata McGraw-Hill Publishing Company Limited.
8. Environmental Biotechnology by Foster C.F., John ware D.A., Ellis Horwood Limited.
9. ENVIRONMENTAL BIOTECHNOLOGY by INDU SHEKHAR THAKUR, IK Publishers.
10. Industrial Microbiology by L.E. Casida, Willey Eastern Ltd. Industrial Microbiology by Prescott & Dunn, CBS Publishers.

REFERENCE BOOKS

6. Fuels from Waste by Larry Anderson and David A Tillman, Academic Press.
7. Bioprocess Technology- fundamentals and applications, S O Enfors& L Hagstrom, RIT, Stockholm.
8. Comprehensive Biotechnology by M.Y. Young (Eds.), Pergamon Press.
9. Biotechnology, Economic & Social Aspects by E.J. Dasilva, C Ratledge& A Sasson, Cambridge Univ. Press, Cambridge.
10. Environmental Biotechnology by Pradipta Kumar Mahopatra.

BIO-BUSINESS AND ENTREPRENEURSHIP

[AsperChoiceBasedCreditSystem(CBCS)scheme] SEMESTER-VI

Sub.Code:	15BT61	I.AMarks:	20
Hours/week:	4	ExamHrs.:	3
TotalHours:	50	ExamMarks:	80

CREDITS-04

Course objectives: This course will enable students to learn about the project management, entrepreneurship and IPR.

MODULES	TEACHING HOURS	REVISED BLOOM'S TAXONOMY (RBT) LEVEL
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MODULE-1



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<p>BIOENTERPREUNERSHIP</p> <p>Introduction to bio-business, from the Indian context, SWOT analysis of bio-business. Concept of Entrepreneurship- Evolution of Entrepreneurship, Development of Entrepreneurship; Stages in entrepreneurial process; Role of entrepreneurs in Economic Development; Entrepreneurship in India; Entrepreneurship- its barriers. Small scale industries: Definition; Characteristics; Need and rationale; Objectives; Scope; Market Feasibility Study; Technical Feasibility Study; Financial Feasibility Study & Social Feasibility Study. Global bio business and industry future trends.</p>	<p>10</p>	<p>L1,L2</p>
<p>MODULE-2</p>		
<p>ENTREPRENEURSHIP OPPORTUNITY IN AGRIBIOTECHNOLOGY</p> <p>Business opportunity, Essential requirement, marketing, strategies, schemes, challenges and scope- with case study on Plant cell and tissue culture technique, polyhouse culture. Herbal bulk drug production, Nutraceuticals, value added herbal products. Bioethanol production using Agriwaste, Algal source.</p>	<p>10</p>	<p>L1,L2,</p>
<p>Integration of system biology for agricultural applications. Biosensor development in Agrimanagement</p>		
<p>MODULE-3</p>		
<p>ENTREPRENEURSHIP OPPORTUNITY IN INDUSTRIAL BIOTECHNOLOGY</p> <p>Business opportunity, Essential requirement, marketing strategies, schemes, challenges and scope- with case study- Pollution monitoring and Bioremediation for Industrial pollutants, Pesticides, Herbicides etc. Integrated compost production- microbe enriched compost.</p> <p>Biopesticide/insecticide production. Fermented products- probiotic and prebiotics. Stem cell production, stem cell bank, contract research. Production of monoclonal/ polyclonal antibodies, Single cell protein and secondary metabolite production Contract research in microbial genomics</p>	<p>10</p>	<p>L1,L2,L3</p>
<p>MODULE-4</p>		



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<p>PROJECTMANAGEMENT,INTELLECTUALPROPERTY, TECHNOLOGY MANAGEMENT ANDSTARTUPSCHMES</p> <p>Building Biotech business challenges in Indian context-biotechpartners(BICEPS,BIRAC,DBT,Incubationcenters. Etc.), operational biotech parks in India.IndianCompanyactforBiobusiness-schemesandsubsidie</p> <p>MeaningofProject;ProjectIdentification;ProjectSelection;ProjectReport;NeedandSignificanceofReport; Contents; Formulation; Guidelines by PlanningCommission for Project report; Network Analysis;</p> <p>ErrorsofProjectReport;ProjectAppraisal.Identificationofbusinessopportunities:MarketFeasibilityStudy;TechnicalFeasibilityStudy;Financial FeasibilityStudy&SocialFeasibilityStudy.</p> <p>Patent expiry and Entrepreneurship opportunity, PrinciplesofTechnologyleasing,licensingandtransfer,StartupschemesinIndiangovernment,Businessincubationsupportschemes,Successfulstartups-casestudy.</p>	<p>10</p>	<p>L1,L2</p>
<p>MODULE-5</p>		
<p>Regulatoryaffairs,Bioethics&Bio-safety:</p> <p>Regulatory affairs in Bio business-regulatory bodies andtheir regulations (ex.FDA, EU, DSIR, AYUSH, FSSAletc.,)</p> <p>Publiceducationoftheprocessofbiotechnologyinvolvedin generating new forms of life for informed decision-making. Ethical concerns of biotechnology research andinnovation- Interference with nature, fear of unknown,unequaldistributionofrisks.</p> <p>Rational vs. subjective perceptions of risks and benefits,relationshipbetweenrisk,hazard,exposureandsafeguards. biosafety concerns at the level of individuals,institutions, society, region, country and the world. TheCartagenaprotocolonbiosafety.Biosafetymanagement.</p>	<p>10</p>	<p>L1,L2</p>
<p>Courseoutcomes:</p> <p>Afterstudyingthiscourse,studentswillbeableto:</p> <ul style="list-style-type: none"> • Identifypotentialentrepreneurshipopportunityinbiotechnology • Effectivelyplanaprojectwithaworkplan,budgetandschedule • Assessthegovernmentstrategiesandschemesforstartups • Understandtheconceptsofbioethics,biosafetyandRegulatorynorms 		



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Graduate Attributes (as per NBA):

- Engineering knowledge
- Conduct investigation of complex problem
- Engineer and society
- Environment and sustainability
- Professional Ethics
- Project management and finance
- Lifelong learning.

Question paper pattern:

- The question paper will have ten questions.
- Each full question consists of 16 marks.
- There will be 2 full questions (with a maximum of four subquestions) from each module.
- Each full question will have subquestions covering all the topics under a module.
- The students will have to answer 5 full questions, selecting one full question from each module.

TEXTBOOKS

4. Principles of Management – P.C. Tripathi, P.N. Reddy – Tata McGraw Hill,
5. Entrepreneurship Development – S.S. Khanka – S. Chand & Co.
6. Practical Approach to IPR by Rachana Singh Puri, IK Intl. Ltd.

REGULATORY AFFAIRS IN BIOTECH INDUSTRY

[As per Choice Based Credit System (CBCS) scheme] SEMESTER – VIII

Sub.Code:	15BT82	I.A Marks:	20
Hours/week:	4	Exam Hrs. :	3
Total Hours:	50	Exam Marks :	80

CREDITS – 04

Course objectives: The objective of this course is to educate students about regulatory rules and guidelines that specify parameters of the safety and quality standards in the biotech industry.

MODULES	TEACHING HOURS	REVISED BLOOM'S TAXONOMY (RBT) LEVEL
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MODULE – 1



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<p>INTRODUCTION</p> <p>Validation and Regulatory Affairs in Bio (Pharmaceutical) Manufacturing: An Introduction to FDA Operations & Industry Compliance Regulations, The Fundamentals of Regulatory Compliance with respect to Good Clinical Practice (GCP), Good Manufacturing Practice (GMP) & Good Laboratory Practice (GLP). An Introduction to the Basic Concepts of Process Validation & how it Differs from Qualification (IQ, OQ & PQ) Procedures, A Review of Prospective, Concurrent, Retrospective Validation & Revalidation including the use of Statistical Process Control (SPC) Techniques. ISO 9000 Series & International Harmonization & their effect upon GMP's,</p>	<p>10</p>	<p>L1, L2, L3</p>
<p>MODULE –2</p>		
<p>VALIDATION</p> <p>Validation of Water & Thermal Systems, including HVAC Facilities & Cleaning Validation. Validation of Active Pharmaceutical Ingredients (APIs) & Aseptic Processes. Validation of Non-Sterile Processes (used in the manufacture of Solids, Liquids, & Semisolid Dosage Forms). Overview of method evolution, FDA and ICH guidelines, Development and validation, Basic statistical concepts, Outliers, Specificity: sample preparation, Specificity: separations, Specificity: detectors, Linearity, Accuracy, Precision, Limits of detection (LOD) and quantification (LOQ), Minimum detectable amount (MDA), Sample stability and method robustness, Window diagrams,</p>	<p>10</p>	<p>L1, L2, L3</p>
<p>System suitability, Statistical process control for HPLC, Sustainable validation, Troubleshooting out-of-control systems, Case studies</p>		
<p>MODULE – 3</p>		



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<p>STANDARDS</p> <p>Introduction, ISO9000Seriesof Standards,ManagementResponsibility,QualitySystem,ContractReview,DesignControl,DocumentandDataControl,PreservationandDelivery,ControlofQualityRecords,InternalQualityAudits,Training,Serviceing,StatisticalTechniques,ISO-9001-2000,Scope,NormativeReference,TermsandDefinitions,QualityManagement,System,DocumentsRequirements,Management'sResponsibility,ResourceManagement,Infrastructure,ProductRealization,Measurement,AnalysisandImprovement,ISO-14001,EnvironmentalManagement Systems.</p>	<p>10</p>	<p>L1,L2,L3</p>
<p>MODULE – 4</p>		
<p>QUALITYANDIMPLEMENTATION</p> <p>TerminologyRelatingtoQuality,QualityRequirement,CustomerSatisfaction,Capability;TermsRelatingtoManagement,ManagementSystem,QualityManagementSystem,QualityPolicy,QualityObjectives,QualityPlanning,QualityControl,QualityAssurance,QualityImprovement,ContinualImprovement,Effectiveness,Efficiency,TermsrelatingtoCharacteristics,QualityCharacteristics;TermsRelatingtoConformity,Non-Conformity, Defect, Preventive Action, Corrective Action,Correction, Rework, Repair, Scrap, Concession, DeviationPermit,Release;ObjectiveEvidence,Inspection,Test,MetrologicalConfirmation.QualitySystem,ContractReview,DesignControl, DocumentandDataControl,Purchasing, Control of Customer Supplied Product, ProductIdentification and Traceability, Process Control, Inspectionand Testing, Final Inspection and Testing, Inspection andTest Status, Handling, Storage, Packaging, Preservation andDelivery,ControlofQualityRecords,InternalQualityAudits,Training,Serviceing,StatisticalTechniques</p>	<p>10</p>	<p>L1,L2,L3,</p>
<p>MODULE – 5</p>		
<p>QUALITYMANAGEMENT</p> <p>The development of regulatory requirements for validation,The V model and Life Cycle model approach to validationanddocumentation,RiskAnalysisTechniques:ImpactAssessment; Failure Mode and Effects Analysis (FMEA),ValidationMasterPlans,CommissioningandQualification,</p>	<p>10</p>	<p>L1,L2,L3</p>



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Process Validation, Routine validation and revalidation, Contamination Control, Risk Management in the Pharmaceutical Industry, Solid Dose Manufacture Principles and Practices, Liquid and Cream Manufacture Principles and Practices, Good Laboratory Practices (for Non-Clinical Laboratories), Computer Systems Validation Principles and Practices, Good Aseptic Practices and Sterile Products, Clinical Trials Quality Assurance Management, GxP and Quality Auditing Practices, Pharmaceutical Engineering – Facility, Equipment and Process Design, Fundamentals of Process Analytical Technology, Quality and Continuous Improvement in the Biotech Industry.

COURSE OUTCOMES:

After studying this course, students will be able to:

- Outline the importance of the quality and compliance in the biotech industry
- Comprehend the various regulatory guidelines and rules as well as the organizations governing the same.

Graduate Attributes (as per NBA):

- Engineer and society
- Professional Ethics.
- Lifelong learning.

Question paper pattern:

- The question paper will have ten questions.
- Each full question consists of 16 marks.
- There will be 2 full questions (with a maximum of four subquestions) from each module.
- Each full question will have subquestions covering all the topics under a module.
- The students will have to answer 5 full questions, selecting one full question from each module.

TEXTBOOKS

- Pharmaceutical Process Validation by Robert Nash and Alfred Wachter, Marcel Dekker.
- Good Manufacturing Practices for Pharmaceuticals: A Plan for Total Quality Control From Manufacture to Consumer, Sidney J. Willig, Marcel Dekker.
- Validation of Pharmaceutical Processes: Sterile Products, Frederick J. Carlton (Ed.) and James Agalloco (Ed.), Marcel Dekker.
- Validation Standard Operating Procedures: A Step by Step Guide for Achieving Compliance in the Pharmaceutical, Medical Device, and Biotech Industries, Syed Imtiaz Haider, Saint Lucie Press.
- Pharmaceutical Biotechnology by SP Vyas and VK Dixit, CBS Publishers.



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REFERENCEBOOKS

- Pharmaceutical Equipment Validation: The Ultimate Qualification Handbook, Phillip A. Cloud, Interpharm Press.
- Commissioning and Qualification, ISPE Pharmaceutical Engineering Baseline Guides Series.
- ICH guideline Q6B, Freelance Publishing.

ENVIRONMENTAL BIOTECHNOLOGY

[As per Choice Based Credit System (CBCS) scheme] SEMESTER –VIII

Sub.Code:	15BT833	I.A.Marks:	20
Hours/week:	3	Exam Hrs. :	3
Total Hours:	40	Exam Marks :	80

CREDITS– 03

Course objectives: This objective of this course is to understand the basic concepts of environmental biotechnology.

MODULE– 1

INTRODUCTION TO ENVIRONMENTAL POLLUTANTS

Water, Soil and Air: their sources and effects. Removal of Specific Pollutants: Sources of Heavy Metal Pollution, Microbial Systems for Heavy Metal Accumulation, Biosorption & detoxification mechanisms.

08

L1,L2,L3

MODULE–2

MICROBIOLOGY AND BIOCHEMISTRY OF WASTEWATER TREATMENT

Biological Treatment of anaerobic and aerobic; methanogenesis, methanogenic, acetogenic, and fermentative bacteria- technical process and conditions; Use of Genetically Engineered Organisms. emerging biotechnological processes in waste - water treatment; Applications include treatment of municipal and industrial wastewaters,

08

L2,L3,L4

MODULE– 3



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<p>BIODEGRADATION OF XENOBIOTIC COMPOUNDS & BIOREMEDIATION:</p> <p>Xenobiotic compounds: Aliphatic, Aromatics, Polyaromatic Hydrocarbons, Polycyclic aromatic compounds, Pesticides, Surfactants and microbial treatment of oil pollution. Introduction to Bioremediation, Types of</p>	<p>08</p>	<p>L2, L3, L4</p>
<p>Bioremediation, Bioremediation of surface soils and sludges, Bioremediation of subsurface material, In situ technologies, Ex-situ technologies, Phytoremediation,</p>		
<p>MODULE – 4</p>		
<p>BIOTRANSFORMATIONS & BIOCATALYSTS:</p> <p>Basic organic reaction mechanism - Common prejudices against Enzymes - Advantages & Disadvantages of Biocatalysts - Isolated Enzymes versus whole cell systems - Mechanistic Aspects and Enzyme Sources - Biocatalytic Application - Catalytic Antibodies; Stoichiometry, kinetics, and thermodynamics of microbial processes for the transformation of environmental contaminants.</p>	<p>08</p>	<p>L1, L2, L3, L4</p>
<p>MODULE – 5</p>		
<p>BIOOXIDATION & MICROBIAL LEACHING:</p> <p>Biooxidation – Direct and Indirect Mechanisms – Biooxidation Kinetics; Bacterial oxidation of Sphalerite, Chalcopyrite and Pyrite.; Extraction of metals from ores; Recovery of metals from solutions; Microbes in petroleum extraction; Microbial desulfurization of coal, gene cloning - use of genetically altered microorganisms for field biodegradation of hazardous materials.</p>	<p>08</p>	<p>L1, L2, L3</p>
<p>Course outcomes:</p> <p>After studying this course, students will be able to:</p> <ul style="list-style-type: none"> • Understand the role of various environmental pollutants, biooxidation, biotransformation • Explain the involvement of microbes in wastewater treatment, chemicals 		



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Graduate Attributes (as per NBA):

- Engineer and society
- Professional Ethics.
- Lifelong learning.

Question paper pattern:

- The question paper will have ten questions.
- Each full question consists of 16 marks.
- There will be 2 full questions (with a maximum of four subquestions) from each module.
- Each full question will have subquestions covering all the topics under a module.
- The students will have to answer 5 full questions, selecting one full question from each module.

TEXT BOOKS

- ❑ Environmental Microbiology, W.D. Grant & P.E. Long, Blakie, Glasgow and London.
- ❑ Microbial Gene Technology, H. Polasa (ED.) South Asian Publishers, New Delhi.
- ❑ Environmental Biotechnology by Bruce Rittmann and Perry McCarty
- ❑ Biotransformations : K. Faber (1995), Springer- Verlag.

REFERENCE BOOKS

- ❑ Biotreatment Systems, Vol. 22, D. L. Wise (Ed.), CRC Press, INC.
- ❑ Standard Methods for the Examination of Water and Waste Water (14 th Edition), 1985. American Public health Association



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B.E Civil Engineering

B. E. Common to all Programmes Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To <ul style="list-style-type: none"> know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution: The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive: Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions: Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions: Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			



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Professional / Engineering Ethics:

Scope & Aims of Engineering & **Professional Ethics** - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering

Module-5

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for **Cyber Laws**, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be

able to, CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and **Professional ethics and responsibilities** of Engineers.

CO 3: Understand the the cybercrimes and **cyber laws** for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004



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B. E. COMMON TO ALL PROGRAMMES			
Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V			
ENVIRONMENTAL STUDIES			
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.			
Module - 3			
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and Air Pollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.			
Module - 4			
Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.			
Module - 5			
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.			
Course Outcomes: At the end of the course, students will be able to:			
<ul style="list-style-type: none"> • CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale, • CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment. • CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components. • CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues. 			



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Question paper pattern:				
<ul style="list-style-type: none">• The Question paper will have 100 objective questions.• Each question will be for 01 marks• Student will have to answer all the questions in an OMR Sheet.• The Duration of Exam will be 2 hours.				
Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition 2018
3	Environmental Studies– From Crisis to Cure	RRajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition

CONSERVATION OF NATURAL RESOURCES

Choice Based Credit System (CBCS) and Outcome Based Education (OBE)

SEMESTER – VI

Subject Code 18CV656 CIE Marks 40

Teaching

Hours/Week (L:T:P)

3:0:0 SEE Marks 60

Credits 03 Exam Hours 03

Course learning objectives: This course will enable the students to

- Learn types of land forms, soil conservation and sustainable land use planning.
- Apprehend water resources, types, distribution, planning and conservation.
- Know the atmospheric composition of air, pollution and effects on human beings, animals and plants. Air pollution control.
- Apprehend basics of biodiversity and ecosystems.
-

Module -1

Land: Land as a resource, types of lands, conservation of land forms, deforestation, effect of land use changes. Soil health, ecological and economic importance of soil, impact of soil degradation on agriculture and food security, need for soil conservation, sustainable land use planning.



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Module -2

Water: Global water resources, Indian water resources, Resources system planning. Water use sectors- domestic, industrial, agriculture. Water deficit and water surplus basins in India, equitable distribution, Inter-basin water transfers, Interlinking of rivers – Himalayan component, peninsular component, issues involved. **Ground water, its potential in India, conjunctive use, recharge of ground water. Contamination of ground water, sea water ingress, problems and solutions.**

Module -3

Air: Introduction, composition, sources and classification of air pollutants, National Ambient Air quality standards (NAAQS), Air quality index, effects of air pollution on **human health. Economic effects of air pollution.** Control of air pollution by equipment, smoke and its control. Ozone depletion –impacts, photochemical changes.

Minerals and rocks: Minerals, important rock forming minerals like Quartz, Mica, Feldspar and Amphibole, lithification & metamorphism, weathering: physical, biogeochemical processes, erosion, agents of erosion.

Module -4

Biodiversity: Introduction, Flora and Fauna, Importance of biodiversity, Economic values-medicinal plants, drugs, fisheries biogeochemical cycling. Threat to biodiversity, natural & anthropogenic disturbance, habitat loss. Conservation of biodiversity, National parks, wild life sanctuaries, zoological gardens, gene banks, pollen culture, **ecological restoration, social forestry. Ecosystem:** Definition, Types: forest, grass land, marine, desert, wetlands, estuarine, lotic, lentic. Abiotic & biotic components of eco system.

Module -5

Global warming: concept, indicators, factors and effects. Global climate change-indicators, health impacts, effect on biodiversity. Introduction to global efforts in conservation of biodiversity. EIA: Regulations in India, status of EIA in India, list of projects needing environmental clearance under EIA notifications. Case study of hydro power/ thermal power projects.

Updated on 29.03.2021 2/2

Course Outcomes(CO):

At the end of the course, students will be able to

1. Apprehend various components of land as a natural resource and land use planning.
2. Know availability and distribution for water resources as applied to India.
3. Analyse the components of air as resource and its pollution.
4. Discuss biodiversity & its role in ecosystem functioning.
5. Critically appreciate the environmental concerns of today.

Question paper pattern:

1. The question paper will have ten questions, carrying equal marks.
2. There will be two full questions with a maximum four sub questions from each module.

Students shall answer five full questions selecting one full question from each module.

Text Books:

1. Modi, P.N., "Irrigation Water Resources and Water Power Engineering". Standard Book House, New Delhi. 10th Edition, 2019.
2. Raghunath, H.M., "Groundwater", 3rd Edition, New Age International Publishers, New Delhi, 2007.
3. Krishnan, M.S., "Geology of India & Burma". CBS publishers, New Delhi, 2017.
4. P.Jaya Rami Reddy, "A Textbook of Hydrology", University Science Press, New Delhi, 2011.
5. M N Rao and H V N Rao, "Air pollution", McGraw Hill Publications, 2017.



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6. Krishnamurthy K.V., "An advanced textbook of Biodiversity- Principle & Practices." Oxford and IBH publications, New Delhi. 2004.

Reference Books :

1. Odum, E.P., "Fundamentals of Ecology", W.B sounders, Philadelphia, USA, 1971
2. Singh J.S, Singh S.P & Gupta, S.R., "Ecology, environment and resource conservation", Anamaya publications, 2006.
3. Edmond A. Mathez & Jason E. Smerdon, "Climate Change: The science of Global warming and our energy future", Columbia University Press, 2009.
4. National Council of Applied Economic Research, "Economic Impact of Interlinking of Rivers Program", Revised Final Report, April 2008.
5. <http://nwda.gov.in/content>.
6. Madhav Gadgil, "Biodiversity and India's degraded lands", Indian Academy of Sciences, Volume 22- No 2/3, <http://www.jstor.org/pss/4314063>

B. E. CIVIL ENGINEERING

Choice Based Credit System (CBCS) and Outcome Based Education (OBE)

SEMESTER - VII

ENVIRONMENTAL PROTECTION AND MANAGEMENT

Course Code 18CV753 CIE Marks 40

Teaching Hours/Week(L:T:P) (3:0:0) SEE Marks 60

Credits 03 Exam Hours 03

Course Learning Objectives: This course will enable students to gain knowledge in Environmental protection and Management systems

Module -1

Environmental Management Standards: Unique Characteristics of Environmental Problems – Systems approach to Corporate environmental management - Classification of Environmental Impact Reduction Efforts - Business Charter for Sustainable Production and Consumption – Tools, Business strategy drivers and Barriers - Evolution of Environmental Stewardship. Environmental Management Principles - National policies on environment, abatement of pollution and conservation of resources - Charter on Corporate responsibility for Environmental protection.

Module -2

Environmental Management Objectives: Environmental quality objectives – Rationale of Environmental standards: Concentration and Mass standards, Effluent and stream standards, Emission and ambient standards, Minimum national standards, environmental performance evaluation: Indicators, benchmarking. Pollution control Vs Pollution Prevention - Opportunities and Barriers – Cleaner production and Clean technology, closing the loops, zero discharge technologies.

Module -3

Environmental Management System: EMAS, ISO 14000 - EMS as per ISO 14001– benefits and barriers of EMS – Concept of continual improvement and pollution prevention - environmental policy



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– initial environmental review – environmental aspect and impact analysis – legal and other requirements- objectives and targets – environmental management programs – structure and responsibility – training awareness and competence- communication – documentation and document control – operational control – monitoring and measurement – management review.

Module -4

Environmental Audit: Environmental management system audits as per ISO 19011- – Roles and qualifications of auditors - Environmental performance indicators and their evaluation – Non conformance – Corrective and preventive actions -compliance audits – waste audits and waste minimization planning – Environmental statement (form V) - Due diligence audit.

Module -5

Applications: Applications of EMS, Waste Audits and Pollution Prevention Control: Textile, Sugar, Pulp & Paper, Electroplating, , Tanning industry. Hazardous Wastes - Classification, characteristics Treatment and Disposal Methods, Transboundary movement, disposal.

Course outcomes: After studying this course, students will be able to:

1. Appreciate the elements of Corporate Environmental Management systems complying to international environmental management system standards.

2. Lead pollution prevention assessment team and implement waste minimization options.

3. Develop, Implement, maintain and Audit Environmental Management systems for Organizations.

Question paper pattern:

- The question paper will have ten full questions carrying equal marks.
- Each full question will be for 20 marks.
- There will be two full questions (with a maximum of four sub- questions) from each module.
- Each full question will have sub- question covering all the topics under a module.
- The students will have to answer five full questions, selecting one full question from each module.

Reference Books:

1. Christopher Sheldon and Mark Yoxon, “Installing Environmental management Systems – a step by step

guide” Earthscan Publications Ltd, London, 1999.

2. ISO 14001/14004: Environmental management systems – Requirements and Guidelines – International

Organisation for Standardisation, 2004

3. ISO 19011: 2002, “Guidelines for quality and/or Environmental Management System auditing, Bureau of

Indian Standards, New Delhi, 2002

4. Paul L Bishop „Pollution Prevention: Fundamentals and Practice, McGraw- Hill International, Boston, 2000.

5. Environmental Management Systems: An Implementation Guide for Small and Medium-Sized Organizations,

Second Edition, NSF International, Ann Arbor, Michigan, January 2001.



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B.E Automobile Engineering

B. E. Common to all Programmes Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To <ul style="list-style-type: none"> know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution: The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive: Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions: Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions: Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			



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Approved by A.I.C.T.E. New Delhi.

Recognised by UGC Under Section 2(f)

Bommanahalli, Hosur Road, Bangalore - 560 068.

Ph: 080-61754601/602, Fax: 080 - 25730551

E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

Professional / Engineering Ethics:

Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering

Module-5

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for Cyber Laws, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be

able to, CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and Professional ethics and responsibilities of Engineers.

CO 3: Understand the the cybercrimes and cyber laws for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004



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B. E. COMMON TO ALL PROGRAMMES			
Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V			
ENVIRONMENTAL STUDIES			
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.			
Module - 3			
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and Air Pollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.			
Module - 4			
Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.			
Module - 5			
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.			
Course Outcomes: At the end of the course, students will be able to:			
<ul style="list-style-type: none"> • CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale, • CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment. • CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components. • CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues. 			



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- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

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Textbook/s				
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2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition, 2018
3	Environmental Studies– From Crisis to Cure	RRajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition



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B.E Mechatronics

B. E. Common to all Programmes Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> • know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens • Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. • Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution:			
The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive:			
Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions:			
Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions:			
Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			



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Curriculum Highlighting Cross Cutting Issues - PG

MBA

I SEMESTER

Subject Code	Title of the Subject	Category	Teaching hours / week			Duration of Exam (Hours)	Marks for		Total Marks	Credits
			Lecture	Practical Component	Total Hours		CIE	SEE		
18MBA11	Management & Organizational Behavior	Core Course	4	-	4	3	40	60	100	4
18MBA12	Managerial Economics	Core Course	4	-	4	3	40	60	100	4
18MBA13	Accounting for Managers	Core Course	4	-	4	3	40	60	100	4
18MBA14	Business Statistics & Analytics	Core Course	4	-	4	3	40	60	100	4
18MBA15	Marketing Management	Core Course	4	-	4	3	40	60	100	4
18MBA16	Managerial Communications	Core Course	4	-	4	3	40	60	100	4
	Total		24	-	24	-	240	360	600	24

I SEMESTER

Course Management and Behavioural Process

Course Code 18MBA11

Total No. of Lecture Hours: 52

Credits 4 L-T-P-S hours 4-0-0-0 Total No.

Of practical Hours -Nil

COURSE OBJECTIVES:

1. To make students understand fundamental concepts and principles of management, including the basic roles, skills, and functions of management
2. To make students knowledgeable of historical development, theoretical aspects and practice applications of managerial process
3. To understand the basic concepts and theories underlying individual behavior besides developing better insights into one's own self.
4. To make students aware of Individual behavior in groups, dynamics of groups, team building and interpersonal effectiveness besides developing a better awareness of how they can be better facilitators for building effective teams as leaders themselves

PART A - PRINCIPLES OF MANAGEMENT

Unit 1: (8 Hours)

Introduction: Management: Introduction, Definition of management, Nature, Purpose and Functions, Levels and types of managers, managerial roles, skills for managers, evolution of management thought, Fayol's fourteen principles of management, Recent trends in management.

Unit 2: (10 Hours)

Planning and Organizing:



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Planning: Meaning, Nature of Planning, Planning Process, Objectives, MBO, Strategies, level of strategies, policies, methods and programs, Planning Premises, Decision-making, Process of decision-making, Types of decisions, Techniques in decision-making.

Organizing: Organization structure, Formal and informal organizations, Functional, divisional, geographical, customer based and matrix organizations, team based structures, virtual organizations, boundary less organizations. Principles of organizations-chain of command, span of control, delegation, decentralization, and **empowerment.**

Case Study: Principles of Management, Cengagelearning , William , Manjunath , Sandhya

Unit 3: (4 Hours)

Controlling: Meaning, importance of controlling, controlling process, types of control, factors influencing control effectiveness.

RECOMMENDED BOOKS

- MGMT and ORGB, Chuck Williams, James Cambell, Manjunath & Sandhya Cengage Publications, 2018
- Essentials of Management-Koontz, 8/e, McGraw Hill
- Management: Text and Cases-VSP Rao, Excel Books

REFERENCE BOOKS:

- Masters of Management Thought – MahanandCharati & M MMunshi, Sapna Book House, Bangalore, 2015.
- Principles and practices of Management, KiranNerkar, Vilas Chopde, Dreamtech Press, 2011
- Management Theory & practice – Chandan J. S, Vikas Publishing House.

PART B - ORGANIZATIONAL BEHAVIOUR

Unit 4: (6 hours)

Introduction: Organizational Behaviour: Introduction, definition, fundamental principles of OB, contributing **disciplines**, challenges and opportunities. Evolution & Organizational Behavior in India.

Case study: Organizational Behavior by Steven L McShane, Mary Ann Von Glinow and Radha R Sharma, TaTa McGraw Hill companies, Fourth Edition, Pg-6.

Unit 5: (14 Hours)

Foundations of Individual Behaviour: Individual behaviour: **Foundations of individual behaviour. Ability: Intellectual abilities, Physical ability**, the role of disabilities.

Personality: Meaning, formation, determinants, traits of personality, big five and MBTI, personality attributes influencing OB.

Perception: Meaning, Process of perception, factors influencing perception, link between perception and individual decision-making.

Attitude: Meaning, Formation, components of attitudes, relation between attitude and behaviour.

Unit 6: (10 Hours)

Motivation: Meaning, theories of motivation-needs theory, two factor theory, Theory X and Y, application of motivational theories.

Leadership: Meaning, styles of leadership, leadership theories, trait theory, **behavioural theories**, managerial grid, situational theories.

Case Study: "Nuts and Bolts", Principles of Management, Cengagelearning , William , Manjunath , Sandhya Page no 531-532

PRACTICAL COMPONENTS:

- Studying organizational structures of any 10 companies and classifying them into different types of organizations which are studied in Unit 2 and justifying why such structures are chosen by those



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organizations.

- Preparing the leadership profiles of any 5 business leaders and studying their leadership qualities and behaviors with respects to the trait, behavioural and contingency theories studied.
- Identifying any five job profiles and listing the various types, abilities required for those jobs and also the personality traits/attributes required for the jobs identified.

Note: Faculty can either identify the organizations/ leaders/job profile or students can be allowed to choose the same.

COURSE OUTCOMES:

1. Comprehend & correlate all the management functions which are happening around with fundamental concepts and principles of management.
2. Understand the overview of management, theory of management and practical applications of the same.
3. Effectively use their skills for self-grooming, working in groups and to achieve organizational goals.
4. Demonstrate their acumen in applying managerial and behavioral concept in real world/situation.
5. Understand and demonstrate their exposure on recent trends in management.

RECOMMENDED BOOKS:

- Organizational behaviour, Stephen P Robbins, Timothy A. Judge, Neharika Vohra, 14th Edition, Pearson, 2012.
- Introduction to Organisational Behaviour – Michael Butler, Jaico Publishing House,
- Organizational Behaviour - Anada Das Gupta, Biztantra, 2011.

REFERENCE BOOKS:

- Organizational Behaviour - Fred Luthans, 12/e, McGraw Hill International, 2011.
- Management and Organizational Behaviour - Laurie J Mullins, Pearson education
- Organizational Behaviour, Aquinas P. G, Excel Books.



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Course Legal and Business Environment

Course Code 18MBA24 Total No. Of Lecture Hours 52

Credits 4 L-T-P-S hours

4-0-0-0 Total No. Of practical Hours - N

Course Objectives:

1. To provide insights into the core concepts of incorporation of company.
2. To understand various policies and procedures of the company Act.
3. To gain insights into various procedure of Investigation & Winding up of Companies

Part-A (Legal Environment)

Unit I: (4 Hours)

Indian Contract Act, 1872-Meaning of contract, agreement, essential elements of a valid contract. Law of agency meaning, creation and termination of agency.

Unit 2:

Corporate Incorporation and Management .(10 Hours)

Definition of company, characteristics , types of company, lifting of corporate veil (i) Incorporation of company (ii) Memorandum and Articles of Association (iii) Doctrine of Ultra Vires (iv) Doctrine of Indoor Management and constructive notices **Management** - (i) Directors: Appointment, Removal, Position, Powers and Duties of Directors. (ii) Auditor and audit Committee: Its Role. **Directors** – qualification and Appointment, Liabilities and duties

Mini case Presentation and Discussion on Saloman v/s A Soloman& Company Ltd

Unit 3: (12 Hours)

Oppression, Mismanagement and Investigation:

(i) Prospectus, membership and shareholding in an company.(ii) Prevention of Oppression (iii) Prevention of Mismanagement (iv) Role & Powers of the Company Law Board (v) **Role & Powers of Central Government.**

Meeting :(i) Types of Meetings (ii) Procedure of calling for a meeting (iii) Company's resolutions and its kinds, proxies.

Corporate Liquidation: (i). Winding up of Companies (ii). Mode of winding up of the companies (iii). Compulsory Winding up under the Order of the Tribunal (iv). Voluntary winding up (v). Contributories (vi). Payment of liabilities

Mini case Presentation and Discussion on Rule in Foss v. Harbottle

PRACTICAL COMPONENTS:

- Students to collect analyze and discuss MOA, AOA & Prospectus of a company.
- Students to produce a report on the working of reputed agency including its formation, nature of relations with the outside world and such other issues of relevance.

COURSE OUTCOME:

1. Students should get clear idea about the concept of incorporation of company, its relevance, characteristics, types of company, lifting of corporate.
2. Student to acquire knowledge about conducting meeting, duties of directors and Investigation of the company

Part-B (Business Environment)

Course Objectives:

1. To provide an understanding about the Macro Economic Environment of Business.
2. To have an understanding of the basic macro-economic concepts.
3. To study the various economic policies of our country.

Unit-4 (10Hours)



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Indian Business environment: Nature and Scope, Structure of the Business Environment – Internal and External environment. Political and Legal Environment, Economic Environment, Socio – Cultural Environment, Global environment: WTO and global relations.

Basic economic Concepts: Open and Closed Economies, Primary, secondary and Tertiary sectors and their contribution to the economy. SWOT Analysis for the Indian economy. Measuring the Economy: Measuring GDP and GDP Growth rate, Components of GDP, Business Cycle- Features, and Phases.

Unit-5 (8 Hours)

Industrial Policies and Structure: Planning- Problems in industrial development during the plan period, Classification of industries based on ownership. Industrial policies, Industrial strategy for the future, New Industrial policy 1991. **Structure of Indian Industry:** Public and Private Sector Enterprises, Objectives of PSUs, Performance and shortcomings. Private Sector– growth, problems and prospects. SSI – Role in Indian Economy. Startups and their current state in India. Privatisation-Problems and prospects, Disinvestments in Indian public sector Units since 1991.

Case Study: Privatization of Airport and Airline Industry, Source: Business Environment: Text and cases – Justin Paul, 2/e, McGraw Hill. 2008. Pp 166-168.

Unit-6 (8 Hours)

Economic policies: Fiscal Policy: Objectives, Instruments, Union Budget, Taxes, Role of Government.

Monetary Policy: Money, Measures of money supply, Monetary system in India, Tools for credit control. Structure of the Banking system, RBI and its functions, Banking structure reforms – Narasimham committee recommendations. **India Foreign Trade Policy:** Objectives, Features, Policy of 2015-2020- salient features.

PRACTICAL COMPONENTS:

- Students are expected to give a report on how the economic environment has affected the performance of any five large Indian Business Houses.
- Students are expected to analyze the major economic and financial indicators such as GDP, Inflation, CPI, BSE, NSE, Currency, Gold rate, Oil barrel price etc., for a particular period of time and submit the report on the same.

COURSE OUTCOMES:

1. To student will have an understanding of the macro environment of Business and various macroeconomic concepts.
2. The student will understand the industrial policies of the past and the present and the evolution over time, and how Indian Industrial structure evolved over time.
3. The student will be exposed to various economic policies of the country and the state of economy.

RECOMMENDED BOOKS:

- Economic Environment of Business – Misra S. K & Puri V. K. , 6/e, Himalaya publishing house, 2010.
- Business Environment :Text and Cases



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IV SEMESTER
(Dual Specialisation)

Subject Code			Category	Teaching hours / week			Duration of Exam (Hours)	Marks for		Total Marks	Credits
				Lecture	Practical / Field Work / Assignment **	Total		CIE	SEE		
Marketing & Finance	Finance & HR	HR & Marketing									
18MBAMM401	18MBAFM401	18MBAHR401	Elective Course	3	-	3	3	40	60	100	3
18MBAMM402	18MBAFM402	18MBAHR402	Elective Course	3	-	3	3	40	60	100	3
18MBAMM403	18MBAFM403	18MBAHR403	Elective Course	3	-	3	3	40	60	100	3
18MBAFM401	18MBAHR401	18MBAMM401	Elective Course	3	-	3	3	40	60	100	3
18MBAFM402	18MBAHR402	18MBAMM402	Elective Course	3	-	3	3	40	60	100	3
18MBAFM403	18MBAHR403	18MBAMM403	Elective Course	3	-	3	3	40	60	100	3
18MBAPR407			Project Work *	0	-	12	---	50	150	200	6
			Industrial Visit	0	-	0	---	0	--	-	-
				18	-	30	-	290	510	800	24

SEMESTER IV

MARKETING SPECIALISATION

Course Sales Management

Course Code 18MBA MM401

Total No. Of Lecture Hours 39

Credits 3 L-T-P-S hours

3-0-0-0 Total No. Of practical Hours -Nil

Course Objectives:

1. To provide an understanding of the concepts, techniques and approaches in Sales Management.
2. To emphasize on the Sales Manager's problems and dilemmas.
3. To develop skills for generating, evaluating and selecting sales strategies.

Unit 1: (6 hours)

Introduction to sales management: Meaning, Evaluation, Importance, Personal Selling, Emerging Trends in Sales Management, elementary study of sales organizations, qualities and responsibilities of sales manager. Types of sales organizations.

Unit 2: (5 hours)

Selling skills & selling strategies: Selling and buying Styles, selling skills, situations, selling process, sales presentation, Handling customer objections, Follow-u action.

Unit 3: (6hours)

Management of Sales Territory & Sales Quota: Sales territory, meaning, size, designing, sales quota, procedure for sales quota. Types of sales quota, Methods of setting quota. Recruitment and selection of sales force, Training of sales force.

Unit 4: (8 hours)

Sales force motivation and compensation: Nature of motivation, Importance, Process and factors in the motivation, Compensation-Meaning, Types of compensation plans and evaluation of sales force by



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performance and appraisal process. Sales management job: Standard sales management process-international sales management -international market selection market survey approach or strategy

Unit 5: (6 hours)

Sales Manager and Sales Person: Role of sales manager and sales people; functions of sales manager, functions of sales person, types and characteristics of sales manager and sales people-Time management for sales manager and sales person.

Unit 6: (8 hours)

Selling on the internet: Selling agents for internet trading-net selling, advertising in net trading, payment system in internet trading-smart card, credit card, debit card- payment by card: advantages and disadvantages; How to make internet selling safe-Digital signature, biometric method and legal or regulatory environment; Growth of internet trading in India.

PRACTICAL COMPONENT:

- Interview a salesperson and write a brief report about what they like and dislike about their jobs, their salary, travelling allowances, sales quotas, why chose sales career, and what does it take to succeed in this profession.
- Ask your friends if they would buy certain goods like groceries, vegetables, socks, mobile, pens etc from the roadside vendor as against a regular shop. Group the products into low risk and high risk ones. Does this buying behaviour also depend on the personality of the individual doing the buying? Or the one doing the selling?
- Students can make a presentation on any product or the services of student choice, covering selling strategies and one day work exposure towards merchandising in any big retail outlets of respective places where the institute is operating. Rural colleges can send the students to the city nearby to observe the merchandising planning in retail outlets and to make a small report.
- Roles and functions of sales manager and sales people are different in every organization. Sales people view the roles of sales managers in their own way and vice versa. You are the sales manager of a company. You make an analysis of what you feel should be roles of a sales manager and a salesperson for maximizing sales of the organization.
- Your company is active in internet trading. A current issue in internet trading is : how to make internet selling safe. Different methods have been suggested for safety or security of internet trading. You have to analyze

different methods and recommend a method for your company.

COURSE OUTCOMES: Student should be able to

1. Understand the apply the selling techniques in an organisation.
2. Develop a plan for organising, staffing & training sales force.
3. Organise sales territories to maximize selling effectiveness.
4. Evaluate sales management strategies.

RECOMMENDED BOOKS:

- Sales Management by Charles, Futrell, 6/e, Thomson South Western, 2003.
- Sales & Distribution Management, Tapan K. Panda & Sunil Sahadev, 6/e, Oxford University Press.
- Managing of Sales Force by Spiro Stanton Rich, 11/e, TMH, 2003.

REFERENCE BOOKS:

- Sales & Retail Management, an Indian perspective by Dr.S.L Gupta, 1/e, Excel Books, 2007.
- Salesmanship and Sales Management-P.K Sahu & K C Raut, 3/e, Vikas Publishing House.
- Sales Management-Douglas J Dalrymple, William L Crowe-John Wiley & Co.



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MCA

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Under Outcome Based Education (OBE) And Choice Based Credit System (CBCS) Scheme
Scheme of Teaching and Examination – 2018-19
Master of Computer Applications**

IV SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
				Theory (L)	Tutorial (T)	Practical (P)	Duration in hours	SEE Marks	CIE Marks		Total Marks
1	18MCA41	Advanced Java Programming	MCA	03	-	-	03	60	40	100	03
2	18MCA42	Advanced Web Programming	MCA	03	-	-	03	60	40	100	03
3	18MCA43	Object Oriented Modeling and Design	MCA	03	-	-	03	60	40	100	03
4	18MCA44X	Elective II	MCA	03	-	-	03	60	40	100	03
5	18MCA45X	Elective III	MCA	03	-	-	03	60	40	100	03
6	18MCA46	Professional Communication & Report Writing	MCA	02	-	-	03	60	40	100	02
7	18MCA47	Advanced Java Programming Lab	MCA	-	01	03	03	60	40	100	02
8	18MCA48	Advanced Web Programming Lab	MCA	-	01	03	03	60	40	100	02
9	18MCA49	Object Oriented Modeling and Design Lab	MCA	-	01	03	03	60	40	100	02
TOTAL				Theory: 17hours Practical: 09 hours Tutorial/Instruction: 03hours				540	360	900	23

Professional Communication & Report Writing

[As per Choice Based Credit System (CBCS) scheme]

SEMESTER – IV

Subject Code: 18MCA46

CIE Marks: 40 SEE Marks: 60 SEE Hours: 03

Number of Lecture Hours/Week: 03 Hours Theory & 01 Hour Tutorial/ Instructions

Total Number of Lecture Hours: 45

Total Number of Teaching Hours/Module: 9

CREDITS – 02

Course learning objectives: This course (18MCA46) will enable student to

- Learn the role of communication and standard for grammar, numbers and spellings
- Realize the business Etiquettes and organizing the Reports.
- Understand the aspects of group communication.
- Exposure to the various business and technological ethics.

Course Outcomes (CO): *At the end of this course, the students will be able to*

CO1: Understand the Professional communication at work place.

CO2: Acquire the knowledge technical Writing and business Reporting.

CO3: Develop the leadership qualities.

CO4: Understand and implement ethical behavior at work place.

Module 1:

Communication in the workplace- Role of communication in Business, Process of Human Communication. Informal Communication- Listening, Nonverbal Communication. Correctness Of Communication- Nature of correctness, Standard for Punctuation, Standards for Grammar, Standards for the use of numbers, Spelling, Capitalization.

Module 2:

Writing for Effect- Business Etiquette, conversational style, view point, positive language, and courtesy. Basics Report Writing- Determine the Factors, Gathering the Information, Organizing the



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Report, Writing The Report. Physical Presentation Of Letters, Memos, And Reports- document preparation, Form of Business Letters. Strategies in the job search Process- Preparing application, Resume, Cover letter, Facing an Interview.

Module 3:

Group **Communication**- Introduction, Group discussion, **Organization** group discussion, group discussion as part of selection process meetings. Effective Presentation strategies- Introduction, Defining purpose, Analyzing audience and place, organizing contents, preparing outline, Visual Aids, Understanding Nuances of delivery, Kinesics, Proxemics, Paralinguistics, Chronemics, Sample speech.

Module 4:

Motivation- Motivation and Motivators, Motivation: The Carrot and the stick, The Hierarchy of needs Theory, The Motivation – Hygiene Approach to Motivation. Leadership- Defining Leadership, Ingredients of Leadership, Trait Approaches to Leadership, Leadership behavior and styles, Situational or contingency, Approaches to Leadership.

Module 5:

Ethics: An overview of Ethics- What are Ethics? Ethics in the business World, Ethics in Information Technology (IT). Ethics for IT Professionals and IT users- IT Professionals, The Ethical behavior of IT

Professionals, IT Users.

Question paper pattern:

- The question paper will have ten questions.
- Each full question consists of 20 marks.
- There will be 2 full questions from each module.
- Each question will have questions covering all the topics under a module.
- The students will have to answer 5 full questions, selecting one full question from each module

Text Books

1. Meenakshi Raman and Sangeeta Sharma: Technical **Communication**-Principles and Practices, Oxford University Press, 2004.
2. George Reynolds: Ethics in Information Technology, 2nd Edition, Thomson Course Technology, 2007

Reference Books

1. Lesikar and Flatley: **Communication**-Basic Business **Communication** Skills for Empowering the Internet Generation 9th Edition, Tata McGraw-Hill Edition, 2002
 2. Harold Koonlz and Heinz Weihrich: Management-Essentials of Management, 9th Edition, McGraw-Hill International Edition, 2012
- 2) 1st Year / 1st Semester Basics of Programming & CO (Bridge course-20MCA19-BC) for non Computer science Background



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2019 – 20



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INSTITUTIONAL CURRICULUM COMMITTEE MEETING 2019-2020 –(ODD)

The reconstitution of the Institutional curriculum committee was made and the meeting was held on 22/07/2019 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION	COMMITTEE DESIGNATION
1.	Dr A S Aravind	Principal	Chair Person
2.	Dr R China Appala Naidu	HOD-CSE	Member Coordinator
3.	Dr R Kanagavalli	HOD-ISE	Member
4.	Dr Manju Devi	HOD-ECE	Member
5.	Dr V S Bharath	HOD-EEE	Member
6.	Prof Madhusudhan Reddy	HOD-ME	Member
7.	Dr B K Manjunath	HOD-BT	Member
8.	Dr Malleshaiah T S	HOD-Civil & CTM	Member
9.	Dr B S Yashodha	HOD-MT	Member
10.	Dr K Sathish Babu	HOD-AUTO	Member
11.	Dr Mallikarjuna K	HOD-Maths	Member
12.	Prof Abdul Khader	HOD-Physics (in-charge)	Member
13.	Dr Surekha M	HOD-Chemistry	Member
14.	Dr Dhanalakshmi R V	HOD-MBA	Member
15.	Dr M S Shashidhara	HOD-MCA	Member
16.	ArGurudutt S	Principal (B-Arch)-TOSA	Member

Agenda:

- Syllabus prescribed by Visvesvaraya Technical University to be followed.
- Implementation of UG and PG time table



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- Faculties to participate in BOS / Academic council and question paper designing - evaluation and assessment.
- Implementation of Certificate courses – Diploma / Add-on Courses.
- Implementation of Interdisciplinary/ Interdepartmental courses.
- **Integration of cross cutting issues into syllabus.**
- Implementation of Value-added courses.
- Implementation of Field visits / industry visits.
- Implementation of action on Feedback analysis report.

Summary: Minutes

The committee is composed of Principal, Dean Academics and Head of all departments. The above-mentioned agenda was discussed and resolutions were formed. These were circulated to all the concerned departments and were recommended to be inculcated in their respective department curriculum meeting and implementation of the same.

Resolutions:

- It has been informed to all HOD's to implement the latest prescribed syllabus by VTU in the respective department.
- It was noticed that some faculties have been invited as BOS and BOE members from different Autonomous colleges and universities
- It is decided to implement 2 add-on courses for each department and an action plan to be submitted one week after this meeting.
- It is decided to implement 2 value added courses for each department and an action plan to be submitted within one week after this meeting.
- It is decided to implement 2 interdisciplinary courses for each department and an action plan to be submitted one week after this meeting.
- It is decided to implement one field visit for each department and an action plan to be submitted within one week after this meeting.
- **The cross-cutting issues should be integrated into the curriculum.**


Dr. R V Praveena Gowda
PRINCIPAL
The Oxford College of Engineering
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INSTITUTIONAL CURRICULUM COMMITTEE MEETING 2019-2020 –(EVEN)

The reconstitution of the Institutional curriculum committee was made and the meeting was held on 07/02/2020 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION	COMMITTEE DESIGNATION
1.	Dr A S Aravind	Principal	Chair Person
2.	Dr R China Appala Naidu	HOD-CSE	Member Coordinator
3.	Dr R Kanagavalli	HOD-ISE	Member
4.	Dr Manju Devi	HOD-ECE	Member
5.	Dr V S Bharath	HOD-EEE	Member
6.	Prof Madhusudhan Reddy	HOD-ME	Member
7.	Dr B K Manjunath	HOD-BT	Member
8.	Dr Malleshaiah T S	HOD-Civil & CTM	Member
9.	Dr B S Yashodha	HOD-MT	Member
10.	Dr K Sathish Babu	HOD-AUTO	Member
11.	Dr Mallikarjuna K	HOD-Maths	Member
12.	Prof Abdul Khader	HOD-Physics (in-charge)	Member
13.	Dr Surekha M	HOD-Chemistry	Member
14.	Dr Dhanalakshmi R V	HOD-MBA	Member
15.	Dr M S Shashidhara	HOD-MCA	Member
16.	Prof Kirti P	In-Charge Principal -TOSA	Member

Agenda: Minutes

- To review that prescribed syllabus is being followed.
- To review implementation of theory and practical are held as per time table submitted.



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- To review the efforts made by the faculties in participating in BOS/ Academic council and question paper designing – evaluation and assessment
- To review on Add on courses/Value added courses, Field visits/Industry visit and Internship.
- To review implementation and delivery of cross cutting issues.

Summary: Minutes

The committee is composed of Principal, Dean Academics and Head of all departments. The above-mentioned agenda was discussed and resolutions were formed. These were circulated to all the concerned departments and were recommended to be inculcated in their respective department curriculum meeting and implementation of the same.

Resolution:

- The approved syllabus is followed.
- The classes were conducted in online mode as per the lesson plan, due to pandemic and attendance was checked twice a week and report was sent
- Online meetings were conducted to monitor the classes and HODs were instructed to login to the class and monitor.
- It has been advised to maintain the Attendance register of online classes and reports should be sent to the undersigned.
- All departments conducted various webinars related to academic topics.


Dr. R V Praveena Gowda
PRINCIPAL

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Departmental Committee Meeting – (CSE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 –(ODD)

The department curriculum committee was made and the meeting was held on 22/07/2019 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr R Ch A Naidu	Professor
2	Dr. E Saravana Kumar	Professor
3	Dr. Nirmala	Professor
4	Ms. Shobha T	Assot. Professor
5	Mr. Senthil Kumar	Assot. Professor
6	Ms. SeemaPatil	Assot. Professor
7	Ms. Gousia T	Asst. Professor
8	Ms. Sowmya H K	Asst. Professor
9	Ms. Florance G	Asst. Professor
10	Mr. Naveen H S	Asst. Professor
11	Ms. Jesy Janet Kumari	Asst. Professor
12	Ms. Latha R	Asst. Professor
13	Ms. Sushma T Shanbhogue	Asst. Professor
14	Ms.Sonika Sharma	Asst. Professor
15	Ms. Anjali	Asst. Professor
16	Ms. Ashwini	Asst. Professor
17	Ms. Tintu	Asst. Professor

Agenda:



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- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. R Ch. A Naidu welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS Elective/Humanity and Social Science	
1	17CS551	Object Oriented Modeling and Design
2	17CS563	Embedded Systems
3	18KVK39	Vyavaharika Kannada (Kannada for communication)
4	18KAK39	Aadalitha Kannada (Kannada for Administration)
5	18CPC39	Constitution of India, Professional Ethics and Cyber Law

5. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
6. Department announced to conduct the regular seminars to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
10. The following certificate programs will be conducted during 2019 – 2020 ODD semester



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Sl. No.	Name of the Certificate Program
1	C, C++, Java, Python with Machine Learning and Artificial Intelligence

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

HOD, CSE

HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
BENGALURU - 560 068



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Departmental Committee Meeting – (CSE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 –(EVEN)

The department curriculum committee was made and the meeting was held on 07/02/2020 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr R Ch A Naidu	Professor
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16	Ms. Ashwini	Asst. Professor
17	Ms. Tintu	Asst. Professor



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Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. R Ch. A Naidu, welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2019-20 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS Elective/Humanity and Social Science	
1	17CS651	Data Mining and Data Warehousing
2	17CS664	Python Application Programming
3	18KVK49	Vyavaharika Kannada (Kannada for communication)
4	18KAK49	Aadalitha Kannada (Kannada for Administration)
5	18CPC39	Constitution of India, Professional Ethics and Cyber Law

3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Mentor mentee list – discussion



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Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

HOD, CSE



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Departmental Committee Meeting – Information Science and Engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 –(EVEN)

The department curriculum committee was made and the meeting was held on 08/02/2020 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr.R.Kanagavalli	HOD
2.	Dr.Jayaramaiah. D	Professor
3.	Dr.A.Francis	Professor
4.	Dr.Vinodha K	Assot. Prof.
5.	Ms. Visalini S	Assot. Prof.
6.	Mr. Yadhu Krishna M R	Assot. Prof.
7.	Ms. KalaiSelvi	Assot. Prof.
8.	Ms.Nalinakshi B G	Assot. Prof.
9.	Ms. Kokila P	Asst. Prof.
10.	Mrs.Chempavathy B	Asst. Prof.
11.	Mrs.Sindhuja	Asst. Prof.
12.	Ms. Suganya R	Asst. Prof.
13.	Mr. Channappa Gowda	Asst. Prof.
14.	Ms. Chitra G	Asst. Prof.
15.	Ms. InduK.S	Asst. Prof.
16.	Mrs.Prathiba.K.N	Asst. Prof.
17.	Mr. Karthik S L	Asst. Prof.
18.	Mrs.Halaharvi Keerthi	Asst. Prof.



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19.	Ms.Radha.D.N	Asst. Prof.
20.	Ms.Geethanjali	Asst. Prof.
21.	Mr. Amaresha	Asst. Prof.

Agenda:

1. Semester plan
2. Introduction of syllabus based on CBCS scheme
3. Conduction of seminars
4. Plan for Field Visit/ Industrial Visit
5. Plan for the (Final Year's)Project Works / Internships
6. Allotment the assignment topics and tutorial topics
7. Plan for mentoring activities

Summary: Minutes

1. HOD, Dr.Kanagavalli welcomed all the faculty and explained VTU, ODD semester regulations.
2. Semester plan for 2019-20 even semester and mentioning the activities planned in the department.
3. The discussion of the subjects of CBCS selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the (Final Year's) Project Works / Internships (with company names and details).
9. Mentor mentee list – discussion
10. The following certificate programs will be conducted during 2019 – 2020 EVEN semester



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Sl. No.	Name of the department	Name of the Certificate Program
7.	Information Science and Engineering	Programming language(C,C++,JAVA,HTML,Python) and advanced concepts(ML and AI)

11. The following value-added programs will be conducted during 2019 – 2020 EVEN semester

Sl. No.	Name of the department	Name of the Value-added programs
16.	Information Science and Engineering	Soft skill training

Resolutions:

1. Research activity to be improved.
2. Result percentage to be improved.


PROFESSOR & HOD
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HOD



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Departmental Committee Meeting – Information Science and Engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 – (ODD)

The department curriculum committee was made and the meeting was held on 25/07/2019 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr.R.Kanagavalli	HOD
2.	Dr.Jayaramaiah. D	Professor
3.	Dr.A.Francis	Professor
4.	Dr.Vinodha K	Assot. Prof.
5.	Ms. Visalini S	Assot. Prof.
6.	Mr. Yadhu Krishna M R	Assot. Prof.
7.	Ms. KalaiSelvi	Assot. Prof.
8.	Ms.Nalinakshi B G	Assot. Prof.
9.	Ms. Kokila P	Asst. Prof.
10.	Mrs.Chempavathy B	Asst. Prof.
11.	Mrs.Sindhuja	Asst. Prof.
12.	Ms. Suganya R	Asst. Prof.
13.	Mr. Channappa Gowda	Asst. Prof.
14.	Ms. Chitra G	Asst. Prof.
15.	Ms. InduK.S	Asst. Prof.
16.	Mrs.Prathiba.K.N	Asst. Prof.
17.	Mr. Karthik S L	Asst. Prof.



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18.	Mrs.Halaharvi Keerthi	Asst. Prof.
19.	Ms.Radha.D.N	Asst. Prof.
20.	Ms.Geethanjali	Asst. Prof.
21.	Mr. Amaresha	Asst. Prof.

Agenda:

1. Semester plan
2. Value-added and certificate programs
3. Conduction of seminars
4. Plan for Field Visit/ Industrial Visit
5. Plan for the (Final Year's) Project Works / Internships
6. Allotment the assignment topics and tutorial topics

Summary: Minutes

1. HOD, Dr.Kanagavalli welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS)
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans for Field Visit/ Industrial Visit.
7. Planning for the (Final Year's) Project Works / Internships (with company names and details).
8. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2019 – 2020 odd semesters



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Sl. No.	Name of the department	Name of the Certificate Program
8.	Information Science and Engineering	Programming language(C,C++,JAVA,HTML,Python) and advanced concepts(ML and AI)

The following value-added programs will be conducted during 2019– 2020 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
17.	Information Science and Engineering	Soft skill training

Resolutions:

13. Result percentage to be improved.

14. Research activity to be improved.

[Handwritten Signature]
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DEPARTMENT CURRICULUM COMMITTEE -ECE

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2018-2019 (EVEN)

The department curriculum committee was made and the meeting was held on 19/02/2019 and the following members were present for the meeting.

Sln.	NAME	DESIGNATION
1	Dr.Manju Devi	Professor&Head
2	Dr.Vivek.M	Professor
3	Dr.PreetiSharan	Professor
4	Mr.N.Jayaraj	AssociateProf
5	Ms.SajithraVarun	AssociateProf
7	Mr.N.Sridhar	AssociateProf
8	Ms.ChrispinJiji	Asst.Professor
9	Mr.Ravindra.V.S	Asst.Professor
10	Ms.SowmyaPadukone.G	Asst.Professor
11.	Mr.BhargavRamGowd	Asst.Professor
12.	Ms.LayaTojo	Asst.Professor
13.	Ms.Chandrakala.S	Asst.Professor
14	Ms.Aruna.J	Asst.Professor
15.	Mr.ManjunathSheth	Asst.Professor
16	Mr.Veeresh.H	Asst.Professor
17	Mr.Anand.K.Warad	Asst.Professor
18	Mr.RichardLincolnPaulraj	Asst.Professor



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19	Ms.SoniyaJames	Asst.Professor
20	Ms.Lakshmi.R	Asst.Professor
21	Mr.AravindReddy	Asst.Professor
22	Dhanya	Asst.Professor
23	JagadeeshwarReddy	Asst.Professor
24	Dr.Manju Devi	Prof&HOD
25	Dr.AnilTiwari	Professor
26	VarshaParihar	Asst.Professor
27	Rani.B.A	Asst.Professor
28	Megha.M.S	Asst.Professor
29	Poojashri.C.S	Asst.Professor
30	Bindu.P	Asst.Professor
31	PraveenKumar	Asst.Professor
32	Ashwini.M	Asst.Professor
33	NithikaBhasi	Asst.Professor
34	JishaChandra	Asst.Professor
35	Vidya.S.A	Asst.Professor
36	Dr.ReemaSharma	Asst.Professor

Agenda:

- 1.EvenSemester Plan for Academics & Co-Curricular Activities
- 2.IntroductionofCBCS&orientationforStudents
5. ArrangementofSeminars,FieldVisits&IndustrialVisittoStudents



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6. ConductionofProjectWork,Internshipworkto Students

Summary:Minutesofmeeting

,Dr.ManjuDevi,HOD&Profwelcomed all the faculty and explained VTU,
EvenSemesterregulations.

7. Semesterplanfor2018-

19EvenSemesterandmentioningtheactivitiesplannedinthe Department.

Sl.No.	Nameofthedepartment	NameoftheCertificateProgram
1.	ECE	NCSEM-2019

8. The following value-added programs will be conducted during


2018 – 2019Even-Semester

Sl.No.	Nameofthedepartment	NameoftheCertificateProgram
1.	ECE	RTCSE-2019

Resolutions:

TheHOD&FacultiesoftheDepartmentwilldotheResolutionthatWeallwillwor
ktowardstheoverallgrowthoftheDepartment,Students&Organization.

HOD


Professor & HOD of E&C Engineering
The Oxford College of Engineering
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DEPARTMENT CURRICULUM COMMITTEE -ECE

DEPARTMENTAL CURRICULUM COMMITTEEMEETING 2019-2020 (ODD)

The Department curriculum committee was made and the meeting was held on 23/07/2019 and the following members were present for the meeting.

Sln.	NAME	DESIGNATION
1	Dr.Manju Devi	Professor&Head
2	Dr.Vivek.M	Professor
3	Dr.Preetasharan	Professor
4	Mr.N.Jayaraj	AssociateProf
5	Ms.ChrispinJiji	Asst.Professor
6	Ms.SowmyaPadukone.G	Asst.Professor
7.	Mr.BhargavRamGowd	Asst.Professor
8.	Ms.LayaTojo	Asst.Professor
9.	Ms.Chandrakala.S	Asst.Professor
10	Ms.Aruna.J	Asst.Professor
11	Mr.ManjunathSheth	Asst.Professor
12	Mr.Veeresh.H	Asst.Professor
13	Mr.Anand.K.Warad	Asst.Professor
14	Harshini.N.M	Asst.Professor
15	Mr.Shivaprasad	Asst.Professor
16	Ms.Lakshmi.R	Asst.Professor
17	Mr.AravindReddy	Asst.Professor
18	Dhanya	Asst.Professor



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19	JagadeeshwarReddy	Asst.Professor
20	Dr.AnilTiwari	Professor
21	Poojashri.C.S	Asst.Professor
22	Mohanti	Asst.Professor
23	PraveenKumar	Asst.Professor
24	Ashwini.M	Asst.Professor
25	NithikaBhasi	Asst.Professor
26	JishaChandra	Asst.Professor
27	Vidya.S.A	Asst.Professor
28	Sunitha.L	Asst.Professor
29	Srividya.G	Asst.Professor

Agenda:

- 1.ODDSemester Plan for Academics & Co-Curricular Activities
- 2.Introduction of CBCS & orientation for Students
- 3.Arrangement of Seminars, Field Visits & Industrial Visit to Students
4. Conductiono fProject Work, Internship work to Students

Summary:Minutes of meeting

,Dr.Manju Devi,HOD & Prof welcomed all the faculty and explained VTU, Even Semeste. rregulations.

5. Semester plan for 2019- 20 ODD Semester and mentioning the activities planned in the Department.



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Sl.No.	Nameofthedeptment	NameoftheCertificateProgram
1.	ECE	NCSEM-2019

6. The following value-added programs will be conducted during
2019 – 2020ODD-Semester

Sl.No.	Nameofthedeptment	NameoftheCertificateProgram
1.	ECE	Workshop onQuantum-Dot

Resolutions:

The HOD & Faculties of the Department will do the Resolution that We all will work towards the overall growth of the Department,Students&Organization.

Professor & HOD of E&C Engineering
The Oxford College of Engineering
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1

Departmental Committee Meeting – (EEE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 –(ODD)

The department curriculum committee was made and the meeting was held on 08/07/2019 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr.Bharath.V.S	Prof.& HOD
2	Dr.V.Chinnappan	Prof
3	Dr.Gurumurthy	Prof
4	Mrs.SandhyaRai	Prof.
5	Mr.N.Jayakumar	Assoc. Prof.
6	Mrs.Nisha.C.Rani	Prof.
7	Mrs.B.DeviVighneshwari	Assoc. Prof.
8	Mrs.Raichel Ruby	Assoc. Prof.
9	Mrs.Manjula.C	Assoc. Prof.
10	Mrs.Viji.K	Assoc. Prof.
11	Mrs.NalinaKumari	Assoc. Prof.
12	Mr.Muniyappa.N	Assoc. Prof.
13	Mrs.Thilaga.P	Asst. Prof.
14	Mrs.NavathaKumari	Asst. Prof
15	Mrs.Sumitha.T.L	Asst. Prof.
16	Mrs.Someswari	Asst. Prof.



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17	Mrs.ArutselviNagammai	Asst. Prof.
18	Ms.Deepa.N.Raju	Asst. Prof.
19	Mrs.Vinutha.Y.E	Asst. Prof.
20	Mrs.Thiruvonasundari.D	Asst. Prof.
21	Ms.Savitha.M	Asst. Prof.
22	Ms.Swapna.C.M	Asst. Prof.
23	Mrs.Resna.S.R	Asst. Prof.
24	Ms.Deepa.R	Asst.Prof.
25	Ms.Bhuvaneswari.M	Asst.Prof.
26	Mr.Madhusudan Reddy	Asst.Prof.
27	Mr.Raghumanth A	Asst.Prof.
28	Anoop H K	Asst.Prof

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship

Minutes of Meeting:



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1. HOD, Dr.Bharath.V.S welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	15EE742	Utilization of Electrical Power
2	15EE752	Testing and commissioning of power system Apparatus
4	18KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
5	18MATDIP31	Additional Mathematics –I

5. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
6. Department announced to conduct the regular seminars to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2019 – 2020 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	EEE	Technical Skill Training on "AUTOMATION (PLC&SCADA), DRIVES, LV SWITCHGEAR"

Resolutions:



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- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


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The Oxford College of Engg
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HOD-EEE



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Departmental Committee Meeting – (EEE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 –(EVEN)

The department curriculum committee was made and the meeting was held on 18/02/2020 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr.Bharath.V.S	Prof.& HOD
2	Dr.V.Chinnappan	Prof
3	Dr.Gurumurthy	Prof
4	Mrs.SandhyaRai	Prof.
5	Mr.N.Jayakumar	Assoc. Prof.
6	Mrs.Nisha.C.Rani	Prof.
7	Mrs.B.DeviVighneshwari	Assoc. Prof.
8	Mrs.Raichel Ruby	Assoc. Prof.
9	Mrs.Manjula.C	Assoc. Prof.
10	Mrs.Viji.K	Assoc. Prof.
11	Mrs.NalinaKumari	Assoc. Prof.
12	Mr.Muniyappa.N	Assoc. Prof.
13	Mrs.Thilaga.P	Asst. Prof.
14	Mrs.NavathaKumari	Asst. Prof
15	Mrs.Sumitha.T.L	Asst. Prof.



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16	Mrs.Someswari	Asst. Prof.
17	Mrs.ArutselviNagammai	Asst. Prof.
18	Ms.Deepa.N.Raju	Asst. Prof.
19	Mrs.Vinutha.Y.E	Asst. Prof.
20	Mrs.Thiruvonasundari.D	Asst. Prof.
21	Ms.Savitha.M	Asst. Prof.
22	Ms.Swapna.C.M	Asst. Prof.
23	Mrs.Resna.S.R	Asst. Prof.
24	Ms.Deepa.R	Asst.Prof.
25	Ms.Bhuvaneswari.M	Asst.Prof.
26	Mr.Madhusudan Reddy	Asst.Prof.
27	Mr.Raghumanth A	Asst.Prof.
28	Anoop H K	Asst.Prof

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship



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Minutes of Meeting:

1. HOD, Dr.Bharath.V.S, welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2019-20 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	15EE831	SMART GRID
2	15KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
3	15MATDIP41	Additional Mathematics –II

3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Mentor mentee list – discussion
10. The following certificate programs will be conducted during 2019– 2020 EVEN semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	EEE	Technical Skill Training on "AUTOMATION (PLC&SCADA), DRIVES, LV SWITCHGEAR"

Resolutions:



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- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Professor & Head-EEE
The Oxford College of Engg
Bommanahalli, Hosur Road
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HOD- EEE



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Departmental Committee Meeting – (BRANCH): Mechanical engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 – (ODD)

The department curriculum committee was made and the meeting was held on 01/8/2019 and the following members were present for the meeting.

Sln.	NAME	DESIGNATION
1	DR. MADHUSUDHAN REDDY	HOD
2	RAVIPRAKASH	Professor
3	VIDHYADHAR POOJAR	Professor
4	PRASAD NAYAK	Professor
5	RAGHAVENDRAN	Assistant Professor
6	RAHUL D	Assistant Professor
7	RANGU P,	Assistant Professor
8	SHIVASHESH DRI	Assistant Professor
9	VINAY V	Assistant Professor
10	ANOOP UPADYAYA	Assistant Professor

Agenda:

1. Finalization of departmental activities for the academic year.
2. Allocation of subjects to faculties.
3. Approval of project batch.

Summary: Minutes

1. HOD, Dr. Madhusudhan Reddy welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS)



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4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminar to the students.
6. Department plans for Field Visit/Industrial Visit.
7. Planning for the (Final Year's) Project Works/Internships (with company names and details).
8. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2019 – 2020 odd semester

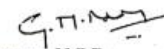
Sl.No.	Name of the department	Name of the Certificate Program
1	Mechanical engineering	Engineering graphics
2	Mechanical engineering	Programming with microprocessor

The following value-added programs will be conducted during 2019–2020 odd semester

Sl.No.	Name of the department	Name of the Value-added programs
1	Mechanical engineering	Design of circuit for hydraulics fluids
2	Mechanical engineering	Programming with microprocessor

Resolutions:

- Each faculty has to take two theory subjects and one lab, out of which one subject will be choice of faculty while the other subject will be left to the discretion of HOD.
- Departmental activities are to be planned as per calendar of institution and must be got approval from principal.
- Fore man is given in charge to finalise the budget allocations for various labs/workshops in consultation with lab in charges.


PROFESSOR & HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
BOMMANAHALLI, BANGALORE-560068



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Departmental Committee Meeting – (BRANCH): mechanical engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 – (EVEN)

The department curriculum committee was made and the meeting was held on 18/02/2020 and the following members were present for the meeting.

Sln.	NAME	DESIGNATION
1	DR.MADHUSUDHAN REDDY	HOD
2	RAVIPRAKASH	Professor
3	VIDHYADHAR POOJAR	Professor
4	PRASAD NAYAK	Professor
5	RAGHAVENDRAN	Assistant Professor
6	RAHUL D	Assistant Professor
7	RANGU P,	Assistant Professor
8	SHIVASHESH DRI	Assistant Professor
9	VINAY V	Assistant Professor
10	ANOOPUPADYAYA	Assistant Professor

Agenda:

1. Allocation of subject to staff.
2. Identifying lab in charges/mentors/class teachers.
3. Finalizing departmental activities to be conducted.

Summary: Minutes

1. HOD, Dr. Madhusudhan Reddy welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2019-20 even semester and mentioning the activities planned in the department.



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Sl.No.	NameoftheDepartment	CBCS
1.	Mechanicalengineering	7 th semester&8 th semester

3. The discussion of the subjects of CBCS given in the above table, selected by the students.

4. As per the VTU regulation guidelines the students of B.E have to select one subject from the MOOCS-I, MOOCS-II & MOOCS-III

Sl.No	NameoftheDepartment	MOOCS- I	MOOCS -II	MOOCS -III
1.	Mechanicalengineering	nil	nil	nil

5. Syllabus copy prescribed by the university circulated to the students and faculty.

6. Department announced to conduct the regular seminar to the students.

7. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

8. Department plans for Field Visit/Industrial Visit.

9. Planning for the (Final Year's) Project Works/ Internships (with company names and details).

10. Mentor mentee list - discussion

11. The following certificate programs will be conducted during 2019 - 2020 EVEN semester

Sl.No.	Nameofthedepartment	NameoftheCertificateProgram
1.	Mechanicalengineering	Nil

12. The following value-added programs will be conducted during 2019- 2020

(EVEN semester)

Sl.No.	Nameofthedepartment	NameoftheValue-addedprograms
5.	Mechanicalengineering	nil

Resolutions:



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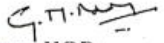
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- Allocation of subjects for staff senior staff to take first year classes.
- Classteachers/mentors/labinchargesaremade.
- Lab instructors to be changed on priority basis so that each should be able to handleall mechanical labs.
- Mentor menteelist approved.


PROFESSOR & HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
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Departmental Committee Meeting – BIOTECHNOLOGY

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019 -2020 –(ODD)

The department curriculum committee was made and the meeting was held on 02/08/2019 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr. B.K.Manjunath	HOD
2.	Dr. Gangadhar gouripur	Asst.Professor
3.	Prof. Valarmathy	Asst.Professor
4.	Prof. Divakara	Asst.Professor
5.	Prof. Salma Kausar.M	Asst.Professor
6.	Prof. Ramya D L	Asst.Professor
7.	Prof. Aswathi. U	Asst.Professor

Agenda:

1. Semester planner was decided and department level coordinators work was allotted
2. General instruction & working plan of the department to be discussed
3. Updating of course files & NBA status discussion
4. Action plan to execute department activity.
5. Other points if any to be discussed

Summary: Minutes

1. Faculties were allotted with coordinator workload for the new academic year



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2. Each faculty was assigned with theory & practical subject workload
3. faculties were asked to inform students about the digital library in the college & make use of it effectively'
4. All faculties were informed to strictly monitor the attendance & IA performance of students.
5. All faculties were informed to ensure every class performs at least 2 activities.

Resolutions:

6. To achieve better results and aiming for many more VTU ranks.
7. To encourage students to undergo Certificate/Value Added courses.
8. To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the department
DR. B.K. MANJUNATHA
Professor & Head
Department of Biotechnology
The Oxford College of Engineering
Bangaluru-560 068

HOD (SEAL)



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Departmental Committee Meeting – BIOTECHNOLOGY

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 –(EVEN)

The department curriculum committee was made and the meeting was held on 07/02/2020 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr. B.K.Manjunath	HOD
2.	Dr. Gangadhar gouripur	Asst.Professor
3.	Dr. Valarmathy	Asst.Professor
4.	Prof. Divakara	Asst.Professor
5.	Prof. Salma Kausar.M	Asst.Professor
6.	Prof. Mamatha B	Asst.Professor
7.	Prof. Aswathi. U	Asst.Professor

Agenda:

1. Semester planner was decided and department level coordinators work was allotted
2. General instruction & working plan of the department to be discussed
3. Updating of course files
4. Faculty assigning of project guides, scrutinizing of project domain & title
5. Action plan to execute department activity.
6. Other points if any to be discussed

Summary: Minutes

1. HOD, Dr. Kusum Paul welcomed all the faculty and explained VTU, EVEN semester regulations.



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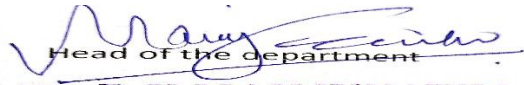
- HOD informed about the Semester plan for 2019-20 even semester and mentioned the activities planned in the department.
- Syllabus copy prescribed by the university circulated to the students and faculty.
- Faculties were informed to make students select the elective subjects for even semester.
- HOD informed faculty coordinator to plan for Industrial visits/ field visit.
- Planning for the (Final Year's) Project Works / Internships (with company names and details) was intimated by HOD.
- Mentor mentee list – discussion was done and the document updating status & deadline was informed to all the faculties.
- The following value-added programs will be conducted during 2019 – 2020 EVEN semester.

The following value-added programs will be conducted during 2019 – 2020 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
1	BT	C, C++ programming OOPS,biopython
2.	BT	Soft skill & Aptitude training

Resolutions:

- To achieve better results and aiming for many more VTU ranks.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the department
DR. B.K. MANJUNATHA
Professor & Head
Department of Biotechnology
The Oxford College of Engineering
Bangaluru-560 068

HOD



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Departmental Committee Meeting – (CIVIL)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 –(ODD)

The department curriculum committee was made and the meeting was held on 24/07/2019 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. T S Malleshaiah	Professor
2	Mr Shivanand C G	Assot Professor
3	Mr. Prashanth	Asst. Professor
4	Mr. Maheshkumar	Asst. Professor
5	Ms. Kavya	Asst. Professor
6	Ms. Harsha	Asst. Professor
7	Ms. Shradha	Asst. Professor
8.	Mrs.Nayana B S	Asst .Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1.HOD, Dr. T S Malleshaiah welcomed all the faculty and explained VTU, ODD semester regulations.



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2.As per the VTU regulation guidelines the students of all Odd semester should follow it.

3.VTU has introduced Choice Based Credit System (CBCS).

4.Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	18CV734	Ground Water Hydraulics
2	18CV745	Urban transport planning

5.The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.

6.Department announced to conduct the regular seminars to the students.

7.Department plans for Field Visit / Industrial Visit.

8.Planning for the Final Year's Project Works / Internships.


9.Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2019 – 2020 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	CIVIL	Revit Architecture

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the Department
Department of Civil Engineering
The Oxford College of Engineering
Bangalore - 560 068.



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Departmental Committee Meeting – (CIVIL)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 –(EVEN)

The department curriculum committee was made and the meeting was held on 10/02/2020 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. T S Malleshaiah	Professor
2	Mr Shivanand C G	Assot Professor
3	Mr. Prashanth	Asst. Professor
4	Mr. Maheshkumar	Asst. Professor
5	Ms. Kavya	Asst. Professor
6	Ms. Harsha	Asst. Professor
7	Ms. Shradha	Asst. Professor
8.	Mrs.Nayana B S	Asst .Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:



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- 1.HOD, Dr.T S Malleshaiah welcomed all the faculty and explained VTU, EVEN semester regulations.
- 2.Semester plan for 2019-20 even semester and mentioning the activities planned in the department.


Sl. No.	CBCS ELECTIVE/MATDIP	
1	18CV825	Pavement Design

- 3.The discussion of the subjects of CBCS given in the above table, selected by the students.
- 4.Syllabus copy prescribed by the university circulated to the students and faculty.
- 5.Department announced to conduct the regular seminars to the students.
- 6.Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
- 7.Department plans for Field Visit / Industrial Visit.
- 8.Planning for the Final Year's Project Works / Internships.
- 9.Mentor mentee list – discussion
- 10.The following certificate programs will be conducted during 2019 – 2020 EVEN semester

Sl. No.	Name of the department	Name of the Certificate Program
1	CIVIL	Soft Skill and Training

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the Department
Department of Civil Engineering
The Oxford College of Engineering
Bangalore - 560 068.



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Departmental Committee Meeting – (Automobile Engineering)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 –(ODD)

The department curriculum committee was made and the meeting was held on 25/07/2019 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. Raju B R	Professor
2	Dr.K.Sathish Babu	Professor
3	Mr. Sandeep K Chavan	Assot. Professor
4	Mr. Maruthi S B	Asst. Professor
5	Mr. Deepak U. S	Asst. Professor
6	Mr. Raviteja R. N	Asst. Professor
7	Mr.Sapthagiri Prasad N	Asst. Professor
8	Mr.Prasanna S M	Asst. Professor
9	Mr. Karthik. K	Asst. Professor
10	Mr.Shivrudrappa Desai	Asst. Professor
11	Mr.VikasBevoor	Asst. Professor
12	Mr.Santhosh K	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship



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- Implementation of feedback from different stakeholders.

Minutes of Meeting:

- 1.HOD, Dr.Raju B R welcomed all the faculty and explained VTU, ODD semester regulations.
- 2.As per the VTU regulation guidelines the students of all odd semester should follow it.
- 3.VTU has introduced Choice Based Credit System (CBCS) 2018-19 scheme.
- 4.Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	15AU741	Earth Moving Equipment & Tractors
2	15AU754	Two And Three Wheeled Vehicle
3	17AU551	CAD/CAM
4	17AU562	Alternative Energy Sources for Automobiles
5	18KVK/KAK/39/49 18CPC39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
6	18MATDIP31	Additional Mathematics –I

- 5.The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
- 6.Department announced to conduct the regular seminars to the students.
- 7.Department plans for Field Visit / Industrial Visit.
- 8.Planning for the Final Year's Project Works / Internships.
- 9.Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2019 – 2020 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
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Ph: 080-61754601/602, Fax: 080 - 25730551

E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

18.	Automobile Engg.	Soft Skill Training
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Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

Professor & Head
Department of Automobile Engineering
The Oxford College of Engineering
Bommanahalli, Hosur Road
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Departmental Committee Meeting – (Automobile Engineering)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 –(EVEN)

The department curriculum committee was made and the meeting was held on 14/02/2020 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. Raju B R	Professor
2	Dr.K.Sathish Babu	Professor
3	Mr. Sandeep K Chavan	Assot. Professor
4	Mr. Maruthi S B	Asst. Professor
5	Mr. Deepak U. S	Asst. Professor
6	Mr. Raviteja R. N	Asst. Professor
7	Mr.Sapthagiri Prasad N	Asst. Professor
8	Mr.Prasanna S M	Asst. Professor
9	Mr. Karthik. K	Asst. Professor
10	Mr.Shivrudrappa Desai	Asst. Professor
11	Mr.VikasBevoor	Asst. Professor
12	Mr.Santhosh K	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.



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- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

- 1.HOD, Dr. Raju B R, welcomed all the faculty and explained VTU, EVEN semester regulations.
- 2.Semester plan for 2019-20 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	15AU831	Total Quality Management
2	17AU653	Composite Materials
3	17AU663	Non-destructive Testing
4	18KVK/KAK/39/49 18CPC39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
5	18MATDIP41	Additional Mathematics –II

- 3.The discussion of the subjects of CBCS given in the above table, selected by the students.
- 4.Syllabus copy prescribed by the university circulated to the students and faculty.
- 5.Department announced to conduct the regular seminars to the students.
- 6.Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
- 7.Department plans for Field Visit / Industrial Visit.
- 8.Planning for the Final Year's Project Works / Internships.
- 9.Mentor mentee list – discussion
- 10.The following certificate programs will be conducted during 2019 – 2020 EVEN semester.



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Sl. No.	Name of the department	Name of the Certificate Program
1	Automobile Engineering	CREO 3.0

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

Professor & Head
Department of Automobile Engineering
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Departmental Committee Meeting – (MTE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 –(ODD)

The department curriculum committee was made and the meeting was held on 14/07/2019 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. NB Doddapattar	Professor & HOD
2	Dr. Shivappa	Professor & HOD
3	Mr. Rajesh	Asst. Professor
4	Mr. Rgavendra	Asst. Professor
5	Mr. Ravi s Jadhav	Asst. Professor
6	Ms. Rekha	Asst. Professor
7	Ms. Premela	Asst. Professor
9	Ms. Vijaykumar kurubha	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

9. HOD, Dr. Yashoda welcomed all the faculty and explained VTU, ODD semester regulations.
10. As per the VTU regulation guidelines the students of all Odd semester should follow it.
11. VTU has introduced Choice Based Credit System (CBCS).



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12. Syllabus copy prescribed by the university circulated to the students and faculty.
13. Department announced to conduct the regular seminars to the students.
14. Department plans for Field Visit / Industrial Visit.
15. Planning for the Final Year's Project Works / Internships.
16. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2019 – 2020 odd semester


Sl. No.	Name of the department	Name of the Certificate Program
1	MTE	MATLAB
2		LEGO
3		ROBOTICS

The following value-added programs will be conducted during 2019 – 2020 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
	MTE	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


HOD
Prof. & HOD
Department of Mechatronics
The Oxford College Of Engineering
Bommanahalli Bangalore - 560 068.



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Departmental Committee Meeting – (MTE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 –(EVEN)

The department curriculum committee was made and the meeting was held on 01/02/2020 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. NB Doddapattar	Professor & HOD
2	Dr. Shivappa	Professor & HOD
3	Mr. Rajesh	Asst. Professor
4	Mr. Rgavendra	Asst. Professor
5	Mr. Ravi s Jadhav	Asst. Professor
6	Ms. Rekha	Asst. Professor
7	Ms. Premela	Asst. Professor
9	Ms. Vijaykumar kurubha	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

10. HOD, Dr. Yashoda, welcomed all the faculty and explained VTU, EVEN semester regulations.
11. Semester plan for 2019-20 even semester and mentioning the activities planned in the department.



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12. Syllabus copy prescribed by the university circulated to the students and faculty.
13. Department announced to conduct the regular seminars to the students.
14. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
15. Department plans for Field Visit / Industrial Visit.
16. Planning for the Final Year's Project Works / Internships.
17. Mentor mentee list – discussion
18. The following certificate programs will be conducted during 2019 – 2020 EVEN semester

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


HOD
Prof. & HOD
Department of Mechatronics
The Oxford College Of Engineering
Bommanahalli Bangalore - 560 068.



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MBA- DEPARTMENTAL CURRICULUM COMMITTEE MEETING
2019-2020 –(ODD)

The department curriculum committee was made and the meeting was held on 23/07/2019 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr R V Dhanalakshmi	HOD
2.	Dr.kTaraka Rami Reddy	Professor
3.	Dr Kathiravan	Associate Professor
4.	Dr. R K Prema	Assistant Professor
5.	Ms.Sahana	Assistant Professor
6.	Ms.Sireesha B	Assistant Professor

Agenda

1. Welcome faculty and discussion of new regulation.
2. Syllabus copy circulation.
3. Plan of Industrial visit.
4. Project work.

Summary: Minutes

1. HOD, Dr. R V Dhanalakshmi welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. Syllabus copy prescribed by the university circulated to the students and faculty.



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4. Department announced to conduct the regular seminars to the students.
5. Department plans for Field Visit/ Industrial Visit.
6. Planning for the (Final Year's)Project Works / Internships (with company names and details).
7. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

Resolutions:

1. Syllabus copy has be discussed and circulated on before 25th July.
2. Seminars and presentations by department has to be conducted within 5th august 2019.
3. Industrial visit for the study of organization has be done on before 15th august 2019.

HOD, Deptt. of Business Administration
The Oxford College of Engineering
Bommanahalli, Hosur Road
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MBA-DEPARTMENTAL CURRICULUM COMMITTEE MEETING
2019-2020 –(EVEN)

The department curriculum committee was made and the meeting was held on 10/02/2020 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr R V Dhanalakshmi	HOD
2.	Dr.kTaraka Rami Reddy	Professor
3.	Dr Kathiravan	Associate Professor
4.	Dr. R K Prema	Assistant Professor
5.	Ms.Sahana	Assistant Professor
6.	Ms.Sireesha B	Assistant Professor
7.	Ms Padmaja P	Assistant Professor

Agenda:

1. Welcome faculty and regulation discussion.
2. Syllabus copy and new regulations.
3. Industrial visit.
4. Internship and project.

Summary: Minutes

1. HOD, Dr. R V Dhanalakshmi welcomed all the faculty and explained VTU, ODD semester regulations.
2. Semester plan for 2019-20 even semester and mentioning the activities planned in the department.



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3. Syllabus copy prescribed by the university circulated to the students and faculty.
4. Department announced to conduct the regular seminars to the students.
5. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
6. Department plans for Field Visit / Industrial Visit.
7. Planning for the (Final Year's) Project Works / Internships (with company names and details).
8. Mentor mentee list – discussion

Resolutions:

1. Syllabus has to be circulated before 12th Feb.
2. Seminars and other activities plan by all faculty should be submit on before 20thFeb.
3. Project work /Internship topic should be finalised within 22nd Feb.
4. Students and mentee meeting and report of feedback on before 20th Feb.

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Departmental Committee Meeting – (MCA)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 –(ODD)

The department curriculum committee was made and the meeting was held on 26/07/2019 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. M S Shashidhara	Professor
2	Dr. Praveen Kumar P U	Professor
3	Dr.Susil Kumar Sahu	Professor
4	Mr.Ashok B P	Assot. Professor
5	Mr. Dharamvir	Assot. Professor
6	Mr. JC Achutha	Assot. Professor
7	Mrs. Saritha S	Assot. Professor
8	Mrs. Mridula Shukla	Assot. Professor
9	Mrs. Selvi E	Assot. Professor
10	Ms. R Ushasree	Asst. Professor
11	Mr. Changappa M R	Asst. Professor
12	Mr. Indrakumar S S	Asst. Professor
13	Mrs. Stuti Agarwal	Asst. Professor
14	T Sreevani	Asst. Professor
15	Divyasree Nayak	Asst. Professor
16	Mr. Chandran M	Asst. Professor
17	Mrs.Selastina Mary A	Asst. Professor
18	Mrs.Moumita Kali	Asst. Professor

Agenda:



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- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

9. HOD, Dr. M S Shashidhara welcomed all the faculty and explained VTU, ODD semester regulations.
10. As per the VTU regulation guidelines the students of all Odd semester should follow it.
11. VTU has introduced Choice Based Credit System (CBCS).
12. Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	18MCA46	Professional Communication & Report Writing
2	18MCA53	Machine Learning
3	18MCA542	Computer Graphics
4	18MCA543	Image Processing

13. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
14. Department announced to conduct the regular seminars to the students.
15. Department plans for Field Visit / Industrial Visit.
16. Planning for the Final Year's Project Works / Internships.
17. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
18. The following certificate programs will be conducted during 2019 – 2020 EVEN semester

Sl. No.	Name of the department	Name of the Certificate Program
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1	MCA	C++,Java, Advance Java
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The following value-added programs will be conducted during 2019 – 2020 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
19.	MCA	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Signature of the HOD
Dr. M.S.Shashidhara
Dept. of MCA



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Departmental Committee Meeting – (MCA)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 –(EVEN)

The department curriculum committee was made and the meeting was held on 19/02/2020 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. M S Shashidhara	Professor
2	Dr. Praveen Kumar P U	Professor
3	Dr.Susil Kumar Sahu	Professor
4	Mr.Ashok B P	Assot. Professor
5	Mr. Dharamvir	Assot. Professor
6	Mr. JC Achutha	Assot. Professor
7	Mrs. Saritha S	Assot. Professor
8	Mrs. Mridula Shukla	Assot. Professor
9	Mrs. Selvi E	Assot. Professor
10	Ms. R Ushasree	Asst. Professor
11	Mr. Changappa M R	Asst. Professor
12	Mr. Indrakumar S S	Asst. Professor
13	Mrs. Stuti Agarwal	Asst. Professor
14	T Sreevani	Asst. Professor
15	Divyasree Nayak	Asst. Professor
16	Mr. Chandran M	Asst. Professor
17	Mrs.Selastina Mary A	Asst. Professor
18	Mrs.Moumita Kali	Asst. Professor



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Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. M S Shashidhara, welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2019-20 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	18MCA46	Professional Communication & Report Writing
2	18MCA53	Machine Learning
3	18MCA542	Computer Graphics
4	18MCA543	Image Processing

3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.



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6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Mentor mentee list – discussion

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Signature of the HOD
Dr. M.S. Shashidhara
Dept. of MCA



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List and Description of courses (1) Subject, (2) Subject Code, (3) Curriculum Objective, (4) Delivery Methodology with Number of hours, (5) PO, PSO, CO Mapping, (6) Crosscutting Issues Integrated which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Dept. of Computer Science & Engineering

2019-20

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Choice Based Credit System (CBCS) AND Outcome Based Education (OBE)												
(Effective from the academic year 2018 – 19)												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
	L	T	P									
1	BSC	18MAT31	Transform Calculus, Fourier Series And Numerical Techniques	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CS32	Data Structures and Applications	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS33	Analog and Digital Electronics	CS / IS	3	0	--	03	40	60	100	3
4	PCC	18CS34	Computer Organization	CS / IS	3	0	--	03	40	60	100	3
5	PCC	18CS35	Software Engineering	CS / IS	3	0	--	03	40	60	100	3
6	PCC	18CS36	Discrete Mathematical Structures	CS / IS	3	0	--	03	40	60	100	3
7	PCC	18CSL37	Analog and Digital Electronics Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL38	Data Structures Laboratory	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18KVK39	Vyavaharika Kannada (Kannada for communication)/	HSMC	-	2	-	--	100	--	100	1
		18KAK39	Aadalitha Kannada (Kannada for Administration)									
		OR	OR									
		18CPC39	Constitution of India, Professional Ethics and Cyber Law									
TOTAL					17	08		24	420	480	900	24
					OR	OR		OR	OR	OR		
					18	10	04	26	360	540		



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B. E. Common to all Programmes Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To <ul style="list-style-type: none"> • know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens • Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. • Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution: The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive: Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions: Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions: Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			
Professional / Engineering Ethics: Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering			
Module-5			



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Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for **Cyber Laws**, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be able to,

CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and **Professional ethics and responsibilities** of Engineers.

CO 3: Understand the the cybercrimes and **cyber laws** for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2018 – 19

Choice Based Credit System (CBCS) AND Outcome Based Education (OBE)

(Effective from the academic year 2018 – 19)

V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	HSMC	18CS51	Management, Entrepreneurship for IT industry	HSMC	2	2	--	03	40	60	100	3
2	PCC	18CS52	Computer Networks and Security	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS53	Database Management System	CS / IS	3	2	--	03	40	60	100	4
4	PCC	18CS54	Automata theory and Computability	CS / IS	3	--	--	03	40	60	100	3
5	PCC	18CS55	Application Development using Python	CS / IS	3	--	--	03	40	60	100	3
6	PCC	18CS56	Unix Programming	CS / IS	3	--	--	03	40	60	100	3
7	PCC	18CSL57	Computer Network Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL58	DBMS Laboratory with mini project	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting: Civil Engineering Board]	1	--	--	02	40	60	100	1
TOTAL					18	10	04	26	360	540	900	25
Note: PCC: Professional Core, HSMC: Humanity and Social Science.												
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.												



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B. E. COMMON TO ALL PROGRAMMES
Choice Based Credit System (CBCS) and Outcome Based Education
(OBE) SEMESTER – V

ENVIRONMENTAL STUDIES

Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02

Module - 1

Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake.
Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.

Module - 2

Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind.
Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.

Module - 3

Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and Air Pollution.
Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.

Module - 4

Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.

Module - 5

Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs.

Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.

Course Outcomes: At the end of the course, students will be able to:

- CO1: Understand the principles of ecology and **environmental issues** that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate **ecology** knowledge of a complex relationship between biotic and abiotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.



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Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition, 2018
3	Environmental Studies – From Crisis to Cure	RRajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition



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B.E Information Science & Engineering

Scheme

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)												
III SEMESTER												
Sl. No	Course and Course Code	Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits	
				Theory	Tutorial	Practical	Duration in Hours	CIE Marks	SEE Marks	Total Marks		
				L	T	P						
1	BSC 18MAT31	Transform Calculus, Fourier Series And Numerical Techniques	Mathematics	2	2	--	03	40	60	100	3	
2	PCC 18CS32	Data Structures and Applications	CS / IS	3	2	--	03	40	60	100	4	
3	PCC 18CS33	Analog and Digital Electronics	CS / IS	3	0	--	03	40	60	100	3	
4	PCC 18CS34	Computer Organization	CS / IS	3	0	--	03	40	60	100	3	
5	PCC 18CS35	Software Engineering	CS / IS	3	0	--	03	40	60	100	3	
6	PCC 18CS36	Discrete Mathematical Structures	CS / IS	3	0	--	03	40	60	100	3	
7	PCC 18CSL37	Analog and Digital Electronics Laboratory	CS / IS	--	2	2	03	40	60	100	2	
8	PCC 18CSL38	Data Structures Laboratory	CS / IS	--	2	2	03	40	60	100	2	
9	HSMC	18KVK39	Vyavaharika Kannada (Kannada for communication)/	HSMC	-	2	--	100	--	100	1	
		18KAK39	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39	Constitution of India, Professional Ethics and Cyber Law									
TOTAL				17	08		24	420	480	900	24	
				OR	OR		OR	OR	OR			
				18	10	04	26	360	540			

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course

18KVK39 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and **18KAK39** Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)												
IV SEMESTER												



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Sl. No	Course and Course Code	Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
				Theory	Tutorial	Practical	Duration in Weeks	CIE Marks	SEE Marks	Total Marks	
				L	T	P					
1	BSC 18MAT41	Complex Analysis, Probability And Statistical Methods	Mathematics	2	2	--	03	40	60	100	3
2	PCC 18CS42	Design and Analysis of Algorithms	CS / IS	3	2	--	03	40	60	100	4
3	PCC 18CS43	Operating Systems	CS / IS	3	0	--	03	40	60	100	3
4	PCC 18SC44	Microcontroller and Embedded Systems	CS / IS	3	0	--	03	40	60	100	3
5	PCC 18CS45	Object Oriented Concepts	CS / IS	3	0	--	03	40	60	100	3
6	PCC 18CS46	Data Communication	CS / IS	3	0	--	03	40	60	100	3
7	PCC 18CSL47	Design and Analysis of Algorithm Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC 18CSL48	Microcontroller and Embedded Systems Laboratory	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18KVK49	Vyavaharika Kannada (Kannada for communication)/	HSMC	-	2	--	100	--	100	1
		18KAK49	Aadalitha Kannada (Kannada for Administration)								
		OR	OR								
		18CPC39	Constitution of India, Professional Ethics and Cyber Law								
TOTAL				17	08	04	24	420	480	900	24
				OR	OR	OR	OR	OR			
				18	10	26	360	540			

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course

18KVK49 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and **18KAK49** Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

10	NCMC	18MATDIP41	Additional Mathematics - II	Mathematics	02	01	--	03	40	60	100	0
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(a) The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B.Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/ fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the student have to fulfil the requirements during subsequent semester/s to appear for SEE.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2018 – 19

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)

V SEMESTER

					Teaching Hours	Examination	
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Sl. No	Course and Course code		Course Title		/Week			Duration in hours	CIE Marks	SEE Marks	Total Marks	
					Theory Lecture	Tutorial	Practical					
					L	T	P					
1	HSMC	18CS51	Management, Entrepreneurship for IT Industry	HSMC	2	2	--	03	40	60	100	3
2	PCC	18CS52	Computer Networks and Security	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS53	Database Management System	CS / IS	3	2	--	03	40	60	100	4
4	PCC	18CS54	Automata theory and Computability	CS / IS	3	--	--	03	40	60	100	3
5	PCC	18CS55	Application Development using Python	CS / IS	3	--	--	03	40	60	100	3
6	PCC	18CS56	Unix Programming	CS / IS	3	--	--	03	40	60	100	3
7	PCC	18CSL57	Computer Network Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL58	DBMS Laboratory with mini project	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting: Civil Engineering Board]	1	--	--	02	40	60	100	1
TOTAL					18	10	04	26	360	540	900	25

Note: PCC: Professional Core, HSMC: Humanity and Social Science.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

B. E. Common to all Programmes Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			



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Introduction to Indian Constitution:

The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. **Fundamental Rights** and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.

Module-2

Union Executive and State Executive:

Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.

Module-3

Elections, Amendments and Emergency Provisions:

Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.

Constitutional special provisions:

Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.

Module-4

Professional / Engineering Ethics:

Scope & Aims of Engineering & **Professional Ethics** - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering

Module-5

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for **Cyber Laws**, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be

- able to, CO 1: Have constitutional knowledge and legal literacy.
- CO 2: Understand Engineering and **Professional ethics and responsibilities** of Engineers.
- CO 3: Understand the the cybercrimes and **cyber laws** for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
---------	-------------------	----------------------	-----------------------	------------------

Textbook/s



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1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004

B. E. COMMON TO ALL PROGRAMMES
Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V

ENVIRONMENTAL STUDIES

Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02

Module - 1

Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake.
Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.

Module - 2

Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind.
Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.

Module - 3

Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and Air Pollution.
Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.

Module - 4

Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.

Module - 5



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<p>Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs.</p> <p>Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.</p>				
<p>Course Outcomes: At the end of the course, students will be able to:</p> <ul style="list-style-type: none"> • CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale, • CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment. • CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components. • CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues. 				
<p>Question paper pattern:</p> <ul style="list-style-type: none"> • The Question paper will have 100 objective questions. • Each question will be for 01 marks • Student will have to answer all the questions in an OMR Sheet. • The Duration of Exam will be 2 hours. 				
Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition, 2018
3	Environmental Studies – From Crisis to Cure	R Rajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition



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B.E Electronics & Communication Engineering

B. E. Common to all Programmes Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To <ul style="list-style-type: none"> know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1 Introduction to Indian Constitution: The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2 Union Executive and State Executive: Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3 Elections, Amendments and Emergency Provisions: Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences. Constitutional special provisions: Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			



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Professional / Engineering Ethics:

Scope & Aims of Engineering & **Professional Ethics** - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering

Module-5

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for **Cyber Laws**, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be

able to, CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and **Professional ethics and responsibilities** of Engineers.

CO 3: Understand the the cybercrimes and **cyber laws** for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
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B. E. COMMON TO ALL PROGRAMMES

Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V

ENVIRONMENTAL STUDIES

Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			



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<p>Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.</p>				
<p>Module - 2</p> <p>Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.</p>				
<p>Module - 3</p> <p>Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and AirPollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.</p>				
<p>Module - 4</p> <p>Global Environmental Concerns (Concept, policies and case-studies):Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.</p>				
<p>Module - 5</p> <p>Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.</p>				
<p>Course Outcomes: At the end of the course, students will be able to:</p> <ul style="list-style-type: none"> • CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a globalscale, • CO2: Develop critical thinking and/or observation skills, and apply themtothe analysis of a problem or question related to theenvironment. • CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abioticcomponents. • CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complexissues. 				
<p>Question paper pattern:</p> <ul style="list-style-type: none"> • The Question paper will have 100 objectivequestions. • Each question will be for 01marks • Student will have to answer all the questions in an OMRsheet. • The Duration of Exam will be 2hours. 				
Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
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2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
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B.E Electrical & Electronics Engineering

Course Structure for B.E- 2018 scheme Regulation

Electrical and Electronics Engineering

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
III SEMESTER												
Sl No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BSC	18MAT31	Transform Calculus, Fourier Series and Numerical Techniques (Common to all Branches)	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18EE32	Electric Circuit Analysis	EEE	3	2	--	03	40	60	100	4
3	PCC	18EE33	Transformers and Generators	EEE	3	0	--	03	40	60	100	3
4	PCC	18 EE 34	Analog Electronic Circuits	EEE	2	2	--	03	40	60	100	3
5	PCC	18 EE 35	Digital System Design	EEE	3	0	--	03	40	60	100	3
6	PCC	18 EE 36	Electrical and Electronic Measurements	EEE	3	0	--	03	40	60	100	3
7	PCC	18 EE L37	Electrical Machines Laboratory -1	EEE	--	2	2	03	40	60	100	2
8	PCC	18 EE L38	Electronics Laboratory	EEE	--	2	2	03	40	60	100	2
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for communication)	HSMC	--	2	--	--	100	--	100	1
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)		--	2	--	--	100	--		
		OR			18CPC39	Constitution of India, Professional Ethics and Cyber Law	1	--	--	02			40	60
TOTAL					16	10	04	24	420	480	900	24
					OR	OR	OR	OR	OR	OR		
					17	12		26	360	540		

B. E. Common to all Programmes			
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)			
SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02



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Course Learning Objectives: To

- know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, **fundamental rights**, directive principles, and the duties of citizens
- Understand engineering ethics and their responsibilities; identify their individual roles and **ethical responsibilities towards society**.
- Know about the cybercrimes and **cyber laws** for cyber safety measures.

Module-1

Introduction to Indian Constitution:

The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. **Fundamental Rights** and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.

Module-2

Union Executive and State Executive:

Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.

Module-3

Elections, Amendments and Emergency Provisions:

Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.

Constitutional special provisions:

Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.

Module-4

Professional / Engineering Ethics:

Scope & Aims of Engineering & **Professional Ethics** - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering

Module-5

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for **Cyber Laws**, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be

- able to, CO 1: Have constitutional knowledge and legal literacy.
- CO 2: Understand Engineering and **Professional ethics and responsibilities** of Engineers.
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Question paper pattern for SEE and CIE:				
<ul style="list-style-type: none"> The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ). For the award of 40 CIE marks, refer the University regulations2018. 				
Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
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B. E. COMMON TO ALL PROGRAMMES			
Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V			
ENVIRONMENTAL STUDIES			
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.			
Module - 3			
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and AirPollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.			



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Module - 4				
Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.				
Module - 5				
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs.				
Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.				
Course Outcomes: At the end of the course, students will be able to:				
<ul style="list-style-type: none"> • CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale, • CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment. • CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components. • CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues. 				
Question paper pattern:				
<ul style="list-style-type: none"> • The Question paper will have 100 objective questions. • Each question will be for 01 marks • Student will have to answer all the questions in an OMR Sheet. • The Duration of Exam will be 2 hours. 				
Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
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1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18 EE51	Management and Entrepreneurship	EEE	3	0	--	03	40	60	100	3
2	PCC	18 EE52	Microcontroller	EEE	3	2	--	03	40	60	100	4
3	PCC	18 EE53	Power Electronics	EEE	3	2	--	03	40	60	100	4
4	PCC	18 EE54	Signals and Systems	EEE	3	--	--	03	40	60	100	3
5	PCC	18 EE55	Electrical Machine Design	EEE	3	--	--	03	40	60	100	3
6	PCC	18 EE56	High Voltage Engineering	EEE	3	--	--	03	40	60	100	3
7	PCC	18 EEL57	Microcontroller Laboratory	EEE	--	2	2	03	40	60	100	2
8	PCC	18 EEL58	Power Electronics Laboratory	EEE	--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting: Civil Engineering Board]	1	--	--	02	40	60	100	1
TOTAL					18	10	4	26	360	540	900	25
Note: PCC: Professional Core, HSMC: Humanity and Social Science.												
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.												

MANAGEMENT AND ENTREPRENEURSHIP (Core Course):

18EE51

MANAGEMENT AND ENTREPRENEURSHIP

Course Code 18EE51 CIE Marks 40

Number of Lecture Hours/Week (L:T:P) 3:0:0 SEE Marks 60

Credits 03 Exam Hours 03

Course Learning Objectives:

1. To introduce the field of management, task of the manager, importance of planning and types of planning, staff recruitment and selection process.
2. To discuss the ways in which work is allocation, structure of organizations, modes of communication and importance of managerial control in business.
3. To explain need of coordination between the manager and staff, the social responsibility of business and leadership.

Module-1 -Management: Definition, Importance – Nature and Characteristics of Management, Management Functions, Roles of Manager, Levels of Management, Managerial Skills, Management & Administration, Management as a Science, Art & Profession. Planning: Nature, Importance and



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Purpose Of Planning, Types of Plans, Steps in Planning, Limitations of Planning, Decision Making – Meaning, Types of Decisions- Steps in Decision Making.

Teaching Hours 10

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L4 – Analysing.

Module-2 Organizing and Staffing: Meaning, Nature and Characteristics of Organization – Process of Organization, Principles of Organization, Departmentalization, Committees – meaning, Types of Committees, Centralization Versus Decentralization of Authority and Responsibility, Span of Control (Definition only), Nature and Importance of Staffing, Process of Selection and Recruitment. Directing and Controlling: Meaning and Nature of Directing-Leadership Styles, Motivation Theories Communication – Meaning and Importance, Coordination- Meaning and Importance, Techniques of Coordination. Controlling – Meaning, Steps in Controlling.

Teaching Hours 10

Revised Bloom's Taxonomy Level L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-3 Social Responsibilities of Business: Meaning of Social Responsibility, Social Responsibilities of Business towards Different Groups, Social Audit, Business Ethics and Corporate Governance. Entrepreneurship: Definition of Entrepreneur, Importance of Entrepreneurship, concepts of Entrepreneurship, Characteristics of successful Entrepreneur, Classification of Entrepreneurs, Intrapreneur – An Emerging Class, Comparison between Entrepreneur and Intrapreneur, Myths of Entrepreneurship, Entrepreneurial Development models, Entrepreneurial development cycle, Problems faced by Entrepreneurs and capacity building for Entrepreneurship.

Teaching Hours 10

Revised Bloom's Taxonomy Level L3 – Applying.

Module-4 Teaching Hours Modern Small Business Enterprises: Role of Small Scale Industries, Concepts and definitions of SSI Enterprises, Government policy and development of the Small Scale sector in India, Growth and Performance of Small Scale Industries in India, Sickness in SSI sector, Problems for Small Scale Industries, Impact of Globalization on SSI, Impact of WTO/GATT on SSIs, Ancillary Industry and Tiny Industry (Definition only). Institutional Support for Business Enterprises: Introduction, Policies & Schemes of Central-Level Institutions, State-Level Institutions

Teaching Hours 10

Revised Bloom's Taxonomy Level L3 – Applying.

Module-5 Project Management: Meaning of Project, Project Objectives & Characteristics, Project Identification Meaning & Importance; Project Life Cycle, Project Scheduling, Capital Budgeting, Generating an Investment Project Proposal, Project Report-Need and Significance of Report, Contents, Formulation, Project Analysis-Market, Technical, Financial, Economic, Ecological, Project Evaluation and Selection, Project Financing, Project Implementation Phase, Human & Administrative aspects of Project Management, Prerequisites for Successful Project Implementation. New Control Techniques- PERT and CPM, Steps involved in developing the network, Uses and Limitations of PERT and CPM

Teaching Hours 10

Revised Bloom's Taxonomy Level L3 – Applying, L4 – Analysing. L2 – Understanding, L4 – Analysing



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ELECTRICAL ESTIMATION AND COSTING:

Module-1 Principles of Estimation: Introduction to Estimation and Costing, **Electrical Schedule, Catalogues, Market Survey and Source Selection, Recording of Estimates, Determination of Required Quantity of Material, Labour Conditions, Determination of Cost Material and Labour, Contingencies, Overhead Charges, Profit, Purchase System, Purchase Enquiry and Selection of Appropriate Purchase Mode, Comparative Statement, Purchase Orders, Payment Of Bills, Tender Form, General Idea about IE Rule, Indian Electricity(IE) Act and IE Rules -29,30,45,46,47,50,51,54,55,77 and79.**

Teaching Hours 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding.

Module-2 Wiring: Introduction, **Distribution of energy in a Building,** PVC Casing and Capping, Conduit Wiring, Desirabilities of Wiring. Types of cables used in Internal Wiring, Multi Strand Cables, Voltage Grading and Specification of Cables Wiring (continued): Main Switch and Distribution Board, Conduits and its accessories and Fittings. Lighting Accessories and Fittings, Types of Fuses, Size of Fuse, Fuse Units, Earthing Conductor. Internal Wiring: **General rules for wiring,** Design of Lighting Points (Refer to Seventh Chapter of the Textbook), Number of Points, Determination of Total Load, Number of Sub –Circuits, Ratings Main Switch and Distribution Board and Size of Conductor. Current Density, Layout.

Teaching Hours 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-3 Service Mains: Introduction, Types, Estimation of Underground and Overhead Service Connections. Design and Estimation of Power Circuits: Introduction, Important Considerations Regarding Motor Installation Wiring, Input Power, Input Current to Motors, Rating of Cables, Rating of Fuse, Size of Condit, Distribution Board Main Switch and Starter.

Teaching Hours 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-4 Estimation of Overhead Transmission and Distribution Lines: (Review of Line Supports, Conductor Materials, Size of Conductor for Overhead Transmission Line, Types of Insulators)[No Question Shall be Set From the Review Portion]. Cross Arms, Pole Brackets and Clamps, Guys and Stays, Conductors Configuration Spacing and Clearances, Span Lengths, Lightning Arrestors, Phase Plates, Danger Plates, Anti Climbing Devices, Bird Guards, Beads of Jumpers, Muffs, Points to be Considered at the Time of Erection of Overhead Lines, Erection of Supports, Setting of Stays, Fixing of Cross Arms, Fixing of Insulators, Conductor Erection. Repairing and Jointing of Conductors, Dead End Clamps, Positioning of Conductors and Attachment to Insulators, Jumpers, Tee-Offs, Earthing of Transmission Lines, Guarding of Overhead Lines, Clearances of Conductor From Ground, Spacing Between Conductors, Important Specifications.

Teaching Hours 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding. L3 – Applying, L4 – Analysing

Module-5 Estimation of Substations: Main Electrical connection, Graphical Symbols for Various Types of Apparatus and Circuit Elements on Substation main Connection Diagram, Single Line



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Diagram of Typical Substations, Equipment for Substation, Substation Auxiliaries Supply, Substation Earthing.

Teaching Hours 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding

RENEWABLE ENERGY RESOURCES

Module-1 Introduction: Causes of Energy Scarcity, Solution to Energy Scarcity, Factors Affecting Energy Resource Development, Energy Resources and Classification, Renewable Energy – Worldwide Renewable Energy Availability, Renewable Energy in India. Energy from Sun: Sun- earth Geometric Relationship, Layer of the Sun, Earth – Sun Angles and their Relationships, Solar Energy Reaching the Earth's Surface, Solar Thermal Energy Applications.

Teaching Hours 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying.

Module-2 Solar Thermal Energy Collectors: Types of Solar Collectors, Configurations of Certain Practical Solar Thermal Collectors, Material Aspects of Solar Collectors, Concentrating Collectors, Parabolic Dish – Stirling Engine System, Working of Stirling or Brayton Heat Engine, Solar Collector Systems into Building Services, Solar Water Heating Systems, Passive Solar Water Heating Systems, Applications of Solar Water Heating Systems, Active Solar Space Cooling, Solar Air Heating, Solar Dryers, Crop Drying, Space Cooling, Solar Cookers, Solar pond. Solar Cells: Components of Solar Cell System, Elements of Silicon Solar Cell, Solar Cell materials, Practical Solar Cells, I – V Characteristics of Solar Cells, Efficiency of Solar Cells, Photovoltaic Panels, Applications of Solar Cell Systems.

Teaching Hours 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-3 Hydrogen Energy: Benefits of Hydrogen Energy, Hydrogen Production Technologies, Hydrogen Energy Storage, Use of Hydrogen Energy, Advantages and Disadvantages of Hydrogen Energy, Problems Associated with Hydrogen Energy. Wind Energy: Windmills, Wind Turbines, Wind Resources, Wind Turbine Site Selection. Geothermal Energy: Geothermal Systems, Classifications, Geothermal Resource Utilization, Resource Exploration, Geothermal Based Electric Power Generation, Associated Problems, environmental Effects. Solid waste and Agricultural Refuse: Waste is Wealth, Key Issues, Waste Recovery Management Scheme, Advantages and Disadvantages of Waste Recycling, Sources and Types of Waste, Recycling of Plastics.

Teaching Hours 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-4 Biomass Energy: Biomass Production, Energy Plantation, Biomass Gasification, Theory of Gasification, Gasifier and Their Classifications, Chemistry of Reaction Process in Gasification, Updraft, Downdraft and Cross-draft Gasifiers, Fluidized Bed Gasification, Use of Biomass Gasifier, Gasifier Biomass Feed Characteristics, Applications of Biomass Gasifier, Cooling and Cleaning of Gasifiers. Biogas Energy: Introduction, Biogas and its Composition, Anaerobic Digestion, Biogas Production, Benefits of Biogas, Factors Affecting the Selection of a Particular Model of a Biogas Plant, Biogas Plant Feeds and their Characteristics. Tidal Energy: Introduction, Tidal Energy Resource, Tidal Energy Availability, Tidal Power Generation in India, Leading Country in Tidal



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Power Plant Installation, Energy Availability in Tides, Tidal Power Basin, Turbines for Tidal Power, Advantages and Disadvantages of Tidal Power, Problems Faced in Exploiting Tidal Energy.

Teaching Hours 08 Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-5 Sea Wave Energy: Introduction, Motion in the sea Waves, Power Associated with Sea Waves, Wave Energy Availability, Devices for Harnessing Wave Energy, Advantages and Disadvantages of Wave Power. Ocean Thermal Energy: Introduction, Principles of Ocean Thermal Energy Conversion (OTEC), Ocean Thermal Energy Conversion plants, Basic Rankine Cycle and its Working, Closed Cycle, Open Cycle and Hybrid Cycle, Carnot Cycle, Application of OTEC in Addition to Produce Electricity, Advantages, Disadvantages and Benefits of OTEC.

Teaching Hours 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying.



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B.E Mechanical Engineering

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BSC	18MAT31	Mathematics	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18ME32	Mechanics of Materials		3	2	--	03	40	60	100	4
3	PCC	18ME33	Basic Thermodynamics		3	0	--	03	40	60	100	3
4	PCC	18ME34	Material Science		3	0	--	03	40	60	100	3
5	PCC	18ME35A or	Metal cutting and forming		3	0	--	03	40	60	100	3
		18ME35B	Metal Casting and Welding									
6	PCC	18ME36A or	Computer Aided Machine Drawing/		1	4	--	03	40	60	100	3
		18ME36B	Mechanical Measurements and Metrology									
7	PCC	18MEL37A or	Material Testing lab		--	2	2	03	40	60	100	2
		18MEL37B	Mechanical Measurements and Metrology lab									
8	PCC	18MEL38A	Workshop and Machine Shop Practice (Consists of Fitting, and Machining)		--	2	2	03	40	60	100	2
		18MEL38B	Foundry, Forging and Welding lab									
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60		
TOTAL					17	10	04	24	420	480	900	24
				OR	OR	OR		OR	OR	OR		
				19	14	26		360	540			

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.

18KVK39 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.



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B.E. Mechanical Engineering

V SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week			Examination			Credits	
			Lecture	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks		Total Marks
1	17ME51	Management and Engineering Economics	3	2	0	03	60	40	100	4
2	17ME52	Dynamics of Machinery	3	2	0	03	60	40	100	4
3	17ME53	Turbo Machines	3	2	0	03	60	40	100	4
4	17ME54	Design of Machine Elements - I	3	2	0	03	60	40	100	4
5	17ME55X	Professional Elective-I	3	0	0	03	60	40	100	3
6	17ME56X	Open Elective-I	3	0	0	03	60	40	100	3
7	17MEL57	Fluid Mechanics & Machinery Lab	1	0	2	03	60	40	100	2
8	17MEL58	Energy Lab	1	0	2	03	60	40	100	2
TOTAL			20	08	04		480	320	60	40

Professional Elective-I		Open Elective-I	
17ME551	Refrigeration and Air-conditioning	17ME561	Optimization Techniques
17ME552	Theory of Elasticity	17ME562	Energy and Environment
17ME553	Human Resource Management	17ME563	Automation and Robotics
17ME554	Non Traditional Machining	17ME564	Project Management

- 1. Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.
- 2. Professional Elective:** Elective relevant to chosen specialization/ branch
- 3. Open Elective:** Electives from other technical and/or emerging subject areas.

B. E. Common to all Programmes
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
SEMESTER - III

CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)

Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02

Course Learning Objectives: To

- know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, **fundamental rights**, directive principles, and the duties of citizens
- Understand engineering ethics and their responsibilities; identify their individual roles and **ethical responsibilities towards society**.
- Know about the cybercrimes and **cyber laws** for cyber safety measures.

Module-1

Introduction to Indian Constitution:

The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. **Fundamental Rights** and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present



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relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.

Module-2

Union Executive and State Executive:

Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.

Module-3

Elections, Amendments and Emergency Provisions:

Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.

Constitutional special provisions:

Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.

Module-4

Professional / Engineering Ethics:

Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering

Module-5

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for Cyber Laws, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be able to, CO 1: Have constitutional knowledge and legal literacy.
 CO 2: Understand Engineering and Professional ethics and responsibilities of Engineers.
 CO 3: Understand the the cybercrimes and cyber laws for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et	Cengage	2018



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		al	Learning India	
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004

B. E. COMMON TO ALL PROGRAMMES			
Choice Based Credit System (CBCS) and Outcome Based Education			
(OBE) SEMESTER – V			
ENVIRONMENTAL STUDIES			
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.			
Module - 3			
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and Air Pollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.			
Module - 4			
Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.			
Module - 5			
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief			



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documentation.

Course Outcomes: At the end of the course, students will be able to:

- CO1: Understand the principles of ecology and **environmental issues** that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate **ecology** knowledge of a complex relationship between biotic and abiotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.

Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR sheet.
- The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition, 2018
3	Environmental Studies – From Crisis to Cure	RRajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition



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MANAGEMENT AND ENGINEERING ECONOMICS
B.E, V Semester, Mechanical Engineering
[As per Choice Based Credit System (CBCS) scheme]

Course Code	17ME51	CIE Marks	40
Number of Lecture Hours/Week	04	SEE Marks	60
Total Number of Lecture Hours	50(10 Hours per Module)	Exam Hours	03

Credits – 04

Course Objectives:

- Examine the meaning, importance, nature of management, its difference between management and administration and role of managers in management.
- Examine the meaning characteristics principles and process of organizing.
- Describe effective communication process, its importance, types and purpose for running an organization.
- Explain the importance of engineering economics, Law of demand and supply in engineering decision making.
- Describe various interest rate factors and implement the same for economic decision making.
- Examine different economic analysis methods-NPW, EAW, IRR, FW for decision making.
- Discuss different component of costs and methods of cost estimation.
- Explain depreciation, different methods of computing depreciation.
- Discuss taxation concepts-income tax and corporate taxes.

Module - 1

Management: Introduction - Meaning - nature and characteristics of Management, Scope and Functional areas of management - Management as science, art of profession - Management & Administration - Roles of Management, Levels of Management, Development of Management Thought-early management approaches – Modern management approaches.

Planning: Nature, importance and purpose of planning process Objectives -Types of plans (Meaning Only) - Decision making Importance of planning -steps in planning & planning premises - Hierarchy of plans.



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Module - 2

Organizing And Staffing: Nature and purpose of organization Principles of organization - Types of organization - Departmentation Committees-Centralization Vs Decentralization of authority and responsibility - Span of control - MBO and MBE (Meaning Only) Nature and importance of staffing--:Process of Selection & Recruitment (in brief).

Directing & Controlling: Meaning and nature of directing Leadership styles, Motivation Theories, Communication - Meaning and importance - coordination, meaning and importance and Techniques of Coordination. Meaning and steps in controlling - Essentials of a sound control system - Methods of establishing control (in brief)

Module - 3

Introduction: Engineering and economics, Problem solving and decision making, Laws of demand and supply, Difference between Microeconomics & Macroeconomics, equilibrium between demand & supply, elasticity of demand, price elasticity, income elasticity.

Law of Returns, Interest and interest factors, simple and compound interest, Cash flow diagrams, personal loans and EMI payment calculation with flexible interest rates, Discussion and problems

Module - 4

Present, future and annual worth and rate of returns: Basic present worth comparisons, Present worth-equivalence, Assets with unequal lives and infinite lives, future worth comparisons, payback comparisons, Equivalent annual worth comparisons, situations for annual worth comparisons.

Asset life, Rate of return, minimum acceptable rate of return, IRR anomalies and misconceptions, Cost of capital, comparisons of all present future and annual worth with IRR, product costing, Discussions and problems

Module - 5

Costing and depreciation: Components of costs, estimation of selling price, marginal cost, first cost, all kinds of overheads, indirect cost estimation with depreciation, mensuration and estimation of material cost, cost estimation of mechanical process, idling time.

Product costing (approaches to product costing), causes of depreciation, methods of computing depreciation charges, straight line method, declining balance method, sum of years method, sinking fund method, service output methods, taxation concepts, personal income taxes and corporate taxes, Discussions and problems.

Course outcomes:

On completion of this subject students will be able to

1. Explain the development of management and the role it plays at different levels in an organization.
2. Comprehend the process and role of effective planning, organizing and staffing for the development of an organization.
3. Understand the necessity of good leadership, communication and coordination for establishing effective control in an organization.
4. Understand engineering economics demand supply and its importance in economics decision making and problem solving.
5. Calculate present worth, annual worth and IRR for different alternatives in economic decision making.
6. Understand the procedure involved in estimation of cost for a simple component, product costing and depreciation, its methods.



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B.E Biotechnology

B. E. Common to all Programmes Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> • know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens • Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. • Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution:			
The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive:			
Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions:			
Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions:			
Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			



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Professional / Engineering Ethics:

Scope & Aims of Engineering & **Professional Ethics** - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering

Module-5

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for **Cyber Laws**, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be

able to, CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and **Professional ethics and responsibilities** of Engineers.

CO 3: Understand the the cybercrimes and **cyber laws** for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004

B. E. COMMON TO ALL PROGRAMMES

Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V

ENVIRONMENTAL STUDIES

Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			



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<p>Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.</p>				
<p>Module - 2</p> <p>Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.</p>				
<p>Module - 3</p> <p>Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and AirPollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.</p>				
<p>Module - 4</p> <p>Global Environmental Concerns (Concept, policies and case-studies):Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.</p>				
<p>Module - 5</p> <p>Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.</p>				
<p>Course Outcomes: At the end of the course, students will be able to:</p> <ul style="list-style-type: none"> • CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a globalscale, • CO2: Develop critical thinking and/or observation skills, and apply themtothe analysis of a problem or question related to theenvironment. • CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abioticcomponents. • CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complexissues. 				
<p>Question paper pattern:</p> <ul style="list-style-type: none"> • The Question paper will have 100 objectivequestions. • Each question will be for 01marks • Student will have to answer all the questions in an OMRSheet. • The Duration of Exam will be 2hours. 				
Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition· 2018



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3	Environmental Studies– From Crisis to Cure	RRajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of Environmental Science andEngineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh& Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition

BIOTECHNOLOGY FOR SUSTAINABLE ENVIRONMENT

[As per Choice Based Credit System (CBCS) scheme] SEMESTER

-V

Sub.Code:	15BT563	I.A Marks:	20
Hours/week:	3	Exam Hrs. :	4
Total Hours:	40	Exam Marks :	80

CREDITS– 03

Course objectives:

This course will enable student to learn

- The underlying concepts of Environment and its pollution.
- Treatment of wastewater and solid waste.
- The importance of Biofuels against conservative fuels

MODULE– 1

WATER POLLUTION AND TREATMENT OF

WASTEWATER: Water as Resource, Drinking water quality, water consumption standards, Types of Water Pollutants and sources, State and central wastewater quality and its various discharge standards. Wastewater Sampling and Characteristics - Physical, Chemical and Biological characteristics of wastewater: Solving numerical on the sampling, characteristics and estimation of wastewater flow rates. Biotechnological approach for water purification

L1,
L2,
L3



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MODULE-2		
TERTIARY/ADVANCED	WASTEWATER TREATMENT: Secondary/Biologicaltreatmentprocess,aerobic/anaerobicattachedand dsuspendedgrowthprocess,Sludgetreatment&Disposal.Ultrafiltration,Filtration,AdsorptiononActivatedCarbon,IonExchange,ReverseOsmosis,Electrodialysis cell. Wastewater treatment in Industries: PaperandPulp,distillery,Leather,FoodprocessingsuchdairyandfruitprocessingandTextileprocessing.	L2, L3, L4
MODULE- 3		
AIRPOLLUTIONANDNOISEPOLLUTION	Sources,Classification,Propertiesofairpollutants,andEffectsofairpollutiononhealth,vegetationandmaterials.Airpollutionsampling:Ambientsamplingand Stacksampling,Analysis of airpollutants,ControlmethodsandEquipmentforparticulatesandgaseouspollutants,ApplicationstoIndustries:Thermalpowerplants,MetallurgicalandCementindustries.Sources,EffectsofNoise,EquipmentforNoiseMeasurement, andApproachesforNoiseControl	L2, L3, L4
MODULE- 4		
BIOFUELS: Renewableandnon-renewableresources. Conventional fuels and their environmentalimpacts.Animaloils.Modernfuelsandtheirenvironmentalimpacts.Biot echnologicalinputsinproducing good quality natural fibres. Plant sourceslikeJetropha, Pongamia etc. Waste as an energy core,energy recovery systems for urban waste, technologyevaluation,conceptofgasificationofwasteswithmoltensaltproduce low-BTUGas;pipelinegasfromsolidwastesbysyngasrecyclingprocess;conversion of feedlot wastes into pipeline gas; fuelsandchemicalsfromcrops,productionofoilfromwoodwaste,fuelsfromwoodwaste ,methanol productionfromorganic wastes		L
MODULE- 5		



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<p>SOLIDWASTEMANAGEMENT:Definitions,Characteristicsandperspectives,Typesofsolidwastes,SourcesofSolidwaste,Propertiesofsolidwaste– Numericalproblems,SolidwasteManagement –AnOverview:- Materialflowinsociety,Reductioninrawmaterialusage,Solidwastegeneration,andreusewithmaterials,energyrecovery.SolidwastemanagementthroughBiotechnologicalprocessesinvolvingHazardouswastes,Biomedicalwastes,Dairy wastes, Pulp industry wastes, Textile industrywastes,leatherindustrywastesandpharmaceutical industrywastes,petroleumwastestreatment</p>		<p>L1, L2, L3</p>
<p>Courseoutcomes: Afterstudyingthis course, students will beableto:</p> <ul style="list-style-type: none"> • Applyreasoningtoidentifythecomponentsofenvironmentalecosystemsandeffectofpollutant on environment. • Characterizethevariousparametersfortreatmentofwater,wastewaterandsolid wastefromtheirsourceto providevalid conclusions. 		
<ul style="list-style-type: none"> • Understand the impact of recovery, recycle of the useful resources from the wastes by adopting advanced techniques to demonstrate the need for sustainable development. • Identify and demonstrate the knowledge to use suitable equipment for abatement and control of air & noise pollution 		
<p>Graduate Attributes (as per NBA):</p> <ul style="list-style-type: none"> • Design / development of solutions (environmental) • Engineer and society • Professional Ethics. • Lifelong learning. • Problem analysis 		
<p>Question paper pattern:</p> <ul style="list-style-type: none"> • The question paper will have ten questions. • Each full question consists of 16 marks. • There will be 2 full questions (with a maximum of four sub questions) from each module. • Each full question will have sub questions covering all the topics under a module. • The students will have to answer 5 full questions, selecting one full question from each module. 		



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TEXT BOOKS

11. Environmental Engineering by Howard S. Peavey, Donald R. Rowe, George Techobanolous, McGraw-Hill International Editions.
12. Wastewater Engineering – Treatment, Disposal and Reuse, METCALF AND EDDY, INC. 3rd Edition Tata McGraw-Hill Publishing Company Limited.
13. Environmental Biotechnology by Foster C.F., John ware D.A., Ellis Horwood Limited.
14. ENVIRONMENTAL BIOTECHNOLOGY by INDU SHEKHAR THAKUR, IK Publishers.
15. Industrial Microbiology by L.E. Casida, Willey Eastern Ltd. Industrial Microbiology by Prescott & Dunn, CBS Publishers.

REFERENCE BOOKS

11. Fuels from Waste by Larry Anderson and David A Tillman, Academic Press.
12. Bioprocess Technology- fundamentals and applications, S O Enfors& L Hagstrom, RIT, Stockholm.
13. Comprehensive Biotechnology by M.Y. Young (Eds.), Pergamon Press.
14. Biotechnology, Economic & Social Aspects by E.J. Dasilva, C Ratledge& A Sasson, Cambridge Univ. Press, Cambridge.
15. Environmental Biotechnology by Pradipta Kumar Mahopatra.

BIO-BUSINESS AND ENTREPRENEURSHIP

[AsperChoiceBasedCreditSystem(CBCS)scheme] SEMESTER-VI

Sub.Code:	15BT61	I.AMarks:	20
Hours/week:	4	ExamHrs.:	3
TotalHours:	50	ExamMarks:	80

CREDITS-04

Course objectives: This course will enable students to learn about the project management, entrepreneurship and IPR.

MODULE-1



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<p>BIOENTERPREUNERSHIP Introduction to bio-business, from the Indian context, SWOT analysis of bio-business. Concept of Entrepreneurship- Evolution of Entrepreneurship, Development of Entrepreneurship; Stages in entrepreneurial process; Role of entrepreneurs in Economic Development; Entrepreneurship in India; Entrepreneurship- its barriers. Small scale industries: Definition; Characteristics; Need and rationale; Objectives; Scope; Market Feasibility Study; Technical Feasibility Study; Financial Feasibility Study & Social Feasibility Study. Global bio business and industry future trends.</p>	10	L1, L2
MODULE-2		
<p>ENTREPRENEURSHIP OPPORTUNITY IN AGRIBIOTECHNOLOGY Business opportunity, Essential requirement, marketing, strategies, schemes, challenges and scope- with case study on Plant cell and tissue culture technique, polyhouse culture. Herbal bulk drug production, Nutraceuticals, value added herbal products. Bioethanol production using Agriwaste, Algal source.</p>	10	L1, L2,
<p>Integration of system biology for agricultural applications. Biosensor development in Agrimanagement</p>		
MODULE-3		
<p>ENTREPRENEURSHIP OPPORTUNITY IN INDUSTRIAL BIOTECHNOLOGY Business opportunity, Essential requirement, marketing strategies, schemes, challenges and scope- with case study- Pollution monitoring and Bioremediation for Industrial pollutants, Pesticides, Herbicides etc. Integrated compost production- microbe enriched compost. Biopesticide/insecticide production. Fermented products- probiotic and prebiotics. Stem cell production, stem cell bank, contract research. Production of monoclonal/ polyclonal antibodies, Single cell protein and secondary metabolite production Contract research in microbial genomics</p>	10	L1, L2, L3
MODULE-4		



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<p>PROJECTMANAGEMENT,INTELLECTUALPROPERTY, TECHNOLOGY MANAGEMENT ANDSTARTUPSCHMES</p> <p>Building Biotech business challenges in Indian context- biotechpartners(BICEPS,BIRAC,DBT,Incubationcenters. Etc.), operational biotech parks in India.IndianCompanyactforBiobusiness-schemesandsubsidie</p> <p>MeaningofProject;ProjectIdentification;ProjectSelection;ProjectReport;NeedandSignificanceofReport; Contents; Formulation; Guidelines by PlanningCommission for Project report;</p> <p>Network Analysis;</p> <p>ErrorsofProjectReport;ProjectAppraisal.Identificationofbusinessopportunities:MarketFeasibilityStudy;TechnicalFeasibilityStudy;FinancialFeasibilityStudy&SocialFeasibilityStudy.</p> <p>Patent expiry and Entrepreneurship opportunity, PrinciplesofTechnologyleasing,licensingandtransfer,StartupschemesinIndiangovernment,Businessincubationsupportschemes,Successfulstartups-casestudy.</p>	10	L1,L2
<p>MODULE-5</p>		
<p>Regulatoryaffairs,Bioethics&Bio-safety:</p> <p>Regulatory affairs in Bio business-regulatory bodies andtheir regulations (ex.FDA, EU, DSIR, AYUSH, FSSAetc.,)</p> <p>Publiceducationoftheprocessofbiotechnologyinvolvedin generating new forms of life for informed decision-making. Ethical concerns of biotechnology research andinnovation- Interference with nature, fear of unknown,unequaldistributionofrisks.</p> <p>Rational vs. subjective perceptions of risks and benefits,relationshipbetweenrisk,hazard,exposureandsafeguards. biosafety concerns at the level of individuals,institutions, society, region, country and the world. TheCartagenaprotocolonbiosafety.Biosafetymangement.</p>	10	L1,L2
<p>Courseoutcomes:</p> <p>Afterstudyingthiscourse,studentswillbeableto:</p> <ul style="list-style-type: none"> • Identifypotentialentrepreneurshipopportunityinbiotechnology • Effectivelyplanaprojectwithaworkplan,budgetandschedule • Assessthegovernmentstrategiesandschemesforstartups • Understandtheconceptsofbioethics,biosafetyandRegulatorynorms 		



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Graduate Attributes (as per NBA):

- Engineering knowledge
- Conduct investigation of complex problem
- Engineer and society
- Environment and sustainability
- Professional Ethics
- Project management and finance
- Lifelong learning.

Question paper pattern:

- The question paper will have ten questions.
- Each full question consists of 16 marks.
- There will be 2 full questions (with a maximum of four subquestions) from each module.
- Each full question will have subquestions covering all the topics under a module.
- The students will have to answer 5 full questions, selecting one full question from each module.

TEXTBOOKS

7. Principles of Management – P.C. Tripathi, P.N. Reddy – Tata McGraw Hill,
8. Entrepreneurship Development – S.S. Khanka – S. Chand & Co.
9. Practical Approach to IPR by Rachana Singh Puri, IK Intl. Ltd.

REGULATORY AFFAIRS IN BIOTECH INDUSTRY

[As per Choice Based Credit System (CBCS) scheme] SEMESTER – VIII

Sub.Code:	15BT82	I.A Marks:	20
Hours/week:	4	Exam Hrs. :	3
Total Hours:	50	Exam Marks :	80

CREDITS – 04

Course objectives: The objective of this course is to educate students about regulatory rules and guidelines that specify parameters of the safety and quality standards in the biotech industry.

MODULE – 1



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<p>INTRODUCTION</p> <p>Validation and Regulatory Affairs in Bio (Pharmaceutical) Manufacturing: An Introduction to FDA Operations & Industry Compliance Regulations, The Fundamentals of Regulatory Compliance with respect to Good Clinical Practice (GCP), Good Manufacturing Practice (GMP) & Good Laboratory Practice (GLP). An Introduction to the Basic Concepts of Process Validation & how it Differs from Qualification (IQ, OQ & PQ) Procedures, A Review of Prospective, Concurrent, Retrospective Validation & Revalidation including the use of Statistical Process Control (SPC) Techniques. ISO 9000 Series & International Harmonization & their effect upon GMP's,</p>	<p>1 0</p>	<p>L1, L2, L3</p>
<p>MODULE – 2</p>		
<p>VALIDATION</p> <p>Validation of Water & Thermal Systems, including HVAC Facilities & Cleaning Validation. Validation of Active Pharmaceutical Ingredients (APIs) & Aseptic Processes. Validation of Non-Sterile Processes (used in the manufacture of Solids, Liquids, & Semisolid Dosage Forms). Overview of method evolution, FDA and ICH guidelines, Development and validation, Basic statistical concepts, Outliers, Specificity: sample preparation, Specificity: separations, Specificity: detectors, Linearity, Accuracy, Precision, Limit of detection (LOD) and quantification (LOQ), Minimum detectable amount (MDA), Sample stability and method robustness, Window diagrams,</p>	<p>1 0</p>	<p>L1, L2, L3</p>
<p>System suitability, Statistical process control for HPLC, Sustainable validation, Trouble shooting out-of-control systems, Case studies</p>		
<p>MODULE – 3</p>		
<p>STANDARDS</p> <p>Introduction, ISO 9000 Series of Standards, Management Responsibility, Quality System, Contract Review, Design Control, Document and Data Control, Preservation and Delivery, Control of Quality Records, Internal Quality Audits, Training, Servicing, Statistical Techniques, ISO-9001-2000, Scope, Normative Reference, Terms and Definitions, Quality Management System, Documents Requirements, Management's Responsibility, Resource Management, Infrastructure, Product Realization, Measurement, Analysis and Improvement, ISO-14001, Environmental Management Systems.</p>	<p>1 0</p>	<p>L1, L2, L3</p>



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MODULE – 4		
<p>QUALITY AND IMPLEMENTATION</p> <p>Terminology Relating to Quality, Quality Requirement, Customer Satisfaction, Capability; Terms Relating to Management, Management System, Quality Management System, Quality Policy, Quality Objectives, Quality Planning, Quality Control, Quality Assurance, Quality Improvement, Continual Improvement, Effectiveness, Efficiency, Terms relating to Characteristics, Quality Characteristics; Terms Relating to Conformity, Non-Conformity, Defect, Preventive Action, Corrective Action, Correction, Rework, Repair, Scrap, Concession, Deviation Permit, Release; Objective Evidence, Inspection, Test, Metrological Confirmation. Quality System, Contract Review, Design Control, Document and Data Control, Purchasing, Control of Customer Supplied Product, Product Identification and Traceability, Process Control, Inspection and Testing, Final Inspection and Testing, Inspection and Test Status, Handling, Storage, Packaging, Preservation and Delivery, Control of Quality Records, Internal Quality Audits, Training, Servicing, Statistical Techniques</p>	<p>10</p>	<p>L1, L2, L3,</p>
MODULE – 5		
<p>QUALITY MANAGEMENT</p> <p>The development of regulatory requirements for validation, The V model and Life Cycle model approach to validation and documentation, Risk Analysis Techniques: Impact Assessment; Failure Mode and Effects Analysis (FMEA), Validation Master Plans, Commissioning and Qualification,</p>	<p>10</p>	<p>L1, L2, L3</p>
<p>Process Validation, Routine validation and revalidation, Contamination Control, Risk Management in the Pharmaceutical Industry, Solid Dose Manufacture Principles and Practices, Liquid and Cream Manufacture Principles and Practices, Good Laboratory Practices (for Non-Clinical Laboratories), Computer Systems Validation Principles and Practices, Good Aseptic Practices and Sterile Products, Clinical Trials Quality Assurance Management, GxP and Quality Auditing Practices, Pharmaceutical Engineering – Facility, Equipment and Process Design, Fundamentals of Process Analytical Technology, Quality and Continuous Improvement in the Biotech Industry.</p>		



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COURSE OUTCOMES:

After studying this course, students will be able to:

- Outline the importance of the quality and compliance in the biotech industry
- Comprehend the various regulatory guidelines and rules as well as the organizations governing the same.

Graduate Attributes (as per NBA):

- Engineer and society
- Professional Ethics.
- Lifelong learning.

Question paper pattern:

- The question paper will have ten questions.
- Each full question consists of 16 marks.
- There will be 2 full questions (with a maximum of four subquestions) from each module.
- Each full question will have subquestions covering all the topics under a module.
- The students will have to answer 5 full questions, selecting one full question from each module.

TEXTBOOKS

- Pharmaceutical Process Validation by Robert Nash and Alfred Wachter, Marcel Dekker.
- Good Manufacturing Practices for Pharmaceuticals: A Plan for Total Quality Control From Manufacture to Consumer, Sidney J. Willig, Marcel Dekker.
- Validation of Pharmaceutical Processes: Sterile Products, Frederick J. Carlton (Ed.) and James Agalloco (Ed.), Marcel Dekker.
- Validation Standard Operating Procedures: A Step by Step Guide for Achieving Compliance in the Pharmaceutical, Medical Device, and Biotech Industries, Syed Imtiaz Haider, Saint Lucie Press.
- Pharmaceutical Biotechnology by SP Vyas and VK Dixit, CBS Publishers.

REFERENCE BOOKS

- Pharmaceutical Equipment Validation: The Ultimate Qualification Handbook, Phillip A. Cloud, Interpharm Press.
- Commissioning and Qualification, ISPE Pharmaceutical Engineering Baseline Guides Series.
- ICH guideline Q6B, Freelance Publishing.

ENVIRONMENTAL BIOTECHNOLOGY

[As per Choice Based Credit System (CBCS) scheme] SEMESTER –VIII

Sub.Code:	15BT833	I.A Marks:	20
Hours/week:	3	Exam Hrs. :	3
Total Hours:	40	Exam Marks :	80



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CREDITS– 03

CREDITS– 03		
MODULE– 1		
INTRODUCTION TO ENVIRONMENTAL POLLUTANTS Water, Soil and Air: their sources and effects. Removal of Specific Pollutants: Sources of Heavy Metal Pollution, Microbial Systems for Heavy Metal Accumulation, Biosorption & detoxification mechanisms.	08	L1, L2, L3
MODULE–2		
MICROBIOLOGY AND BIOCHEMISTRY OF WASTEWATER TREATMENT Biological Treatment of anaerobic and aerobic; methanogenesis, methanogenic, acetogenic, and fermentative bacteria- technical process and conditions; Use of Genetically Engineered Organisms. emerging biotechnological processes in waste - water treatment; Applications include treatment of municipal and industrial wastewaters,	08	L2, L3, L4
MODULE– 3		
BIODEGRADATION OF XENOBIOTIC COMPOUNDS & BIOREMEDIATION: Xenobiotic compounds: Aliphatic, Aromatics, Polyaromatic Hydrocarbons, Polycyclic aromatic compounds, Pesticides, Surfactants and microbial treatment of oil pollution. Introduction to Bioremediation, Types of	08	L2, L3, L4
Bioremediation, Bioremediation of surface soils and sludges, Bioremediation of subsurface material, In situ technologies, Ex-situ technologies, Phytoremediation,		
MODULE– 4		
BIOTRANSFORMATIONS & BIOCATALYSTS: Basic organic reaction mechanism- Common prejudices against Enzymes.- Advantages & Disadvantages of Biocatalysts- Isolated Enzymes versus whole cell systems.- Mechanistic Aspects and Enzyme Sources.- Biocatalytic Application - Catalytic Antibodies; Stoichiometry, kinetics, and thermodynamics of microbial processes for the transformation of environmental contaminants.	08	L1, L2, L3, L4



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MODULE- 5

BIOOXIDATION&MICROBIALLEACHING:

Biooxidation-DirectandIndirectMechanisms-
BiooxidationKinetics;BacterialoxidationofSphalerite,ChalcopyriteandPyrite.;Extractionofmetals from ores; Recovery of metals from solutions;Microbesinpetroleumextraction;Microbialdesulfurizationofcoal,geneclosing-useofgeneticallyalteredmicroorganismsforfieldbiodegradationofhazardous materials.

08

L1,L2,L3

Courseoutcomes:

Afterstudyingthis course, students will beableto:

- Understand the role of various environmental pollutants, biooxidation,biotransformation
- Explaintheinvolvementofmicrobesinwastewatertreatment,chemicals

GraduateAttributes(asperNBA):

- Engineerand society
- ProfessionalEthics.
- Lifelonglearning.

Questionpaperpattern:

- Thequestionpaperwillhavetenquestions.
- Eachfullquestionconsists of16 marks.
- Therewillbe2fullquestions(withamaximumoffoursubquestions)fromeachmodule.
- Eachfullquestionwillhavesubquestionscoveringallthetopicsundera module.
- Thestudentswillhavetoanswer5fullquestions,selectingonefullquestionfromeachmodule.

TEXT BOOKS

- ❑ Environmental Microbiology, W.D. Grant & P.E. Long, Blakie, Glasgow and London.
- ❑ Microbial Gene Technology, H. Polasa (ED.) South Asian Publishers, New Delhi.
- ❑ Environmental Biotechnology by Bruce Rittmann and Perry McCarty
- ❑ Biotransformations : K. Faber (1995), Springer- Verlag.



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B.E Civil Engineering

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: CIVIL ENGINEERING												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
				L	T	P						
1	BSC	18MAT31	Transform Calculus, Fourier Series and Numerical Techniques	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CV32	Strength of Materials	Civil Engg.	3	2	--	03	40	60	100	4
3	PCC	18CV33	Fluid Mechanics	Civil Engg.	3	0	--	03	40	60	100	3
4	PCC	18CV34	Building Materials and Construction	Civil Engg.	3	0	--	03	40	60	100	3
5	PCC	18CV35	Basic Surveying	Civil Engg.	3	0	--	03	40	60	100	3
6	PCC	18CV36	Engineering Geology	Geology	3	0	--	03	40	60	100	3
7	PCC	18CVL37	Computer Aided Building Planning & Drawing	Civil Engg.	--	2	2	03	40	60	100	2
8	PCC	18CVL38	Building Materials Testing Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
9	HSMC	18KVK39	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		OR										
		18KAK39	Aadlitha Kannada (Kannada for Administration)									
		OR										
18CPC39	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60				
TOTAL					17	08		24	420	480	900	24
					OR	OR	04	OR	OR	OR		
					18	10		26	360	540		

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: CIVIL ENGINEERING												
IV SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department at	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
				L	T	P						
1	BSC	18MAT41	Complex Analysis, Probability And Statistical Methods	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CV42	Analysis of Determinate Structures	Civil Engg.	3	2	--	03	40	60	100	4
3	PCC	18CV43	Applied Hydraulics	Civil Engg.	3	0	--	03	40	60	100	3
4	PCC	18CV44	Concrete Technology	Civil Engg.	3	0	--	03	40	60	100	3
5	PCC	18CV45	Advanced Surveying	Civil Engg.	3	0	--	03	40	60	100	3
6	PCC	18CV46	Water Supply & Treatment Engineering	Civil Engg.	3	0	--	03	40	60	100	3
7	PCC	18CVL47	Engineering Geology Laboratory	Geology	--	2	2	03	40	60	100	2
8	PCC	18CVL48	Fluid Mechanics and Hydraulic Machines Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for Communication)/	HSMC	--	2	--	--	100	--	100	1
		OR										
		18KAK39/49	Aadlitha Kannada (Kannada for Administration)									
		OR										
18CPC39/49	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60				
TOTAL					17	08		24	420	480	900	24
					OR	OR	04	OR	OR	OR		
					18	10		26	360	540		



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Scheme of Teaching and Examination 2018 - 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 - 19)												
Programme: CIVIL ENGINEERING												
V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours/Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CBE Marks	SEE Marks	Total Marks	
					L	T	P					
1	HSMC	18CV51	Construction Management & Entrepreneurship	Civil Engg.	2	2	..	03	40	60	100	3
2	PCC	18CV52	Analysis of Indeterminate Structures	Civil Engg.	3	2	..	03	40	60	100	4
3	PCC	18CV53	Design of RC Structural Elements	Civil Engg.	3	2	..	03	40	60	100	4
4	PCC	18CV54	Basic Geotechnical Engineering	Civil Engg.	3	..	..	03	40	60	100	3
5	PCC	18CV55	Municipal Wastewater Engineering	Civil Engg.	3	..	..	03	40	60	100	3
6	PCC	18CV56	Highway Engineering	Civil Engg.	3	..	..	03	40	60	100	3
7	PCC	18CVL57	Surveying Practice	Civil Engg.	..	2	2	03	40	60	100	2
8	PCC	18CVL58	Concrete and Highway Materials Laboratory	Civil Engg.	..	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/Environmental								
				[Paper setting Board: Civil Engineering]	1	..	..	02	40	60	100	1
TOTAL					18	10	04	26	360	540	900	25
Note: PCC: Professional Core, HSMC: Humanity and Social Science.												
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.												

B. E. Common to all Programmes			
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)			
SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution:			
The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			



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Union Executive and State Executive:

Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.

Module-3

Elections, Amendments and Emergency Provisions:

Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.

Constitutional special provisions:

Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.

Module-4

Professional / Engineering Ethics:

Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering

Module-5

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for Cyber Laws, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be

able to, CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and Professional ethics and responsibilities of Engineers.

CO 3: Understand the the cybercrimes and cyber laws for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.



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4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004
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B. E. COMMON TO ALL PROGRAMMES			
Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V			
ENVIRONMENTAL STUDIES			
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.			
Module - 3			
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and AirPollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.			
Module - 4			
Global Environmental Concerns (Concept, policies and case-studies):Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.			
Module - 5			
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.			



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Course Outcomes: At the end of the course, students will be able to:

- CO1: Understand the principles of ecology and **environmental issues** that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate **ecology** knowledge of a complex relationship between biotic and abiotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.

Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition, 2018
3	Environmental Studies– From Crisis to Cure	RRajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition

4th year/1st semester | Civil Engineering | **Environmental** Project and Management (18CV753)

B. E. CIVIL ENGINEERING

Choice Based Credit System (CBCS) and Outcome Based Education (OBE)

SEMESTER - VII

ENVIRONMENTAL PROTECTION AND MANAGEMENT

Course Code 18CV753 CIE Marks 40

Teaching Hours/Week (L:T:P) (3:0:0) SEE Marks 60

Credits 03 Exam Hours 03

Course Learning Objectives: This course will enable students to gain knowledge in **Environmental** protection and Management systems

Module -1

Environmental Management Standards: Unique Characteristics of **Environmental** Problems - Systems approach to Corporate **environmental** management - Classification of **Environmental** Impact Reduction Efforts -



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Business Charter for Sustainable Production and Consumption – Tools, Business strategy drivers and Barriers - Evolution of **Environmental** Stewardship. **Environmental** Management Principles - National policies on environment, abatement of pollution and conservation of **resources** - Charter on Corporate responsibility for **Environmental** protection.

Module -2

Environmental Management Objectives: **Environmental** quality objectives – Rationale of **Environmental** standards: Concentration and Mass standards, Effluent and stream standards, Emission and ambient standards, Minimum national standards, **environmental** performance evaluation: Indicators, benchmarking. Pollution control Vs Pollution Prevention - Opportunities and Barriers – Cleaner production and Clean technology, closing the loops, zero discharge technologies.

Module -3

Environmental Management System: EMAS, ISO 14000 - EMS as per ISO 14001– benefits and barriers of EMS – Concept of continual improvement and pollution prevention - **environmental** policy – initial **environmental** review – **environmental** aspect and impact analysis – legal and other requirements- objectives and targets – **environmental** management programs – structure and responsibility – training awareness and competence- communication – documentation and document control – operational control – monitoring and measurement – management review.

Module -4

Environmental Audit: **Environmental** management system audits as per ISO 19011- – Roles and qualifications of auditors - **Environmental** performance indicators and their evaluation – Non conformance – Corrective and preventive actions -compliance audits – waste audits and waste minimization planning – **Environmental** statement (form V) - Due diligence audit.

Module -5

Applications: Applications of EMS, Waste Audits and Pollution Prevention Control: Textile, Sugar, Pulp & Paper, Electroplating, , Tanning industry. Hazardous Wastes - Classification, characteristics Treatment and Disposal Methods, Transboundary movement, disposal.

Course outcomes: After studying this course, students will be able to:

1. Appreciate the elements of Corporate **Environmental** Management systems complying to international **environmental** management system standards.
2. Lead pollution prevention assessment team and implement waste minimization options.
3. Develop, Implement, maintain and Audit **Environmental** Management systems for Organizations.

Question paper pattern:

- ☑ The question paper will have ten full questions carrying equal marks.
- ☑ Each full question will be for 20 marks.
- ☑ There will be two full questions (with a maximum of four sub- questions) from each module.
- ☑ Each full question will have sub- question covering all the topics under a module.
- ☑ The students will have to answer five full questions, selecting one full question from each module.

Reference Books:

1. Christopher Sheldon and Mark Yoxon, "Installing **Environmental** management Systems – a step by step guide" Earthscan Publications Ltd, London, 1999.
2. ISO 14001/14004: **Environmental** management systems – Requirements and Guidelines – International Organisation for Standardisation, 2004
3. ISO 19011: 2002, "Guidelines for quality and/or **Environmental** Management System auditing, Bureau of Indian Standards, New Delhi, 2002
4. Paul L Bishop „Pollution Prevention: Fundamentals and Practice, McGraw- Hill International, Boston, 2000.
5. **Environmental** Management Systems: An Implementation Guide for Small and Medium-Sized Organizations, Second Edition, NSF International, Ann Arbor, Michigan, January 2001.



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E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

B.E Automobile Engineering

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BSC	18MAT31	Mathematics	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18ME32	Mechanics of Materials		3	2	--	03	40	60	100	4
3	PCC	18ME33	Basic Thermodynamics		3	0	--	03	40	60	100	3
4	PCC	18ME34	Material Science		3	0	--	03	40	60	100	3
5	PCC	18ME35A or	Metal cutting and forming		3	0	--	03	40	60	100	3
		18ME35B	Metal Casting and Welding									
6	PCC	18ME36A or	Computer Aided Machine Drawing/		1	4	--	03	40	60	100	3
		18ME36B	Mechanical Measurements and Metrology		3	0						
7	PCC	18MEL37A or	Material Testing lab		--	2	2	03	40	60	100	2
		18MEL37B	Mechanical Measurements and Metrology lab									
8	PCC	18MEL38A	Workshop and Machine Shop Practice (Consists of Fitting, and Machining)		--	2	2	03	40	60	100	2
		18MEL38B	Foundry, Forging and Welding lab									
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39	Constitution of India, Professional Ethics and Cyber Law									
TOTAL					17	10	04	24	420	480	900	24
					OR	OR		OR	OR	OR		
					19	14		26	360	540		

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.

18KVK39 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.



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B. E. Common to all Programmes			
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)			
SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution:			
The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive:			
Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions:			
Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions:			
Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			
Professional / Engineering Ethics:			
Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering			
Module-5			



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Internet Laws, Cyber Crimes and Cyber Laws: Internet and Need for Cyber Laws , Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.				
Course Outcomes: On completion of this course, students will be able to, CO 1: Have constitutional knowledge and legal literacy. CO 2: Understand Engineering and Professional ethics and responsibilities of Engineers. CO 3: Understand the the cybercrimes and cyber laws for cyber safety measures.				
Question paper pattern for SEE and CIE:				
<ul style="list-style-type: none"> The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ). For the award of 40 CIE marks, refer the University regulations2018. 				
Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004

B. E. COMMON TO ALL PROGRAMMES			
Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V			
ENVIRONMENTAL STUDIES			
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud			



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Seeding, and Carbon Trading.				
Module - 3				
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and AirPollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.				
Module - 4				
Global Environmental Concerns (Concept, policies and case-studies):Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.				
Module - 5				
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.				
Course Outcomes: At the end of the course, students will be able to: <ul style="list-style-type: none"> • CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a globalscale, • CO2: Develop critical thinking and/or observation skills, and apply themtothe analysis of a problem or question related to theenvironment. • CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abioticcomponents. • CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complexissues. 				
Question paper pattern: <ul style="list-style-type: none"> • The Question paper will have 100 objectivequestions. • Each question will be for 01marks • Student will have to answer all the questions in an OMRSheet. • The Duration of Exam will be 2hours. 				
Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition' 2018
3	Environmental Studies– From Crisis to Cure	RRajagopalan	Oxford Publisher	2005
Reference Books				



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1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition

MANAGEMENT AND ENGINEERING ECONOMICS B.E, V Semester, Mechanical Engineering [As per Choice Based Credit System (CBCS) scheme]			
Course Code	17ME51	CIE Marks	40
Number of Lecture Hours/Week	04	SEE Marks	60
Total Number of Lecture Hours	50(10 Hours per Module)	Exam Hours	03
Credits – 04			
Course Objectives:			
<ul style="list-style-type: none"> • Examine the meaning, importance, nature of management, its difference between management and administration and role of managers in management. • Examine the meaning characteristics principles and process of organizing. • Describe effective communication process, its importance, types and purpose for running an organization. • Explain the importance of engineering economics, Law of demand and supply in engineering decision making. • Describe various interest rate factors and implement the same for economic decision making. • Examine different economic analysis methods-NPW, EAW, IRR, FW for decision making. • Discuss different component of costs and methods of cost estimation. • Explain depreciation, different methods of computing depreciation. • Discuss taxation concepts-income tax and corporate taxes. 			
Module - 1			
Management: Introduction - Meaning - nature and characteristics of Management, Scope and Functional areas of management - Management as a science, art of profession - Management & Administration - Roles of Management, Levels of Management, Development of Management Thought-early management approaches – Modern management approaches.			
Planning: Nature, importance – purpose of planning process Objectives -Types of plans (Meaning Only) - Decision making Importance of planning -steps in planning & planning premises - Hierarchy of plans.			



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Module - 2
<p>Organizing And Staffing: Nature and purpose of organization Principles of organization - Types of organization - Departmentation Committees-Centralization Vs Decentralization of authority and responsibility - Span of control - MBO and MBE (Meaning Only) Nature and importance of staffing--:Process of Selection & Recruitment (in brief).</p> <p>Directing & Controlling: Meaning and nature of directing Leadership styles, Motivation Theories, Communication - Meaning and importance - coordination, meaning and importance and Techniques of Coordination. Meaning and steps in controlling - Essentials of a sound control system - Methods of establishing control (in brief)</p>
Module - 3
<p>Introduction: Engineering and economics, Problem solving and decision making, Laws of demand and supply, Difference between Microeconomics & Macroeconomics, equilibrium between demand & supply, elasticity of demand, price elasticity, income elasticity. Law of Returns, Interest and interest factors, simple and compound interest, Cash flow diagrams, personal loans and EMI payment calculation with flexible interest rates, Discussion and problems</p>
Module - 4
<p>Present, future and annual worth and rate of returns: Basic present worth comparisons, Present worth-equivalence, Assets with unequal lives and infinite lives, future worth comparisons, payback comparisons, Equivalent annual worth comparisons, situations for annual worth comparisons. Asset life, Rate of return, minimum acceptable rate of return, IRR anomalies and misconceptions, Cost of capital, comparisons of all present future and annual worth with IRR, product costing, Discussions and problems</p>
Module - 5
<p>Costing and depreciation: Components of costs, estimation of selling price, marginal cost, first cost, all kinds of overheads, indirect cost estimation with depreciation, mensuration and estimation of material cost, cost estimation of mechanical process, idling time. Product costing (approaches to product costing), causes of depreciation, methods of computing depreciation charges, straight line method, declining balance method, sum of years method, sinking fund method, service output methods, taxation concepts, personal income taxes and corporate taxes, Discussions and problems.</p>
<p>Course outcomes:</p> <p>On completion of this subject students will be able to</p> <ol style="list-style-type: none"> 1. Explain the development of management and the role it plays at different levels in an organization. 2. Comprehend the process and role of effective planning, organizing and staffing for the development of an organization. 3. Understand the necessity of good leadership, communication and coordination for establishing effective control in an organization. 4. Understand engineering economics demand supply and its importance in economics decision making and problem solving. 5. Calculate present worth, annual worth and IRR for different alternatives in economic decision making. 6. Understand the procedure involved in estimation of cost for a simple component, product costing and depreciation, its methods.

TEXT BOOKS:

1. Principles of Management by Tripathy and Reddy
2. Mechanical estimation and costing, T.R. Banga & S.C. Sharma, 17th edition 2015
3. Engineering Economy, Riggs J.L. McGraw Hill, 2002
4. Engineering Economy, Thuesen H.G. PHI, 2002

REFERENCE BOOKS

1. Management Fundamentals- Concepts, Application, Skill Development - RobersLusier - Thomson
2. Basics of Engineering Economy, Leland Blank & Anthony Tarquin, McGraw Hill Publication (India) Private Limited
3. Engineering Economics, R.Paneerselvam, PHI publication
4. Fundamentals of Management: Essential Concepts and Applications, Pearson Education, Robbins S.P. and Decenzo David A.
5. Economics: Principles of Economics, N Gregory Mankiw, Cengage Learning
6. Modern Economic Theory, By Dr. K. K. Dewett & M. H. Navalur, S. Chand Publications



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B.E Mechatronics

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
B.E. In MECHATRONICS												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)												
III SEMESTER												
Sl No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BSC	18MAT31	Transform calculus, Fourier series and Numerical techniques	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18MT 32	Material science and Technology		3	0	--	03	40	60	100	3
3	PCC	18 MT 33	Mechanics of materials		3	2	--	03	40	60	100	4
4	PCC	18 MT 34	Control Systems		3	2	--	03	40	60	100	3
5	PCC	18 MT 35	Analog and Digital Electronics		3	0	--	03	40	60	100	3
6	PCC	18 MT 36	Computer Organization		3	0	--	03	40	60	100	3
7	PCC	18 MT L37	Machine shop and material Testing lab		--	2	2	03	40	60	100	2
8	PCC	18 MT L38	Analog and digital electronics lab		--	2	2	03	40	60	100	2
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for communication)	HSMC	--	2	--	--	100	--	100	1
		18KAK39/49	Aadaltha Kannada (Kannada for Administration)									
		OR										
		18CPC39/49	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60		
					Examination is by objective type questions							
					17	10		24	420	480		
TOTAL					OR	OR	04	OR	OR	OR	900	24
					18	12		26	360	540		



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI													
B.E. In MECHATRONICS													
Scheme of Teaching and Examination 2018 – 19													
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)													
(Effective from the academic year 2018 – 19)													
V SEMESTER													
SL No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week				Examination			Credits	
					Theory	Lecture	Tutorial	Practical	Drawing Duration in hours	CIE Marks	SEE Marks		Total Marks
1	HSMC	18MT51	Technological Innovation Management And Entrepreneurship		3	0	--	03	40	60	100	3	
2	PCC	18 MT52	Design and analysis of Machine Elements		3	2	--	03	40	60	100	4	
3	PCC	18 MT53	Virtual Instrumentation		3	2	--	03	40	60	100	4	
4	PCC	18 MT54	Hydraulics and Pneumatics		3	--	--	03	40	60	100	3	
5	PCC	18 MT55	Micro and Smart Systems Technology		3	--	--	03	40	60	100	3	
6	PCC	18 MT56	Wireless Networks & Communication		3	--	--	03	40	60	100	3	
7	PCC	18 MTL57	Virtual Instrumentation-Laboratory		--	2	2	03	40	60	100	2	
8	PCC	18 MTL58	MSST -Laboratory		--	2	2	03	40	60	100	2	
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting: Civil Engineering Board]	1	--	--	02	40	60	100	1	
TOTAL					19	08	04	26	360	540	900	25	

Note: PCC: Professional Core, HSMC: Humanity and Social Science.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

B. E. Common to all Programmes			
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)			
SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution:			
The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			



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Union Executive and State Executive:

Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.

Module-3

Elections, Amendments and Emergency Provisions:

Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.

Constitutional special provisions:

Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.

Module-4

Professional / Engineering Ethics:

Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering

Module-5

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for Cyber Laws, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be

able to, CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and Professional ethics and responsibilities of Engineers.

CO 3: Understand the the cybercrimes and cyber laws for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.



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4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004
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B. E. COMMON TO ALL PROGRAMMES Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V			
ENVIRONMENTAL STUDIES			
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.			
Module - 3			
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and AirPollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.			
Module - 4			
Global Environmental Concerns (Concept, policies and case-studies):Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.			
Module - 5			
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.			



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Course Outcomes: At the end of the course, students will be able to:

- CO1: Understand the principles of ecology and **environmental issues** that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate **ecology** knowledge of a complex relationship between biotic and abiotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.

Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition, 2018
3	Environmental Studies – From Crisis to Cure	RRajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition



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Curriculum Highlighting Cross Cutting Issues - PG

MBA

MASTER OF BUSINESS ADMINISTRATION

I SEMESTER

Subject Code	Title of the Subject	Category	Teaching hours / week			Duration of Exam (Hours)	Marks for		Total Marks	Credits
			Lecture	Practical Component	Total Hours		CIE	SEE		
18MBA11	Management & Organizational Behavior	Core Course	4	-	4	3	40	60	100	4
18MBA12	Managerial Economics	Core Course	4	-	4	3	40	60	100	4
18MBA13	Accounting for Managers	Core Course	4	-	4	3	40	60	100	4
18MBA14	Business Statistics & Analytics	Core Course	4	-	4	3	40	60	100	4
18MBA15	Marketing Management	Core Course	4	-	4	3	40	60	100	4
18MBA16	Managerial Communications	Core Course	4	-	4	3	40	60	100	4
	Total		24	-	24	-	240	360	600	24

Note:

1. Each course content has indicative case studies which can be dealt in the class by the course instructor. In addition to this the course instructor may use an extra case from Harvard/Case Centre. The student cannot assume the same cases will be part of the question paper.
2. One Industrial Visit per Semester is Mandatory. The Department shall insist on report submission by each student and shall maintain this as a documentary proof. The format of the report shall be prescribed by the department.
3. Course instructors are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated.

SCHEME OF TEACHING AND EXAMINATION MASTER OF BUSINESS ADMINISTRATION

II SEMESTER

Subject Code	Title of the Subject	Category	Teaching hours / week			Duration of Exam Hours	Marks for		Total Marks	Credits
			Lecture	Practical Component	Total		CIE	SEE		
18MBA21	Human Resource Management	Core Course	4	-	4	3	40	60	100	4
18MBA22	Financial Management	Core Course	4	-	4	3	40	60	100	4
18MBA23	Research Methodology	Core Course	4	-	4	3	40	60	100	4
18MBA24	Legal and Business Environment	Core Course	4	-	4	3	40	60	100	4
18MBA25	Strategic Management	Core Course	4	-	4	3	40	60	100	4
18MBA26	Entrepreneurship Development	Core Course	4	-	4	3	40	60	100	4
	Total		24	-	24	-	240	360	600	24

Note:

1. Each course content has indicative case studies which can be dealt in the class by the course instructor. In addition to this the course instructor may use an extra case from Harvard/Case Centre. The student cannot assume the same cases will be part of the question paper.
2. One Industrial Visit per Semester is Mandatory. The Department shall insist on report submission by each student and shall maintain this as a documentary proof. The format of the report shall be prescribed by the department.
3. Course instructors are free to set the Course outcome and map with the Programme Outcome, subsequently attainment level may be calculated.



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IV SEMESTER
(Core Specialization Subjects)

Marketing Specialization		Financial Specialization		Human Resource Specialization	
Subject Code	Title of the Subject	Subject Code	Title of the Subject	Subject Code	Title of the Subject
18MBAMM401	Sales Management	18MBAFM401	Mergers, Acquisitions & Corporate Restructuring	18MBAHR401	Public Relations
18MBAMM402	Integrated Marketing Communication	18MBAFM402	Risk Management and Insurance	18MBAHR402	Organizational Leadership
18MBAMM403	Digital and Social Media Marketing	18MBAFM403	Indirect Taxation	18MBAHR403	International Human Resource Management
18MBAMM404	Strategic Brand Management	18MBAFM404	International Financial Management	18MBAHR404	Organization Change and Development
18MBAMM405	Rural Marketing	18MBAFM405	Financial Derivatives	18MBAHR405	Strategic Talent Management
18MBAMM406	International Marketing Management	18MBAFM406	Corporate Valuation	18MBAHR406	Personal Growth & Interpersonal Effectiveness

I SEMESTER

Course Management and Behavioural Process

Course Code 18MBA11

Total No. of Lecture Hours: 52

Credits 4 L-T-P-S hours 4-0-0-0 Total No.

Of practical Hours -Nil

COURSE OBJECTIVES:

1. To make students understand fundamental concepts and principles of management, including the basic roles, skills, and functions of management
2. To make students knowledgeable of historical development, theoretical aspects and practice applications of managerial process
3. To understand the basic concepts and theories underlying individual behavior besides developing better insights into one's own self.
4. To make students aware of Individual behavior in groups, dynamics of groups, team building and interpersonal effectiveness besides developing a better awareness of how they can be better facilitators for building effective teams as leaders themselves

PART A - PRINCIPLES OF MANAGEMENT

Unit 1: (8 Hours)

Introduction: Management: Introduction, Definition of management, Nature, Purpose and Functions, Levels and types of managers, managerial roles, skills for managers, evolution of management thought, Fayol's fourteen principles of management, Recent trends in management.

Unit 2: (10 Hours)

Planning and Organizing:

Planning: Meaning, Nature of Planning, Planning Process, Objectives, MBO, Strategies, level of strategies, policies, methods and programs, Planning Premises, Decision-making, Process of decision-making, Types of decisions, Techniques in decision-making.



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Organizing: Organization structure, Formal and informal organizations, Functional, divisional, geographical, customer based and matrix organizations, team based structures, virtual organizations, boundary less organizations. Principles of organizations-chain of command, span of control, delegation, decentralization, and empowerment.

Case Study: Principles of Management, Cengage Learning, William, Manjunath, Sandhya

Unit 3: (4 Hours)

Controlling: Meaning, importance of controlling, controlling process, types of control, factors influencing control effectiveness.

RECOMMENDED BOOKS

- MGMT and ORGB, Chuck Williams, James Cambell, Manjunath & Sandhya Cengage Publications, 2018
- Essentials of Management-Koontz, 8/e, McGraw Hill
- Management: Text and Cases-VSP Rao, Excel Books

REFERENCE BOOKS:

- Masters of Management Thought – Mahanand Charati & M MMunshi, Sapna Book House, Bangalore, 2015.
- Principles and practices of Management, Kiran Nerkar, Vilas Chopde, Dreamtech Press, 2011
- Management Theory & practice – Chandan J. S, Vikas Publishing House.

PART B - ORGANIZATIONAL BEHAVIOUR

Unit 4: (6 hours)

Introduction: Organizational Behaviour: Introduction, definition, fundamental principles of OB, contributing disciplines, challenges and opportunities. Evolution & Organizational Behavior in India.

Case study: Organizational Behavior by Steven L McShane, Mary Ann Von Glinow and Radha R Sharma, TaTa McGraw Hill companies, Fourth Edition, Pg-6.

Unit 5: (14 Hours)

Foundations of Individual Behaviour: Individual behaviour: Foundations of individual behaviour. Ability: Intellectual abilities, Physical ability, the role of disabilities.

Personality: Meaning, formation, determinants, traits of personality, big five and MBTI, personality attributes influencing OB.

Perception: Meaning, Process of perception, factors influencing perception, link between perception and individual decision-making.

Attitude: Meaning, Formation, components of attitudes, relation between attitude and behaviour.

Unit 6: (10 Hours)

Motivation: Meaning, theories of motivation-needs theory, two factor theory, Theory X and Y, application of motivational theories.

Leadership: Meaning, styles of leadership, leadership theories, trait theory, behavioural theories, managerial grid, situational theories.

Case Study: "Nuts and Bolts", Principles of Management, Cengage Learning, William, Manjunath, Sandhya Page no 531-532

PRACTICAL COMPONENTS:

- Studying organizational structures of any 10 companies and classifying them into different types of organizations which are studied in Unit 2 and justifying why such structures are chosen by those organizations.
- Preparing the leadership profiles of any 5 business leaders and studying their leadership qualities and behaviors with respects to the trait, behavioural and contingency theories studied.
- Identifying any five job profiles and listing the various types, abilities required for those jobs and also the personality traits/attributes required for the jobs identified.



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Note: Faculty can either identify the organizations/ leaders/job profile or students can be allowed to choose the same.

COURSE OUTCOMES:

1. Comprehend & correlate all the management functions which are happening around with fundamental concepts and principles of management.
2. Understand the overview of management, theory of management and practical applications of the same.
3. Effectively use their skills for self-grooming, working in groups and to achieve organizational goals.
4. Demonstrate their acumen in applying managerial and behavioral concept in real world/situation.
5. Understand and demonstrate their exposure on recent trends in management.

RECOMMENDED BOOKS:

- Organizational behaviour, Stephen P Robbins, Timothy A. Judge, Neharika Vohra, 14th Edition, Pearson, 2012.
- Introduction to Organisational Behaviour – Michael Butler, Jaico Publishing House,
- Organizational Behaviour - Anada Das Gupta, Biztantra, 2011.

REFERENCE BOOKS:

- Organizational Behaviour - Fred Luthans, 12/e, McGraw Hill International, 2011.
- Management and Organizational Behaviour - Laurie J Mullins, Pearson education
- Organizational Behaviour, Aquinas P. G, Excel Books.

Course Legal and Business Environment

Course Code 18MBA24 Total No. Of Lecture Hours 52

Credits 4 L-T-P-S hours

4-0-0-0 Total No. Of practical Hours - N

Course Objectives:

1. To provide insights into the core concepts of incorporation of company.
2. To understand various policies and procedures of the company Act.
3. To gain insights into various procedure of Investigation & Winding up of Companies

Part-A (Legal Environment)

Unit I: (4 Hours)

Indian Contract Act, 1872-Meaning of contract, agreement, essential elements of a valid contract. Law of agency meaning, creation and termination of agency.

Unit 2:

Corporate Incorporation and Management .(10 Hours)

Definition of company, characteristics , types of company, lifting of corporate veil (i) Incorporation of company (ii) Memorandum and Articles of Association (iii) Doctrine of Ultra Vires (iv) Doctrine of Indoor Management and constructive notices **Management** - (i) Directors: Appointment, Removal, Position, Powers and Duties of Directors. (ii) Auditor and audit Committee: Its Role. **Directors** – qualification and Appointment, Liabilities and duties

Mini case Presentation and Discussion on Saloman v/s A Soloman & Company Ltd

Unit 3: (12 Hours)

Oppression, Mismanagement and Investigation:

- (i) Prospectus, membership and shareholding in an company.
- (ii) Prevention of Oppression
- (iii) Prevention of Mismanagement
- (iv) Role & Powers of the Company Law Board
- (v) **Role & Powers of Central Government.**



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Meeting :(i) Types of Meetings (ii) Procedure of calling for a meeting (iii) Company's resolutions and its kinds, proxies.

Corporate Liquidation: (i). Winding up of Companies (ii). Mode of winding up of the companies (iii). Compulsory Winding up under the Order of the Tribunal (iv). Voluntary winding up (v). Contributories (vi). Payment of liabilities

Mini case Presentation and Discussion on Rule in Foss v. Harbottle

PRACTICAL COMPONENTS:

- Students to collect analyze and discuss MOA, AOA & Prospectus of a company.
- Students to produce a report on the working of reputed agency including its formation, nature of relations with the outside world and such other issues of relevance.

COURSE OUTCOME:

1. Students should get clear idea about the concept of incorporation of company, its relevance, characteristics, types of company, lifting of corporate.
2. Student to acquire knowledge about conducting meeting, duties of directors and Investigation of the company

Part-B (Business Environment)

Course Objectives:

1. To provide an understanding about the Macro Economic Environment of Business.
2. To have an understanding of the basic macro-economic concepts.
3. To study the various economic policies of our country.

Unit-4 (10Hours)

Indian Business environment: Nature and Scope, Structure of the Business Environment – Internal and External environment. Political and **Legal Environment, Economic Environment, Socio – Cultural Environment, Global environment: WTO and global relations.**

Basic economic Concepts: Open and Closed Economies, Primary, secondary and Tertiary sectors and their contribution to the economy. SWOT Analysis for the **Indian economy. Measuring the Economy:** Measuring GDP and GDP Growth rate, Components of GDP, Business Cycle- Features, and Phases.

Unit-5 (8 Hours)

Industrial Policies and Structure: Planning- Problems in industrial development during the plan period, Classification of industries based on ownership. Industrial policies, Industrial strategy for the future, New Industrial policy 1991. **Structure of Indian Industry:** Public and Private Sector Enterprises, Objectives of PSUs, Performance and shortcomings. Private Sector– growth, problems and prospects. SSI – **Role in Indian Economy.** Startups and their current state in India. Privatisation-Problems and prospects, Disinvestments in Indian public sector Units since 1991.

Case Study: Privatization of Airport and Airline Industry, Source: Business Environment: Text and cases – Justin Paul, 2/e, McGraw Hill. 2008. Pp 166-168.

Unit-6 (8 Hours)

Economic policies: Fiscal Policy: Objectives, Instruments, Union Budget, Taxes, Role of Government.

Monetary Policy: Money, Measures of money supply, Monetary system in India, Tools for credit control. Structure of the Banking system, RBI and its functions, Banking structure reforms – Narasimham committee recommendations.

India Foreign Trade Policy: Objectives, Features, Policy of 2015-2020-salient features.

PRACTICAL COMPONENTS:

- Students are expected to give a report on how the economic environment has affected the performance of any five large Indian Business Houses.



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· Students are expected to analyze the major economic and financial indicators such as GDP, Inflation, CPI, BSE, NSE, Currency, Gold rate, Oil barrel price etc., for a particular period of time and submit thereport on the same.

COURSE OUTCOMES:

1. To student will have an understanding of the macro environment of Business and various macroeconomic concepts.
2. The student will understand the industrial policies of the past and the present and the evolution over time, and how Indian Industrial structure evolved over time.
3. The student will be exposed to various economic policies of the country and the state of economy.

RECOMMENDED BOOKS:

- Economic Environment of Business –Misra S. K &Puri V. K. , 6/e, Himalaya publishing house, 2010.
- Business Environment :Text and Cases

SEMESTER IV

MARKETING SPECIALISATION

Course Sales Management

Course Code 18MBA MM401

Total No. Of Lecture Hours 39

Credits 3 L-T-P-S hours

3-0-0-0 Total No. Of practical Hours -Nil

Course Objectives:

1. To provide an understanding of the concepts, techniques and approaches in Sales Management.
2. To emphasize on the Sales Manager's problems and dilemmas.
3. To develop skills for generating, evaluating and selecting sales strategies.

Unit 1: (6 hours)

Introduction to sales management: Meaning, Evaluation, Importance, Personal Selling, Emerging Trends in Sales Management, elementary study of sales organizations, qualities and responsibilities of sales manager. Types of sales organizations.

Unit 2: (5 hours)

Selling skills & selling strategies: Selling and buying Styles, selling skills, situations, selling process, sales presentation, Handling customer objections, Follow-u action.

Unit 3: (6hours)

Management of Sales Territory & Sales Quota: Sales territory, meaning, size, designing, sales quota, procedure for sales quota. Types of sales quota, Methods of setting quota. Recruitment and selection of sales force, Training of sales force.

Unit 4: (8 hours)

Sales force motivation and compensation: Nature of motivation, Importance, Process and factors in the motivation, Compensation-Meaning, Types of compensation plans and evaluation of sales force by performance and appraisal process. Sales management job: Standard sales management process-international sales management -international market selection market survey approach or strategy

Unit 5: (6 hours)



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Sales Manager and Sales Person: Role of sales manager and sales people; functions of sales manager, functions of sales person, types and characteristics of sales manager and sales people-Time management for sales manager and sales person.

Unit 6: (8 hours)

Selling on the internet: Selling agents for internet trading-net selling, advertising in net trading, payment system in internet trading-smart card, credit card, debit card- payment by card: advantages and disadvantages; How to make internet selling safe-Digital signature, biometric method and legal or regulatory environment; Growth of internet trading in India.

PRACTICAL COMPONENT:

- Interview a salesperson and write a brief report about what they like and dislike about their jobs, their salary, travelling allowances, sales quotas, why chose sales career, and what does it take to succeed in this profession.
- Ask your friends if they would buy certain goods like groceries, vegetables, socks, mobile, pens etc from the roadside vendor as against a regular shop. Group the products into low risk and high risk ones. Does this buying behaviour also depend on the personality of the individual doing the buying? Or the one doing the selling?
- Students can make a presentation on any product or the services of student choice, covering selling strategies and one day work exposure towards merchandising in any big retail outlets of respective places where the institute is operating. Rural colleges can send the students to the city nearby to observe the merchandising planning in retail outlets and to make a small report.
- Roles and functions of sales manager and sales people are different in every organization. Sales people view the roles of sales managers in their own way and vice versa. You are the sales manager of a company. You make an analysis of what you feel should be roles of a sales manager and a salesperson for maximizing sales of the organization.
- Your company is active in internet trading. A current issue in internet trading is : how to make internet selling safe. Different methods have been suggested for safety or security of internet trading. You have to analyze different methods and recommend a method for your company.

COURSE OUTCOMES: Student should be able to

1. Understand the apply the selling techniques in an organisation.
2. Develop a plan for organising, staffing & training sales force.
3. Organise sales territories to maximize selling effectiveness.
4. Evaluate sales management strategies.

RECOMMENDED BOOKS:

- Sales Management by Charles, Futrell, 6/e, Thomson South Western, 2003.
- Sales & Distribution Management, Tapan K. Panda & Sunil Sahadev, 6/e, Oxford University Press.
- Managing of Sales Force by Spiro Stanton Rich, 11/e, TMH, 2003.

REFERENCE BOOKS:

- Sales & Retail Management, an Indian perspective by Dr.S.L Gupta, 1/e, Excel Books, 2007.
- Salesmanship and Sales Management-P.K Sahu & K C Raut, 3/e, Vikas Publishing House.
- Sales Management-Douglas J Dalrymple, William L Crowe-John Wiley & Co.



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MCA

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Under Outcome Based Education (OBE) And Choice Based Credit System (CBCS) Scheme
Scheme of Teaching and Examination – 2018-19
Master of Computer Applications

IV SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week			Examination				Credits
				Theory (L)	Tutorial (T)	Practical (P)	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	18MCA41	Advanced Java Programming	MCA	03	-	-	03	60	40	100	03
2	18MCA42	Advanced Web Programming	MCA	03	-	-	03	60	40	100	03
3	18MCA43	Object Oriented Modeling and Design	MCA	03	-	-	03	60	40	100	03
4	18MCA44X	Elective II	MCA	03	-	-	03	60	40	100	03
5	18MCA45X	Elective III	MCA	03	-	-	03	60	40	100	03
6	18MCA46	Professional Communication & Report Writing	MCA	02	-	-	03	60	40	100	02
7	18MCA47	Advanced Java Programming Lab	MCA	-	01	03	03	60	40	100	02
8	18MCA48	Advanced Web Programming Lab	MCA	-	01	03	03	60	40	100	02
9	18MCA49	Object Oriented Modeling and Design Lab	MCA	-	01	03	03	60	40	100	02
TOTAL				Theory: 17hours Practical: 09 hours Tutorial/Instruction: 03hours				540	360	900	23

Professional Communication & Report Writing

[As per Choice Based Credit System (CBCS) scheme]

SEMESTER – IV

Subject Code: 18MCA46

CIE Marks: 40 SEE Marks: 60 SEE Hours: 03

Number of Lecture Hours/Week: 03 Hours Theory & 01 Hour Tutorial/ Instructions

Total Number of Lecture Hours: 45

Total Number of Teaching Hours/Module: 9

CREDITS – 02

Course learning objectives: This course (18MCA46) will enable student to

- ☑☑ Learn the role of communication and standard for grammar, numbers and spellings
- ☑☑ Realize the business Etiquettes and organizing the Reports.
- ☑☑ Understand the aspects of group communication.
- ☑☑ Exposure to the various business and technological ethics.

Course Outcomes (CO): At the end of this course, the students will be able to

- CO1: Understand the Professional communication at work place.
- CO2: Acquire the knowledge technical Writing and business Reporting.
- CO3: Develop the leadership qualities.
- CO4: Understand and implement ethical behavior at work place.

Module 1:

Communication in the workplace- Role of communication in Business, Process of Human Communication. Informal Communication- Listening, Nonverbal Communication. Correctness Of Communication- Nature of correctness, Standard for Punctuation, Standards for Grammar, Standards for the use of numbers, Spelling, Capitalization.

Module 2:

Writing for Effect- Business Etiquette, conversational style, view point, positive language, and courtesy. Basics Report Writing- Determine the Factors, Gathering the Information, Organizing the Report, Writing The Report. Physical Presentation Of Letters, Memos, And Reports- document



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preparation, Form of Business Letters. Strategies in the job search Process- Preparing application, Resume, Cover letter, Facing an Interview.

Module 3:

Group Communication- Introduction, Group discussion, Organizational group discussion, group discussion as part of selection process meetings. Effective Presentation strategies- Introduction, Defining purpose, Analyzing audience and place, organizing contents, preparing outline, Visual Aids, Understanding Nuances of delivery, Kinesics, Proxemics, Paralinguistics, Chronemics, Sample speech.

Module 4:

Motivation- Motivation and Motivators, Motivation: The Carrot and the stick, The Hierarchy of needs Theory, The Motivation – Hygiene Approach to Motivation. Leadership- Defining Leadership, Ingredients of Leadership, Trait Approaches to Leadership, Leadership behavior and styles, Situational or contingency, Approaches to Leadership.

Module 5:

Ethics: An overview of Ethics- What are Ethics? Ethics in the business World, Ethics in Information Technology (IT). Ethics for IT Professionals and IT users- IT Professionals, The Ethical behavior of IT Professionals, IT Users.

Question paper pattern:

☐☐ The question paper will have ten questions.

☐☐ Each full question consists of 20 marks.

☐☐ There will be 2 full questions from each module.

☐☐ Each question will have questions covering all the topics under a module.

☐☐ The students will have to answer 5 full questions, selecting one full question from each module

Text Books

1. Meenakshi Raman and Sangeeta Sharma: Technical **Communication**-Principles and Practices, Oxford University Press, 2004.
2. George Reynolds: Ethics in Information Technology, 2nd Edition, Thomson Course Technology, 2007

Reference Books

1. Lesikar and Flatley: **Communication**-Basic Business **Communication** Skills for Empowering the Internet Generation 9th Edition, Tata McGraw-Hill Edition, 2002
2. Harold Koonlz and Heinz Wehrich: Management-Essentials of Management, 9th Edition, McGraw-Hill International Edition, 2012

2)1st Year / 1st Semester Basics of Programming & CO (Bridge course-20MCA19-BC)for non
Computer science Background



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2020 – 21



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INSTITUTIONAL CURRICULUM COMMITTEE MEETING 2020-2021 –(ODD)

The reconstitution of the Institutional curriculum committee was made and the meeting was held on 28/09/2020 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION	COMMITTEE DESIGNATION
1.	Dr A S Aravind	Principal	Chair Person
2.	Dr R China Appala Naidu	HOD-CSE	Member Coordinator
3.	Dr R Kanagavalli	HOD-ISE	Member
4.	Dr Manju Devi	HOD-ECE	Member
5.	Dr V S Bharath	HOD-EEE	Member
6.	Prof Madhusudhan Reddy	HOD-ME	Member
7.	Dr B K Manjunath	HOD-BT	Member
8.	Dr Malleshaiah T S	HOD-Civil & CTM	Member
9.	Dr B S Yashodha	HOD-MT	Member
10.	Dr K Sathish Babu	HOD-AUTO	Member
11.	Dr Mallikarjuna K	HOD-Maths	Member
12.	Prof Abdul Khader	HOD-Physics (in-charge)	Member
13.	Dr Surekha M	HOD-Chemistry	Member
14.	Dr Dhanalakshmi R V	HOD-MBA	Member
15.	Dr M S Shashidhara	HOD-MCA	Member
16.	Prof Kirti P	In-Charge Principal -TOSA	Member

Agenda: Minutes

- Online Academic Activities
- As per the VTU instructions regarding online classes, the institution decided to use the Microsoft Teams as an online platform for conducting the classes.
- It was instructed to all HODs to send the weekly online class taken report.

Summary: Minutes

The Principal conveyed that as informed by VC of VTU, the online classes will continue, and offline classes may not start soon as they are awaiting for unlock 5.0 guidelines from GOI. HODs were



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advised to instruct the Faculty to continue with online classes by making better use of teaching resources. He further informed that based on virtual meeting has with VC and NITK, Surathkal, the college has to opt for Virtual Instrumentation Labs in association with NITK, Surathkal by which students will get access to experiments through the Virtual Labs Platform

Resolution:

- The approved syllabus is followed.
- The classes were conducted in online mode as per the lesson plan, due to pandemic and attendance was checked twice a week and report was sent
- Online meetings were conducted and to monitor the classes, HODs were instructed to login to the class and monitor.
- All departments conducted various webinars related to academic topics.
- Weekly online class taken reports with attendance were updated by the HODs.


Dr. A. S. Aravind

PRINCIPAL
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bengaluru-560 068.



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INSTITUTIONAL CURRICULUM COMMITTEE MEETING 2020-2021 (EVEN)

The reconstitution of the Institutional curriculum committee was made and the meeting was held on 10/04/2021 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION	COMMITTEE
			DESIGNATION
1	Dr N Kannan	Principal	Chair Person
2	Dr R China Appala Naidu	HOD-CSE	Member Coordinator
3	Dr R Kanagavalli	HOD-ISE	Member
4	Dr Manju Devi	HOD-ECE	Member
5	Dr V S Bharath	HOD-EEE	Member
6	Dr Madhusudhan Reddy	HOD-ME	Member
7	Dr B K Manjunath	HOD-BT	Member
8	Dr Malleshaiah T S	HOD-Civil & CTM	Member
9	Dr B S Yashodha	HOD-MT	Member
10	Dr Raju B R	HOD-AUTO	Member
11	Dr Mallikarjuna K	HOD-Maths	Member
12	Prof Abdul Khader	HOD-Physics (in-charge)	Member
13	Dr Surekha M	HOD-Chemistry	Member
14	Dr Dhanalakshmi R V	HOD-MBA	Member
15	Dr M S Shashidhara	HOD-MCA	Member

Agenda: Minutes

- Online Academic Activities
- As per the VTU instructions regarding online classes, the institution decided to use the Microsoft Teams as an online platform for conducting the classes.
- It was instructed to all HODs to send the weekly online class taken report.

Summary: Minutes



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The Principal conveyed that as informed by the VC of VTU, the online classes will continue, and offline classes may not start soon as they are awaiting guidelines from GOI.

HODs were advised to instruct the faculty to continue with online classes by making better use of teaching resources. He further informed that based on virtual meetings with VC and NITK, Surathkal, the college has to opt for Virtual Instrumentation Labs in association with NITK, Surathkal by which students will get access to experiments through the Virtual Labs Platform.

Resolution:

- The approved syllabus is followed.
- The classes were conducted in online mode as per the lesson plan, due to pandemic and attendance was checked twice a week and report was sent
- Online meetings were conducted and to monitor the classes, HODs were instructed to login to the class and monitor.
- HODs were advised to include Principal and the Directors in all the classes so that they can evaluate the classes conducted.
- All departments conducted various webinars related to academic topics.
- HODs were strictly informed to fill the class conducted details in the Google Sheet shared to HODs mail everyday by 6:00 pm without fail.

Dr. N Kannan

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Departmental Committee Meeting – (CSE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021 –(ODD)

The department curriculum committee was made and the meeting was held on 28/09/2020 and the following members were present for the meeting.

Sl. No.	NAME	DESIGNATION
1.	Dr. R Ch. A Naidu	HOD
2.	Dr. E Saravana Kumar	Asso. Professor
3.	Dr. Senthil Kumar	Asso. Professor
4.	Ms. Shobha T	Asst. Professor
5.	Ms. Seema Patil	Asst. Professor
6.	Ms. Sowmya H K	Asst. Professor
7.	Ms. Jesy Janet Kumari	Asst. Professor
8.	Ms. Florance G	Asst. Professor
9.	Ms. Latha R	Asst. Professor
10.	Ms. Tintu	Asst. Professor
11.	Ms. Sushma T	Asst. Professor
12.	Ms. Anjali	Asst. Professor
13.	Ms. Ashwini	Asst. Professor
14.	Ms. Gayathri	Asst. Professor
15.	Ms. Roopini	Asst. Professor
16.	Mr. Supreeth	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar



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- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. R Ch. A Naidu welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS Elective/Humanity and Social Science	
1	17CS742	Cloud Computing and its Applications
2	17CS754	Storage Area Networks
3	18CIV59	Environmental Studies

5. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
6. Department announced to conduct the regular seminars to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2020 – 2021 odd semester

Sl. No.	Name of the Value-added programs
20.	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

HOD, CSE

HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
BENGALURU - 560 068



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Departmental Committee Meeting – (CSE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021 –(EVEN)

The department curriculum committee was made and the meeting was held on **07/02/2020** and the following members were present for the meeting.

Agenda:

Sl. No.	NAME	DESIGNATION
1.	Dr. R Ch. A Naidu	HOD
2.	Dr. E Saravana Kumar	Asso. Professor
3.	Dr. Smitha	Asso. Professor
4.	Dr. Buddesab	Asso. Professor
5.	Ms. Shobha T	Asst. Professor
6.	Ms. Seema Patil	Asst. Professor
7.	Ms. Sowmya H K	Asst. Professor
8.	Ms. Jesy Janet Kumari	Asst. Professor
9.	Ms. Florance G	Asst. Professor
10.	Ms. Gayathri	Asst. Professor
11.	Mr. Supreeth	Asst. Professor
12.	Ms. Rekha	Asst. Professor
13.	Ms. Lakshmi Suresh	Asst. Professor
14.	Ms. Punitha	Asst. Professor

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.



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Minutes of Meeting:

1. HOD, Dr. R Ch. A Naidu, welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2020-21 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS Professional & Open Elective	
1	17CS834	System Modeling and Simulation
2	18CS643	Cloud Computing and its Applications
3	18ME651	Non-Conventional Energy Sources

3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Mentor mentee list – discussion

The following value-added programs will be conducted during 2020 – 2021 even semester

Sl. No.	Name of the Value-added programs
1.	Soft Skill Training

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

HOD, CSE

HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
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Departmental Committee Meeting – Information Science and Engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021 –(EVEN)

The department curriculum committee was made and the meeting was held on 13/04/2021 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr.R.Kanagavalli	HOD
2.	Ms. Visalini S	Assot. Prof.
3.	Mr. Yadhu Krishna M R	Assot. Prof.
4.	Ms. KalaiSelvi	Asst. Prof.
5.	Ms. Kokila P	Asst. Prof.
6.	Mr. Channappa Gowda	Asst. Prof.
7.	Ms. InduK.S	Asst. Prof.
8.	Mr. Karthik S L	Asst. Prof.
9.	Mr. Amaresha	Asst. Prof.
10.	Ms.Sandhya rani	Asst. Prof.
11.	Ms.S.vidhya	Asst. Prof.
12.	Ms.Madhusmitha	Asst. Prof.
13.	Ms.Geetha Rani	Asst. Prof.
14.	Ms.Jeevitha	Asst. Prof.

Agenda:

1. Semester plan
2. Introduction of syllabus based on CBCS scheme
3. Conduction of seminars
4. Plan for Field Visit/ Industrial Visit



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5. Plan for the (Final Year's) Project Works / Internships
6. Allotment the assignment topics and tutorial topics
7. Plan for mentoring activities

Summary: Minutes

1. HOD, Dr.Kanagavalli welcomed all the faculty and explained VTU, ODD semester regulations.
2. Semester plan for 2020-21 even semester and mentioning the activities planned in the department.
3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the (Final Year's) Project Works / Internships (with company names and details).
9. Mentor mentee list – discussion
10. The following certificate programs will be conducted during 2020 – 2021 EVEN semester

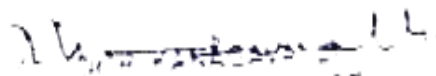
Sl. No.	Name of the department	Name of the Certificate Program
9.	Information Science and Engineering	NIL

11. The following value-added programs will be conducted during 2020 – 2021 EVEN semester

Sl. No.	Name of the department	Name of the Value-added programs
21.	Information Science and Engineering	Soft skill training

Resolutions:

1. Research activity to be improved.
2. Result percentage to be improved.


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HOD -ISC



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Departmental Committee Meeting – Information Science and Engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021 – (ODD)

The department curriculum committee was made and the meeting was held on 29/09/2020 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr.R.Kanagavalli	HOD
2.	Ms. Visalini S	Assot. Prof.
3.	Mr. Yadhu Krishna M R	Assot. Prof.
4.	Ms. KalaiSelvi	Asst. Prof.
5.	Ms. Kokila P	Asst. Prof.
6.	Mr. Channappa Gowda	Asst. Prof.
7.	Ms. InduK.S	Asst. Prof.
8.	Mr. Karthik S L	Asst. Prof.
9.	Mr. Amaresha	Asst. Prof.
10.	Ms.Sandhya rani	Asst. Prof.
11.	Ms.S.vidhya	Asst. Prof.
12.	Ms.Madhusmitha	Asst. Prof.
13.	Ms.Geetha Rani	Asst. Prof.
14.	Ms.Jeevitha	Asst. Prof.

Agenda:

1. Semester plan
2. Value-added and certificate programs
3. Conduction of seminars
4. Plan for Field Visit/ Industrial Visit
5. Plan for the (Final Year's) Project Works / Internships
6. Allotment the assignment topics and tutorial topics

ummary: Minutes



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1. HOD, Dr.Kanagavalli welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS)
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans for Field Visit/ Industrial Visit.
7. Planning for the (Final Year's) Project Works / Internships (with company names and details).
8. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2020 – 2021 odd semesters

Sl. No.	Name of the department	Name of the Certificate Program
1.	Information Science and Engineering	NIL

The following value-added programs will be conducted during 2020– 2021 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
2.	Information Science and Engineering	Soft skill training

Resolutions:

1. Result percentage to be improved.
2. Research activity to be improved.

(Signature)
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The Oxford College of Engineering
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HOD- ISC



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Departmental Committee Meeting - ECE

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019 - 2020 (EVEN)

The Department curriculum committee was made and the meeting was held on 8/02/2020 and the following members were present for the meeting.

S/no.	NAME	DESIGNATION
1	Dr.Manju Devi	Professor&Head
2	Dr.Vivek.M	Professor
3	Dr.PreetaSharan	Professor
4	Mr.N.Jayaraj	AssociateProf
5	Ms.ChrispinJiji	Asst.Professor
6	Ms.SowmyaPadukone.G	Asst.Professor
7.	Mr.BhargavRamGowd	Asst.Professor
8.	Ms.LayaTojo	Asst.Professor
9.	Ms.Chandrakala.S	Asst.Professor
10	Ms.Aruna.J	Asst.Professor
11	Mr.ManjunathSheth	Asst.Professor
12	Mr.Veeresh.H	Asst.Professor
13	Mr.Anand.K.Warad	Asst.Professor
14	Harshini.N.M	Asst.Professor
15	Mr.Shivaprasad	Asst.Professor
16	Ms.Lakshmi.R	Asst.Professor
17	Mr.AravindReddy	Asst.Professor
18	Dhanya	Asst.Professor



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19	JagadeeshwarReddy	Asst.Professor
20	Dr.AnilTiwari	Professor
21	Poojashri.C.S	Asst.Professor
22	Mohanti	Asst.Professor
23	PraveenKumar	Asst.Professor
24	Ashwini.M	Asst.Professor
25	NithikaBhasi	Asst.Professor
26	JishaChandra	Asst.Professor
27	Vidya.S.A	Asst.Professor
28	Sunitha.L	Asst.Professor
29	Srividya.G	Asst.Professor

Agenda:

- 1.EVENSemester Plan for Academics & Co-Curricular Activities
- 2.Introductionof CBCS& orientation for Students
- 3.Arrangement of Seminars,FieldVisits &Industrial Visit to Students
- 4.Conduction of Project Work,Internshipwork to Students

Summary:Minutesofmeeting

,Dr.ManjuDevi,HOD & Profwelcomed all the faculty and explained VTU, EvenSemesterregulations.

- 5.Semester plan for 2019-20EVENSemester and mentioning the activities planned inthe Department.



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Sl.No.	Nameofthedepartment	NameoftheCertificateProgram
1.	ECE	NCSEM-2020


6. The following value-added programs will be conducted during

2019 – 2020EVEN-Semester

Sl.No.	Nameofthedepartment	NameoftheCertificateProgram
1.	ECE	RTCSE-2020

Resolutions:

The HOD & Faculties of the Department will do the Resolution that We all will work towards the overall growth of the Department, Students & Organization


Professor & HOD of E&C Engineering
The Oxford College of Engineering
Bommanahalli, Bangalore - 560 068.

HOD - ECE



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Departmental Committee Meeting - ECE

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021 (ODD)

The Department curriculum committee was made and the meeting was held on 29/09/2020 and the following members were present for the meeting

S/no.	NAME	DESIGNATION
1.	Dr .ManjuDevi	HOD&Professor
2.	Dr.Vivek.M	Professor
3.	Dr.PreetiSharan	Professor
4.	Mr.N.Jayaraj	AssociateProf
5	Ms.ChrispinJiji	Asst.Professor
6	Ms.SowmyaPadukone.G	Asst.Professor
7.	Mr.BhargavRamGowd	Asst.Professor
8.	Ms.LayaTojo	Asst.Professor
9.	Ms.Chandrakala.S	Asst.Professor
10.	Ms.Aruna.J	Asst.Professor
11.	Mr.ManjunathSheth	Asst.Professor
12.	Mr.Veeresh.H	Asst.Professor
13.	Mr.Anand.K.Warad	Asst.Professor
14.	Ms.Ashwini.M	Asst.Professor
15.	Poojashri.C.S	Asst.Professor
16.	Ms.Lakshmi.R	Asst.Professor



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17.	Mr.AravindReddy	Asst.Professor
18.	Mr.PraveenKumar	Asst.Professor
19	Dhanya	Asst.Professor
20	NithikaBhasi	Asst.Professor
21	JishaChandra	Asst.Professor
22	JagadeeshwarReddy	Asst.Professor
23	Vidya	Asst.Professor
24	SriVidya	Asst.Professor
25	Sunitha.L	Asst.Professor
26	ShivaprasadWagh	Asst.Professor
27	Mohanthi	Asst.Professor
28	Dr.AnilTiwari	Professor
29	Dr.A.S.Aravind	Professor
30	Harshini.N.M	Asst.Professor

Agenda:

- 1.ODDSemester Plan for Academics & Co-Curricular Activities
- 2.Introduction of CBCS & orientation for Students
- 3.Arrangement of Seminars, FieldVisits &Industrial Visit to Students
- 4.Conduction of Project Work,Internshipwork to Students

Summary:Minutes of meeting

- Dr.ManjuDevi,HOD&Profwelcomed all the faculty and explained VTU, EvenSemesterregulations.
- Semester plan for 2020- 21ODD Semester and mentioning the activities planned in the Department.



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Sl.No.	Nameofthedepartment	NameoftheCertificateProgram
1.	ECE	NCSEM-2021

5. The following value-added programs will be conducted during 2020 – 2021 ODD-Semester

Sl.No.	Nameofthedepartment	NameoftheCertificateProgram
1.	ECE	RTCSE-2021

Resolutions:

The HOD & Faculties of the Department will do the Resolution that We all will work towards the over all growth of the Department, Students & Organization.

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The Oxford College of Engineering
Bommanahalli, Bangalore - 560 068.

HOD -ECE



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THE OXFORD COLLEGE OF ENGINEERING

Departmental Committee Meeting – (EEE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021 –(ODD)

The department curriculum committee was made and the meeting was held on 21/08/2020 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr.Bharath.V.S	Prof.& HOD
2	Dr.V.Chinnappan	Prof
3	Mrs.SandhyaRai	Assoc. Prof.
4	Mr.N.Jayakumar	Assoc. Prof.
5	Mrs.Nisha.C.Rani	Assoc.Prof.
6	Dr.B.DeviVighneshwari	Assoc. Prof.
7	Mrs.Raichel Ruby	Assoc.Prof.
8	Mrs.Manjula.C	Assoc.Prof.
9	Mrs.NalinaKumari	
10	Mr.Muniyappa.N	Asst.Prof.
11	Mrs.Thilaga.P	Asst.Prof.
12	Mrs.NavathaKumari	Asst.Prof.
13	Mrs.Sumitha.T.L	Asst.Prof.
14	Mrs.Someswari	Asst.Prof.
15	Mrs.Vinutha.Y.E	Asst.Prof.
16	Ms.Swapna.C.M	Asst.Prof.
17	Mrs.Resna.S.R	Asst.Prof
18	Ms.Deepa.R	Asst.Prof
19	Prakruthi Parthasarathy	Asst.Prof
20	Manjushree J	Asst.Prof



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21	Anoop H K	Asst.Prof
22	Maduri C	Asst.Prof
23	Poornima M	Asst.Prof

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship

Minutes of Meeting:

1. HOD, Dr.Bharath.V.S welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	17EE742	Utilization of Electrical power
2	17EE752	Testing and commissioning of power system Apparatus
3	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
4	17MATDIP31	Additional Mathematics –I

5. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
6. Department announced to conduct the regular seminars to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.



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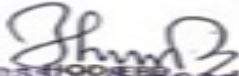
9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2020 – 2021 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	EEE	Technical Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Professor Head-EEE
The Oxford College of Engg
Bommanahalli, Hosur Road
Bangalore-560 068

HOD-EEE



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THE OXFORD COLLEGE OF ENGINEERING

Departmental Committee Meeting – (EEE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021 –(EVEN)

The department curriculum committee was made and the meeting was held on 23/04/2021 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr.Bharath.V.S	Prof.& HOD
2	Dr.V.Chinnappan	Prof
3	Mrs.SandhyaRai	Assoc. Prof.
4	Mr.N.Jayakumar	Assoc. Prof.
5	Mrs.Nisha.C.Rani	Assoc.Prof.
6	Dr.B.DeviVighneshwari	Assoc. Prof.
7	Mrs.Raichel Ruby	Assoc.Prof.
8	Mrs.Manjula.C	Assoc.Prof.
9	Mrs.NalinaKumari	
10	Mr.Muniyappa.N	Asst.Prof.
11	Mrs.Thilaga.P	Asst.Prof.
12	Mrs.NavathaKumari	Asst.Prof.
13	Mrs.Sumitha.T.L	Asst.Prof.
14	Mrs.Someswari	Asst.Prof.
15	Mrs.Vinutha.Y.E	Asst.Prof.
16	Ms.Swapna.C.M	Asst.Prof.
17	Mrs.Resna.S.R	Asst.Prof
18	Ms.Deepa.R	Asst.Prof
19	Prakruthi Parthasarathy	Asst.Prof
20	Manjushree J	Asst.Prof



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21	Anoop H K	Asst.Prof
22	Maduri C	Asst.Prof
23	Poornima M	Asst.Prof

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship

Minutes of Meeting:

1. HOD, Dr.Bharath.V.S, welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2020-21 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	18EE831	Smart grid
2	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
3	17MATDIP41	Additional Mathematics –II

3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.



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9. Mentor mentee list – discussion

10. The following certificate programs will be conducted during 2020– 2021 EVEN semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	EEE	Technical Training

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Professor in Charge-EEE
The Oxford College of Engg
Bommanahalli, Hosur Road
Bangalore-560 068

HOD- EEE



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Departmental Committee Meeting-(BRANCH):Mechanical engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021-(ODD)

The department curriculum committee was made and the meeting was held on 30/9/2020 and the following members were present for the meeting.

S/no.	NAME	DESIGNATION
1	DR. MADHUSUDHAN REDDY	HOD
2	RAVIPRAKASH	Professor
3	VIDHYADHAR POOJAR	Professor
4	PRASAD NAYAK	Professor
5	RAGHAVENDRAN	Assistant Professor
6	RAHUL D	Assistant Professor
7	RANGU P,	Assistant Professor
8	SHIVASHESH DRI	Assistant Professor
9	VINAY V	Assistant Professor
10	ANOOP UPADYAYA	Assistant Professor

Agenda:

1. Finalization of departmental activities for the academic year.
2. Allocation of subjects to faculties.
3. Approval of project batch.

Summary: Minutes

1. HOD, Dr. Madhusudhan Reddy welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS)



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4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans for Field Visit / Industrial Visit.
7. Planning for the (Final Year's) Project Works / Internships (with company names and details).
8. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2020 – 2021 odd semester

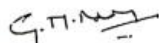
Sl.No.	Name of the department	Name of the Certificate Program
1	Mechanical engineering	Engineering graphics
2	Mechanical engineering	Programming with microprocessor

The following value-added programs will be conducted during 2020–2021 odd semester

Sl.No.	Name of the department	Name of the Value-added programs
1	Mechanical engineering	Design of circuit for hydraulics fluids
2	Mechanical engineering	Programming with microprocessor

Resolutions:

- Each faculty has to take two theory subjects and one lab, out of which one subject will be choice of faculty while the other subject will be left to the discretion of HOD.
- Departmental activities are to be planned as per calendar of institution and must be got approval from principal.
- Fore man is given in charge to finalise the budget allocations for various labs/workshops in consultation with lab in charges.


PROFESSOR & HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
THE OXFORD COLLEGE OF ENGINEERING
BOMMANAHALLI, BANGALORE-560068



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Mechanical Engineering

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021 – (EVEN)

The department curriculum committee was made and the meeting was held on 22/01/2021 and the following members were present for the meeting.

S/no.	NAME	DESIGNATION
1	DR.MADHUSUDHAN REDDY	HOD
2	RAVIPRAKASH	Professor
3	VIDHYADHAR POOJAR	Professor
4	PRASAD NAYAK	Professor
5	RAGHAVENDRAN	Assistant Professor
6	RAHULD	Assistant Professor
7	RANGU P,	Assistant Professor
8	SHIVASHESH DRI	Assistant Professor
9	VINAYV	Assistant Professor
10	ANOOPUPADYAYA	Assistant Professor

Agenda:

1. Allocation of subject to staff.
2. Identifying lab incharges/mentors/class teachers.
3. Finalizing departmental activities to be conducted.

Summary: Minutes

1. HOD, Dr. Madhusudhan Reddy welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2020-21 even semester and mentioning the activities planned in the department.

Sl.No.	Name of the Department	CBCS
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1.	Mechanicalengineering	8 th semester
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- The discussion of the subjects of CBCS given in the above table, selected by the students.
- As per the VTU regulation guidelines the students of B.E have to select one subject from the MOOCS-I, MOOCS-II& MOOCS-III

Sl.No	Name of the Department	MOOCS- I	MOOCS -II	MOOCS -III
1.	Mechanical engineering	nil	nil	nil

- Syllabus copy prescribed by the university circulated to the students and faculty.
- Department announced to conduct the regular seminars to the students.
- Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
- Department plans for Field Visit/Industrial Visit.
- Planning for the (Final Year's) Project Works/ Internships (with company names and details).
- Mentormentee list- discussion
- The following certificate programs will be conducted during 2020 – 2021
EVEN semester

Sl.No.	Name of the department	Name of the Certificate Program
1.	Mechanical engineering	nil

- The following value-added programs will be conducted during 2020– 2021
(EVEN semester)

Sl.No.	Name of the department	Name of the Value-added programs
6.	Mechanical engineering	nil

Resolutions:

- Allocation of subjects for staff senior staff to take first year classes.
- Class teachers/mentors/lab in charges are made.
- Lab instructors to be changed on priority basis so that each should be able to handle all mechanical labs.
- Mentormentee list approved.

PROFESSOR & HEAD
 DEPARTMENT OF MECHANICAL ENGINEERING
 THE OXFORD COLLEGE OF ENGINEERING
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THE OXFORD COLLEGE OF ENGINEERING

Departmental Committee Meeting – BIOTECHNOLOGY

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020 -2021 –(ODD)

The department curriculum committee was made and the meeting was held on 28/09/2020 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr. B.K.Manjunath	HOD
2.	Dr. Valarmathy	Asst.Professor
3.	Prof. Divakara	Asst.Professor
4.	Prof. Salma Kausar.M	Asst.Professor
5.	Prof. Aswathi. U	Asst.Professor

Agenda:

1. Semester planner was decided and department level coordinators work was allotted
2. General instruction & working plan of the department to be discussed
3. Updating of course files & NBA status discussion
4. Action plan to execute department activity.
5. Other points if any to be discussed

Summary: Minutes

1. Faculties were allotted with coordinator workload for the new academic year
2. Each faculty was assigned with theory & practical subject workload
3. faculties were asked to inform students about the digital library in the college & make use of it effectively'
4. All faculties were informed to strictly monitor the attendance & IA performance of students.
5. All faculties were informed to ensure every class performs at least 2 activities.



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Resolutions:

1. To achieve better results and aiming for many more VTU ranks.
2. To encourage students to undergo Certificate/Value Added courses.
3. To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the department
DR. B.K. MANJUNATHA
Professor & Head
Department of Biotechnology
The Oxford College of Engineering
Bangaluru-560 068

HOD (SEAL)



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Departmental Committee Meeting – BIOTECHNOLOGY

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020 -2021 –(EVEN)

The department curriculum committee was made and the meeting was held on 28/02/2021 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr. B.K.Manjunath	HOD
2.	Dr. Valarmathy	Asst.Professor
3.	Prof. Divakara	Asst.Professor
4.	Prof. Salma Kausar.M	Asst.Professor
5.	Prof. Aswathi. U	Asst.Professor

Agenda:

1. Semester planner was decided and department level coordinators work was allotted
2. General instruction & working plan of the department to be discussed
3. Updating of course files & NBA status discussion
4. Action plan to execute department activity.
5. Other points if any to be discussed

Summary: Minutes

- Faculties were allotted with coordinator workload for the new academic year
- Each faculty was assigned with theory & practical subject workload
- faculties were asked to inform students about the digital library in the college & make use of it effectively'
- All faculties were informed to strictly monitor the attendance & IA performance of students.
- All faculties were informed to ensure every class performs at least 2 activities.



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Resolutions:

- To achieve better results and aiming for many more VTU ranks.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the department
DR. B.K. MANJUNATHA
Professor & Head
Department of Biotechnology
The Oxford College of Engineering
Bengaluru-560 068

HOD (SEAL)



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THE OXFORD COLLEGE OF ENGINEERING

Departmental Committee Meeting – (CIVIL)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021 –(ODD)

The department curriculum committee was made and the meeting was held on 30/09/2020 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. T S Malleshaiah	Professor
2	Mr Shivanand C G	Assot Professor
3	Mr. Prashanth	Asst. Professor
4	Mr. Maheshkumar	Asst. Professor
5	Ms. Kavya	Asst. Professor
6	Ms. Harsha	Asst. Professor
7	Ms. Shradha	Asst. Professor
8.	Mrs.Nayana B S	Asst .Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

- 1.HOD, Dr. T S Malleshaiah welcomed all the faculty and explained VTU, ODD semester regulations.
- 2.As per the VTU regulation guidelines the students of all Odd semester should follow it.
- 3.VTU has introduced Choice Based Credit System (CBCS).



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4. Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	18CV734	Ground Water Hydraulics
2	18CV745	Urban transport planning
3	18MATDIP31	Additional Mathematics –I

5. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.

6. Department announced to conduct the regular seminars to the students.


7. Department plans for Field Visit / Industrial Visit.

8. Planning for the Final Year's Project Works / Internships.

9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the Department
Department of Civil Engineering
The Oxford College of Engineering
Bangalore - 560 068.



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THE OXFORD COLLEGE OF ENGINEERING

Departmental Committee Meeting – (CIVIL)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021 –(EVEN)

The department curriculum committee was made and the meeting was held on 13/04/2021 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. T S Malleshaiah	Professor
2	Mr Shivanand C G	Assot Professor
3	Mr. Prashanth	Asst. Professor
4	Mr. Maheshkumar	Asst. Professor
5	Ms. Kavya	Asst. Professor
6	Ms. Harsha	Asst. Professor
7	Ms. Shradha	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:



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1.HOD, Dr.T S Malleshaiah welcomed all the faculty and explained VTU, EVEN semester regulations.

2.Semester plan for 2018-19 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	18CV825	Pavement Design

3.The discussion of the subjects of CBCS given in the above table, selected by the students.

4.Syllabus copy prescribed by the university circulated to the students and faculty.

5.Department announced to conduct the regular seminars to the students.

6.Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.


7.Department plans for Field Visit / Industrial Visit.

8.Planning for the Final Year's Project Works / Internships.

9.Mentor mentee list – discussion

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Head of the Department
Department of Civil Engineering
The Oxford College of Engineering
Bangalore - 560 068.



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THE OXFORD COLLEGE OF ENGINEERING

Departmental Committee Meeting – (Automobile Engineering)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021 –(ODD)

The department curriculum committee was made and the meeting was held on 06/10/2020 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. Raju B R	Professor
2	Dr.K.Sathish Babu	Professor
3	Mr. Sandeep K Chavan	Assot. Professor
4	Mr. Maruthi S B	Asst. Professor
5	Mr. Deepak U. S	Asst. Professor
6	Mr. Raviteja R. N	Asst. Professor
7	Mr.Sapthagiri Prasad N	Asst. Professor
8	Mr.Prasanna S M	Asst. Professor
9	Mr. Karthik. K	Asst. Professor
10	Mr.Shivrudrappa Desai	Asst. Professor
11	Mr.VikasBevoor	Asst. Professor
12	Mr.Santhosh K	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship



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- Implementation of feedback from different stakeholders.

Minutes of Meeting:

- 1.HOD, Dr.Raju B R welcomed all the faculty and explained VTU, ODD semester regulations.
- 2.As per the VTU regulation guidelines the students of all odd semester should follow it.
- 3.VTU has introduced Choice Based Credit System (CBCS).
- 4.Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	17AU741	Earth Moving Equipment & Tractors
2	17AU754	Two And Three Wheeled Vehicle
5	18KVK/KAK/39/49 18CPC39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
6	18MATDIP31	Additional Mathematics –I

- 5.The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
- 6.Department announced to conduct the regular seminars to the students.
- 7.Department plans for Field Visit / Industrial Visit.
- 8.Planning for the Final Year's Project Works / Internships.
- 9.Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2020 – 2021 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	Automobile Engg.	NIL



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Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

Professor & Head
Department of Automobile Engineering
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bangalore-560 068



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THE OXFORD COLLEGE OF ENGINEERING

Departmental Committee Meeting – (Automobile Engineering)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2019-2020 – (EVEN)

The department curriculum committee was made and the meeting was held on 17/02/2021 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. Raju B R	Professor
2	Dr.K.Sathish Babu	Professor
3	Mr. Sandeep K Chavan	Assot. Professor
4	Mr. Maruthi S B	Asst. Professor
5	Mr. Deepak U. S	Asst. Professor
6	Mr. Raviteja R. N	Asst. Professor
7	Mr.Sapthagiri Prasad N	Asst. Professor
8	Mr.Prasanna S M	Asst. Professor
9	Mr. Karthik. K	Asst. Professor
10	Mr.Shivrudrappa Desai	Asst. Professor
11	Mr.VikasBevoor	Asst. Professor
12	Mr.Santhosh K	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.



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- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. Raju B R, welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2020-21 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	15AU831	Total Quality Management
2	17AU653	Composite Materials
3	17AU663	Non-destructive Testing
4	18KVK/KAK/39/49 18CPC39/49	Kannada/Constitution of India, Professional Ethics and Human Rights
5	18MATDIP41	Additional Mathematics –II

3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Mentor mentee list – discussion
10. The following certificate programs will be conducted during 2020 – 2021 EVEN semester.

Sl. No.	Name of the department	Name of the Certificate Program
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1	Automobile Engineering	nil
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Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Professor & Head
Department of Automobile Engineering
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bangalore-560 068



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THE OXFORD COLLEGE OF ENGINEERING

Departmental Committee Meeting – (MTE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021 –(ODD)

The department curriculum committee was made and the meeting was held on 14/07/2020 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. NB Doddapattar	Professor & HOD
2	Dr. Shivappa	Professor & HOD
3	Mr. Rajesh	Asst. Professor
4	Mr. Rgavendra	Asst. Professor
5	Mr. Ravi s Jadhav	Asst. Professor
6	Ms. Rekha	Asst. Professor
7	Ms. Premela	Asst. Professor
9	Ms. Vijaykumar kurubha	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- Implementation of Cross cutting Issues.
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:



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1. HOD, Dr. Yashoda welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans for Field Visit / Industrial Visit.
7. Planning for the Final Year's Project Works / Internships.
8. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following certificate programs will be conducted during 2020 – 2021 odd semester

Sl. No.	Name of the department	Name of the Certificate Program
1	MTE	MATLAB
2		LEGO
3		ROBOTICS

The following value-added programs will be conducted during 2020 – 2021 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
	MTE	Soft Skill Training

Resolutions:



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- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.

C. S. S.
HOD

Prof. & HOD
Department of Mechatronics
The Oxford College Of Engineering
Bommanahalli Bangalore - 560 068.



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THE OXFORD COLLEGE OF ENGINEERING

Departmental Committee Meeting – (MTE)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021 –(EVEN)

The department curriculum committee was made and the meeting was held on 01/02/2021 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. NB Doddapattar	Professor & HOD
2	Dr. Shivappa	Professor & HOD
3	Mr. Rajesh	Asst. Professor
4	Mr. Rgavendra	Asst. Professor
5	Mr. Ravi s Jadhav	Asst. Professor
6	Ms. Rekha	Asst. Professor
7	Ms. Premela	Asst. Professor
9	Ms. Vijaykumar kurubha	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:



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19. HOD, Dr. Rohini Deshpande, welcomed all the faculty and explained VTU, EVEN semester regulations.
20. Semester plan for 2020-21 even semester and mentioning the activities planned in the department.
21. Syllabus copy prescribed by the university circulated to the students and faculty.
22. Department announced to conduct the regular seminars to the students.
23. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
24. Department plans for Field Visit / Industrial Visit.
25. Planning for the Final Year's Project Works / Internships.
26. Mentor mentee list – discussion
27. The following certificate programs will be conducted during 2020 – 2021 EVEN semester

Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.



HOD

Prof. & HOD

Department of Mechatronics
The Oxford College Of Engineering
Bommanahalli Bangalore - 560 068.



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THE OXFORD COLLEGE OF ENGINEERING

MBA - DEPARTMENTAL CURRICULUM COMMITTEE MEETING
2020-2021 –(ODD)

The department curriculum committee was made and the meeting was held on 30/09/2020 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr R V Dhanalakshmi	HOD
2.	Dr.kTaraka Rami Reddy	Professor
3.	Dr Kathiravan	Associate Professor
4.	Dr. R K Prema	Assistant Professor
5.	Ms.Sahana	Assistant Professor
6.	Ms.Sireesha B	Assistant Professor
7.	Ms Padmaja P	Assistant Professor

Agenda:

1. Welcome and Syllabus discussion.
2. Seminars plan.
3. Project work
4. Industrial visit and Field work



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Summary: Minutes

1. HOD, Dr. R V Dhanalakshmi welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. Syllabus copy prescribed by the university circulated to the students and faculty.
4. Department announced to conduct the regular seminars to the students.
5. Department plans for Field Visit/ Industrial Visit.
6. Planning for the (Final Year's)Project Works / Internships (with company names and details).
7. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

Resolutions:

1. Syllabus copy circulated on or before 2nd October.
2. For each subject, one seminar needs to be conducted.
3. One industrial visit to be arranged on or before Nov 2nd 2020
4. Project work company details and list to be collect within Nov.

HOD - MBA

HOD, Deptt. of Business Administration
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bangalore 560 068



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MBA - DEPARTMENTAL CURRICULUM COMMITTEE MEETING
2020-2021 – (EVEN)

The department curriculum committee was made and the meeting was held on 08/05/2021 and the following members were present for the meeting.

Sl no.	NAME	DESIGNATION
1.	Dr R V Dhanalakshmi	HOD
2.	Dr.kTaraka Rami Reddy	Professor
3.	Dr Kathiravan	Associate Professor
4.	Dr. R K Prema	Assistant Professor
5.	Ms.Sahana	Assistant Professor
6.	Ms.Sireesha B	Assistant Professor
7.	Ms Padmaja P	Assistant Professor

Agenda:

1. Syllabus Overview.
2. Seminars and activities plan.
3. Project work / Internship Guidance.
4. Industrial visit and Field work plan.

Summary: Minutes

1. HOD, Dr. R V Dhanalakshmi welcomed all the faculty and explained VTU, ODD semester regulations.



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2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. Syllabus copy prescribed by the university circulated to the students and faculty.
4. Department announced to conduct the regular seminars to the students.
5. Department plans for Field Visit/ Industrial Visit.
6. Planning for the (Final Year's)Project Works / Internships (with company names and details).
7. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

Resolutions:

1. Syllabus copy circulated on or before 10th May.
2. For each subject, one seminar needs to be conduct and online workshop programs.
3. One industrial visit to be arranged on or before May 15th 2021
4. Online webinar and quiz activities for students have to be conducted on before 20th May 2021.

HOD -MBA

HOD, Deptt. of Business Administration
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bangalore 560 068



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Departmental Committee Meeting – (MCA)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021 –(ODD)

The department curriculum committee was made and the meeting was held on 25/07/2020 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. M S Shashidhara	Professor
2	Dr. Praveen Kumar P U	Professor
3	Dr.Susil Kumar Sahu	Professor
4	Mr.Ashok B P	Assot. Professor
5	Mr. Dharamvir	Assot. Professor
6	Mr. JC Achutha	Assot. Professor
7	Mrs. Saritha S	Assot. Professor
8	Mrs. Mridula Shukla	Assot. Professor
9	Mrs. Selvi E	Assot. Professor
10	Ms. R Ushasree	Asst. Professor
11	Mr. Changappa M R	Asst. Professor
12	Mr. Indrakumar S S	Asst. Professor
13	Mrs. Stuti Agarwal	Asst. Professor
14	T Sreevani	Asst. Professor
15	Divyasree Nayak	Asst. Professor
16	Mr. Chandran M	Asst. Professor
17	Mrs.Selastina Mary A	Asst. Professor
18	Mrs.Moumita Kali	Asst. Professor

Agenda:

- Implementation of prescribed university syllabus approved by Principal for odd semester.
- Implementation of CBCS syllabus prescribed by the university for odd semester.



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- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. M S Shashidhara welcomed all the faculty and explained VTU, ODD semester regulations.
2. As per the VTU regulation guidelines the students of all Odd semester should follow it.
3. VTU has introduced Choice Based Credit System (CBCS).
4. Syllabus copy prescribed by the university circulated to the students and faculty.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	20MCA14	Mathematical Foundation for Computer Applications
2	20MCA15	Research Methodology & IPR

5. The discussion of the subjects of CBCS given in the above table, elective subjects selected by the students.
6. Department announced to conduct the regular seminars to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.

The following value-added programs will be conducted during 2020 – 2021 odd semester

Sl. No.	Name of the department	Name of the Value-added programs
1.	MCA	Soft Skill Training

Resolutions:

- To achieve better results.
- To encourage students to undergo Certificate/Value Added courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Signature of the HOD
Dr. M.S. Shashidhara
Dept. of MCA



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Departmental Committee Meeting – (MCA)

DEPARTMENTAL CURRICULUM COMMITTEE MEETING 2020-2021 –(EVEN)

The department curriculum committee was made and the meeting was held on 19/02/2021 and the following members were present for the meeting.

Sl. No.	Name	Designation
1	Dr. M S Shashidhara	Professor
2	Dr. Praveen Kumar P U	Professor
3	Dr.Susil Kumar Sahu	Professor
4	Mr.Ashok B P	Assot. Professor
5	Mr. Dharamvir	Assot. Professor
6	Mr. JC Achutha	Assot. Professor
7	Mrs. Saritha S	Assot. Professor
8	Mrs. Mridula Shukla	Assot. Professor
9	Mrs. Selvi E	Assot. Professor
10	Ms. R Ushasree	Asst. Professor
11	Mr. Changappa M R	Asst. Professor
12	Mr. Indrakumar S S	Asst. Professor
13	Mrs. Stuti Agarwal	Asst. Professor
14	T Sreevani	Asst. Professor
15	Divyasree Nayak	Asst. Professor
16	Mr. Chandran M	Asst. Professor
17	Mrs.Selastina Mary A	Asst. Professor
18	Mrs.Moumita Kali	Asst. Professor



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Agenda:

- Implementation of prescribed university syllabus approved by Principal for even semester.
- Implementation of CBCS syllabus prescribed by the university for even semester.
- Adherence to the Academic Calendar
- Implementation of certificate/value added courses.
- **Implementation of Cross cutting Issues.**
- Implementation of field visits, project work, internship
- Implementation of feedback from different stakeholders.

Minutes of Meeting:

1. HOD, Dr. M S Shashidhara, welcomed all the faculty and explained VTU, EVEN semester regulations.
2. Semester plan for 2020-21 even semester and mentioning the activities planned in the department.

Sl. No.	CBCS ELECTIVE/MATDIP	
1	20MCA262	Artificial Intelligence
2	:20MCA263	Mobile Applications Development

3. The discussion of the subjects of CBCS given in the above table, selected by the students.
4. Syllabus copy prescribed by the university circulated to the students and faculty.
5. Department announced to conduct the regular seminars to the students.
6. Department plans to allot the assignment topics to the students and to allocate the tutorial topics to the students.
7. Department plans for Field Visit / Industrial Visit.
8. Planning for the Final Year's Project Works / Internships.
9. Mentor mentee list – discussion
10. The following certificate programs will be conducted during 2020 – 2021 EVEN semester

Sl. No.	Name of the department	Name of the Certificate Program
1	MCA	NPTEL, Udemy



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Resolutions:

- To achieve VTU Ranks.
- To encourage students to undergo MOOC courses.
- To encourage students to undergo internship in Govt. Sectors/Reputed MNC Companies.


Signature of the HOD
Dr. M.S.Shashidhara
Dept. of MCA



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List and Description of courses (1) Subject, (2) Subject Code, (3) Curriculum Objective, (4) Delivery Methodology with Number of hours, (5) PO, PSO, CO Mapping, (6) Crosscutting Issues Integrated which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Dept. of Computer Science & Engineering

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI																
Scheme of Teaching and Examination 2018 – 19																
Choice Based Credit System (CBCS) AND Outcome Based Education																
(OBE) (Effective from the academic year 2018 – 19)																
III SEMESTER																
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits					
					Theory Lectures	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks				
					L	T	P									
1	BSC	18MAT31	Transform Calculus, Fourier Series And Numerical Techniques	Mathematics	2	2	--	03	40	60	100	3				
2	PCC	18CS32	Data Structures and Applications	CS / IS	3	2	--	03	40	60	100	4				
3	PCC	18CS33	Analog and Digital Electronics	CS / IS	3	0	--	03	40	60	100	3				
4	PCC	18CS34	Computer Organization	CS / IS	3	0	--	03	40	60	100	3				
5	PCC	18CS35	Software Engineering	CS / IS	3	0	--	03	40	60	100	3				
6	PCC	18CS36	Discrete Mathematical Structures	CS / IS	3	0	--	03	40	60	100	3				
7	PCC	18CSL37	Analog and Digital Electronics Laboratory	CS / IS	--	2	2	03	40	60	100	2				
8	PCC	18CSL38	Data Structures Laboratory	CS / IS	--	2	2	03	40	60	100	2				
9	HSMC	18KVK39	Vyavaharika Kannada (Kannada for communication)/	HSMC	-	2	-	--	100	--	100	1				
		18KAK39	Aadalitha Kannada (Kannada for Administration)										-	-		
		OR													OR	
		18CPC39	Constitution of India, Professional Ethics and Cyber Law												1	--	--	02	40	60
Examination is by objective type questions																
TOTAL					17	08		24	420	480	900	24				
					OR	OR		OR	OR	OR						
					18	10	04	26	360	540						



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B. E. Common to all Programmes Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To <ul style="list-style-type: none"> • know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens • Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. • Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution: The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive: Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions: Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, , 75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions: Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			
Professional / Engineering Ethics: Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism , Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility . Clash of Ethics , Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering			
Module-5			



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Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for **Cyber Laws**, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be able to,

CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and **Professional ethics and responsibilities** of Engineers.

CO 3: Understand the the cybercrimes and **cyber laws** for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004



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Scheme of Teaching and Examination 2018 – 19												
Choice Based Credit System (CBCS) AND Outcome Based Education (OBE)												
(Effective from the academic year 2018 – 19)												
V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory	Tutorial	Practical	Duration	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	HSMC	18CS51	Management, Entrepreneurship for IT industry	HSMC	2	2	--	03	40	60	100	3
2	PCC	18CS52	Computer Networks and Security	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS53	Database Management System	CS / IS	3	2	--	03	40	60	100	4
4	PCC	18CS54	Automata theory and Computability	CS / IS	3	--	--	03	40	60	100	3
5	PCC	18CS55	Application Development using Python	CS / IS	3	--	--	03	40	60	100	3
6	PCC	18CS56	Unix Programming	CS / IS	3	--	--	03	40	60	100	3
7	PCC	18CSL57	Computer Network Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL58	DBMS Laboratory with mini project	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting: Civil Engineering Board]	1	--	--	02	40	60	100	1
TOTAL					18	10	04	26	360	540	900	25
Note: PCC: Professional Core, HSMC: Humanity and Social Science.												
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.												



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B. E. COMMON TO ALL PROGRAMMES				
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)				
SEMESTER – V				
ENVIRONMENTAL STUDIES				
Course Code	18CIV59	CIE Marks	40	
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60	
Credits	01	Exam Hours	02	
Module - 1				
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.				
Module - 2				
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.				
Module - 3				
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and Air Pollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.				
Module - 4				
Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology .				
Module - 5				
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.				
Course Outcomes: At the end of the course, students will be able to: <ul style="list-style-type: none"> • CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale, • CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment. • CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components. • CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues. 				
Question paper pattern: <ul style="list-style-type: none"> • The Question paper will have 100 objective questions. • Each question will be for 01 marks • Student will have to answer all the questions in an OMR Sheet. • The Duration of Exam will be 2 hours. 				
Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year



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Textbook/s

1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition 2018
3	Environmental Studies– From Crisis to Cure	RRajagopalan	Oxford Publisher	2005

Reference Books

1	Principals of Environmental Science andEngineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition



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B.E Information Science & Engineering

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Scheme of Teaching and Examination 2018 – 19															
Choice Based Credit System (CBCS) AND Outcome Based Education															
(OBE) (Effective from the academic year 2018 – 19)															
III SEMESTER															
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits				
					Theory Lectures	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks			
					L	T	P								
1	BSC	18MAT31	Transform Calculus, Fourier Series And Numerical Techniques	Mathematics	2	2	--	03	40	60	100	3			
2	PCC	18CS32	Data Structures and Applications	CS / IS	3	2	--	03	40	60	100	4			
3	PCC	18CS33	Analog and Digital Electronics	CS / IS	3	0	--	03	40	60	100	3			
4	PCC	18CS34	Computer Organization	CS / IS	3	0	--	03	40	60	100	3			
5	PCC	18CS35	Software Engineering	CS / IS	3	0	--	03	40	60	100	3			
6	PCC	18CS36	Discrete Mathematical Structures	CS / IS	3	0	--	03	40	60	100	3			
7	PCC	18CSL37	Analog and Digital Electronics Laboratory	CS / IS	--	2	2	03	40	60	100	2			
8	PCC	18CSL38	Data Structures Laboratory	CS / IS	--	2	2	03	40	60	100	2			
9	HSMC	18KVK39	Vyavaharika Kannada (Kannada for communication)/	HSMC	-	2	-	--	100	--	100	1			
		18KAK39	Aadalitha Kannada (Kannada for Administration)										-		
		OR												OR	
		18CPC39	Constitution of India, Professional Ethics and Cyber Law											1	--	--	02	40	60
Examination is by objective type questions															
TOTAL					17	08		24	420	480	900	24			
				OR	OR		OR	OR	OR						
				18	10	04	26	360	540						



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B. E. Common to all Programmes Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To <ul style="list-style-type: none"> know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution: The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive: Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions: Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions: Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			
Professional / Engineering Ethics: Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism , Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility . Clash of Ethics , Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering			
Module-5			



CHILDREN'S EDUCATION SOCIETY (Regd.)
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Ph: 080-61754601/602, Fax: 080 - 25730551

E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for **Cyber Laws**, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be able to,

CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and **Professional ethics and responsibilities** of Engineers.

CO 3: Understand the the cybercrimes and **cyber laws** for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Choice Based Credit System (CBCS) AND Outcome Based Education (OBE)												
(Effective from the academic year 2018 – 19)												
V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory	Tutorial	Practical	Duration	CIE Marks	SEE Marks	Total Marks	
1	HSMC	18CS51	Management, Entrepreneurship for IT industry	HSMC	2	2	--	03	40	60	100	3
2	PCC	18CS52	Computer Networks and Security	CS / IS	3	2	--	03	40	60	100	4
3	PCC	18CS53	Database Management System	CS / IS	3	2	--	03	40	60	100	4
4	PCC	18CS54	Automata theory and Computability	CS / IS	3	--	--	03	40	60	100	3
5	PCC	18CS55	Application Development using Python	CS / IS	3	--	--	03	40	60	100	3
6	PCC	18CS56	Unix Programming	CS / IS	3	--	--	03	40	60	100	3
7	PCC	18CSL57	Computer Network Laboratory	CS / IS	--	2	2	03	40	60	100	2
8	PCC	18CSL58	DBMS Laboratory with mini project	CS / IS	--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting: Civil Engineering Board]	1	--	--	02	40	60	100	1
TOTAL					18	10	04	26	360	540	900	25
Note: PCC: Professional Core, HSMC: Humanity and Social Science.												
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.												



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B. E. COMMON TO ALL PROGRAMMES			
Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V			
ENVIRONMENTAL STUDIES			
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.			
Module - 3			
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and AirPollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.			
Module - 4			
Global Environmental Concerns (Concept, policies and case-studies):Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.			
Module - 5			
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.			
Course Outcomes: At the end of the course, students will be able to:			
<ul style="list-style-type: none"> • CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale, • CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment. • CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components. • CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues. 			



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Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
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Textbook/s

1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition, 2018
3	Environmental Studies– From Crisis to Cure	RRajagopalan	Oxford Publisher	2005

Reference Books

1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Sing, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition



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B.E Electronics & Communication Engineering

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018-19												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018-19)												
Programme: B.E: Electronics & Communication Engineering												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours/Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CBE Marks	SEE Marks		Total Marks
					L	T	P					
1	BSC	18MAT31	Transform Calculus, Fourier Series and Numerical Techniques	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18EC32	Network Theory		3	2	--	03	40	60	100	4
3	PCC	18EC33	Electronic Devices		3	0	--	03	40	60	100	3
4	PCC	18EC34	Digital System Design		3	0	--	03	40	60	100	3
5	PCC	18EC35	Computer Organization & Architecture		3	0	--	03	40	60	100	3
6	PCC	18EC36	Power Electronics & Instrumentation		3	0	--	03	40	60	100	3
7	PCC	18ECL37	Electronic Devices & Instrumentation Laboratory		--	2	2	03	40	60	100	2
8	PCC	18ECL38	Digital System Design Laboratory		--	2	2	03	40	60	100	2
9	HSMC	18KVK3949	Vyavaharika Kannada (Kannada for Communication)	HSMC	--	2	--	--	100	--	100	1
		18KAK3949	Adalitha Kannada (Kannada for Administration)									
		OR										
		18CPC3949	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60		
					Examination is by objective type questions							
TOTAL					17	10		24	420	480	900	24
					OR	OR		OR	OR	OR		
					18	08	04	28	360	540		



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B. E. Common to all Programmes			
Outcome Based Education (OBE) and Choice Based Credit System			
(CBCS) SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution:			
The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive:			
Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions:			
Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions:			
Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			
Professional / Engineering Ethics:			
Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics , Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering			
Module-5			



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Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for **Cyber Laws**, Modes of Regulation of Internet, Types of cyber terror capability, Net

neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will be able to, CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and **Professional ethics and responsibilities** of Engineers.

CO 3: Understand the the cybercrimes and **cyber laws** for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction tothe Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018-19												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 - 19)												
Programme: B.E: Electronics & Communication Engineering												
V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	HSMC	18ES51	Technological Innovation Management and Entrepreneurship		3	0	--	03	40	60	100	3
2	PCC	18EC52	Digital Signal Processing		3	2	--	03	40	60	100	4
3	PCC	18EC53	Principles of Communication Systems		3	2	--	03	40	60	100	4
4	PCC	18EC54	Information Theory & Coding		3	--	--	03	40	60	100	3
5	PCC	18EC55	Electromagnetic Waves		3	--	--	03	40	60	100	3
6	PCC	18EC56	Verilog HDL		3	--	--	03	40	60	100	3
7	PCC	18ECL37	Digital Signal Processing Laboratory		--	2	2	03	40	60	100	2
8	PCC	18ECL38	HDL Laboratory		--	2	2	03	40	60	100	2
9	HSMC	18CIV39	Environmental Studies	Civil/Environmental	1	--	--	02	40	60	100	1
				[Paper setting: Civil Engineering Board]								
TOTAL					19	8	4	26	360	540	900	25

Note: PCC: Professional Core, HSMC: Humanity and Social Science.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.



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B. E. COMMON TO ALL PROGRAMMES			
Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V			
ENVIRONMENTAL STUDIES			
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.			
Module - 3			
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and AirPollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.			
Module - 4			
Global Environmental Concerns (Concept, policies and case-studies):Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.			
Module - 5			
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.			
Course Outcomes: At the end of the course, students will be able to: <ul style="list-style-type: none"> • CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale, • CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment. • CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components. • CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues. 			



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Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				

1	Environmental Studies	Benny Joseph	Tata Mc Graw – Hill.	2 nd Edition, 2012
2.	Environmental Studies	S M Prakash	Pristine Publishing House, Mangalore	3 rd Edition, 2018
3	Environmental Studies– From Crisis to Cure	RRajagopalan	Oxford Publisher	2005

Reference Books

1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage learning, Singapur.	2 nd Edition, 2005
2	Environmental Science – working with the Earth	G.Tyler Miller Jr.	Thomson Brooks /Cole,	11 th Edition, 2006



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B.E Electrical & Electronics Engineering

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
III SEMESTER												
SL No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	BSC	18MAT31	Transform Calculus, Fourier Series and Numerical Techniques (Common to all Branches)	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18EE32	Electric Circuit Analysis	EEE	3	2	--	03	40	60	100	4
3	PCC	18EE33	Transformers and Generators	EEE	3	0	--	03	40	60	100	3
4	PCC	18 EE 34	Analog Electronic Circuits	EEE	2	2	--	03	40	60	100	3
5	PCC	18 EE 35	Digital System Design	EEE	3	0	--	03	40	60	100	3
6	PCC	18 EE 36	Electrical and Electronic Measurements	EEE	3	0	--	03	40	60	100	3
7	PCC	18 EE L37	Electrical Machines Laboratory -1	EEE	--	2	2	03	40	60	100	2
8	PCC	18 EE L38	Electronics Laboratory	EEE	--	2	2	03	40	60	100	2
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39	Constitution of India, Professional Ethics and Cyber Law									
TOTAL					16	10	04	24	420	480	900	24
					OR	OR		OR	OR	OR		
					17	12		26	360	540		



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 - 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 - 19)												
VII SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	PCC	18 EE71	Power System Analysis - 2	EEE	2	2	--	03	40	60	100	3
2	PCC	18 EE72	Power System Protection	EEE	3	--	--	03	40	60	100	3
3	PEC	18 EE73X	Professional Elective - 2	EEE	3	--	--	03	40	60	100	3
4	PEC	18 EE74X	Professional Elective - 3	EEE	3	--	--	03	40	60	100	3
5	OEC	18 EE75X	Open Elective -B	EEE	3	--	--	03	40	60	100	3
6	PCC	18 EEL76	PSS laboratory	EEE	--	2	2	03	40	60	100	2
7	PCC	18 EEL77	Relay & HV lab	EEE	--	2	2	03	40	60	100	2
8	Project	18 EEP78	Project Work Phase - 1	EEE	--	--	2	--	100	--	100	1
9	Internship	--	Internship	(If not completed during the vacation of VI and VII semesters, it shall be carried out during the vacation of VII and VIII semesters)								
TOTAL					14	06	06	21	380	420	800	20
Note: PCC: Professional core, PEC: Professional Elective.												
Professional Elective - 2												
Course code under 18XX73X		Course Title										
18EE731		Solar and Wind Energy										
18EE732		Micro and Nano Scale Sensors and Transducers										
18 EE733		Integrated of Distribution Generation.										
18 EE734		Advanced Control Systems										
18 EE735		Reactive Power Control in Electric Power Systems										



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Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
IV SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BSC	18MAT41	Complex analysis, probability and statistical methods	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18 EE42	Power Generation and Economics	EEE	3	0	--	03	40	60	100	3
3	PCC	18 EE43	Transmission and Distribution	EEE	3	2	--	03	40	60	100	4
4	PCC	18 EE44	Electric Motors	EEE	3	0	--	03	40	60	100	3
5	PCC	18 EE45	Electromagnetic Field Theory	EEE	2	2	--	03	40	60	100	3
6	PCC	18 EE46	Operational Amplifiers and Linear ICs	EEE	3	0	--	03	40	60	100	3
7	PCC	18 EEL47	Electrical Machines Laboratory -2	EEE	--	2	2	03	40	60	100	2
8	PCC	18 EEL48	Op- amp and Linear ICs Laboratory	EEE	--	2	2	03	40	60	100	2
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPH49	Constitution of India, Professional Ethics and Cyber Law									
TOTAL					16	10		24	420	480	900	24
					OR	OR	04	OR	OR	OR		
					17	12		26	360	540		



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B. E. Common to all Programmes			
Outcome Based Education (OBE) and Choice Based Credit System			
(CBCS) SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> • know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens • Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. • Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution:			
The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive:			
Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions:			
Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions:			
Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			
Professional / Engineering Ethics:			
Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics . Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility . Clash of Ethics , Conflicts of Interest. Responsibilities in Engineering			
Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in			



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Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering

Module-5

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for Cyber Laws, Modes of Regulation of Internet, Types of cyber terror capability, Net

neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.

Course Outcomes: On completion of this course, students will

be able to, CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and Professional ethics and responsibilities of Engineers.

CO 3: Understand the the cybercrimes and cyber laws for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type(MCQ).
- For the award of 40 CIE marks, refer the University regulations2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and et al	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018
Reference Books				
3	Introduction to the Constitution of India	Durga Das Basu	Prentice –Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthilkumar	Prentice –Hall,	2004



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B. E. COMMON TO ALL PROGRAMMES			
Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V			
ENVIRONMENTAL STUDIES			
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.			
Module - 3			
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and AirPollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.			
Module - 4			
Global Environmental Concerns (Concept, policies and case-studies):Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.			
Module - 5			
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.			
Course Outcomes: At the end of the course, students will be able to:			
<ul style="list-style-type: none"> • CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale, • CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment. • CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components. • CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues. 			



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Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				

SOLAR AND WIND ENERGY 18EE731

SOLAR AND WIND ENERGY

Module-1 Fundamentals of Energy Science and Technology: Introduction, Energy, Economy and Social Development, Classification of Energy Sources, Importance of Non-conventional Energy Sources, Salient features of Non-conventional Energy Sources, **World Energy Status**, Energy Status in India. Energy Conservation and Efficiency: Introduction, Important Terms and Definitions, Important Aspects of Energy Conservation, Global Efforts, Achievements and Future Planning, Energy Conservation/Efficiency **Scenario in India, Energy Audit, Energy Conservation Opportunities**. Energy Storage: Introduction, Necessity of Energy Storage, Specifications of Energy Storage Devices. Solar Energy-Basic Concepts: Introduction, **The Sun as Source of Energy, The Earth, Sun, Earth Radiation Spectrum**, Extraterrestrial and Terrestrial Radiations, Spectral Power Distribution of Solar Radiation, Depletion of Solar Radiation.

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying.

Module-2 Solar Energy-Basic Concepts (continued): Measurement of Solar Radiation, Solar Radiation Data, Solar Time, Solar Radiation Geometry, Solar Day Length, Extraterrestrial Radiation on Horizontal Surface, Empirical Equations for Estimating Terrestrial Solar Radiation on Horizontal Surface, Solar Radiation on Inclined Plane Surface. Solar Thermal Systems: Introduction, Solar Collectors, Solar Water Heater, Solar Passive Space Heating and Cooling Systems, Solar Industrial Heating Systems, Solar Refrigeration and Air Conditioning Systems, Solar Cookers.

Teaching Hours : 08



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Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-3 Teaching Hours Solar Photovoltaic Systems: Introduction, Solar Cell Fundamentals, Solar Cell Characteristics, Solar Cell Classification, Solar Cell Technologies, Solar Cell, Module, and Array Construction, Maximizing the Solar PV Output and Load Matching. Maximum Power Point Tracker. Balance of System Components, Solar PV Systems, Solar PV Applications.

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-4 Wind Energy: Introduction, Basic Principles of Wind Energy Conversion, History of Wind Energy, Wind Energy Scenario – World and India. The Nature of the Wind, The Power in the Wind, Forces on the Blades, Wind Energy Conversion, Wind Data and Energy Estimation, Site Selection Considerations Wind energy systems: **Environment and Economics** **Environmental benefits and problems** of wind energy, Economics of wind energy, Factors influence the cost of energy generation, machine parameters, Life cycle cost analysis

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying, L4 – Analysing.

Module-5 Basic Components of a Wind Energy Conversion(WEC) System: Classification of WEC systems, Advantages and Disadvantages of WECS, Types of Wind Machines (Wind Energy Collectors), Analysis of Aerodynamic Forces Acting on the Blade, Performance of Wind- machines, Generating Systems, **Energy Storage**, Applications of Wind Energy, **Environmental Aspects**.

Teaching Hours : 08

Revised Bloom's Taxonomy Level L1 – Remembering, L2 – Understanding, L3 – Applying.



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B.E Mechanical Engineering

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(Effective from the academic year 2018 – 19)												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BSC	18MAT31	Transform calculus, fourier series and Numerical techniques	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18ME32	Mechanics of Materials		3	2	--	03	40	60	100	4
3	PCC	18ME33	Basic Thermodynamics		3	0	--	03	40	60	100	3
4	PCC	18ME34	Material Science		3	0	--	03	40	60	100	3
5	PCC	18ME35A or	Metal cutting and forming		3	0	--	03	40	60	100	3
		18ME35B	Metal Casting and Welding									
6	PCC	18ME36A or	Computer Aided Machine Drawing/		1	4	--	03	40	60	100	3
		18ME36B	Mechanical Measurements and Metrology									
7	PCC	18MEL37A or	Material Testing lab		--	2	2	03	40	60	100	2
		18MEL37B	Mechanical Measurements and Metrology lab									
8	PCC	18MEL38A	Workshop and Machine Shop Practice (Consists of Fitting, and Machining)		--	2	2	03	40	60	100	2
		18MEL38B	Foundry, Forging and Welding lab									
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60		
TOTAL					17	10		24	420	480	900	24
					OR	OR	04	OR	OR	OR		
					19	14		26	360	540		

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.

18KVK39 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.



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(Effective from the academic year 2018 – 19)													
IV SEMESTER													
Sl. No	Course and Course Code	Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits			
				Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks		
				L	T	P							
1	BSC	18MAT41	Mathematics	Mathematics	2	2	--	03	40	60	100	3	
2	PCC	18ME42	Applied Thermodynamics		3	2	--	03	40	60	100	4	
3	PCC	18ME43	Fluid Mechanics		3	0	--	03	40	60	100	3	
4	PCC	18ME44	Kinematics of Machines		3	0	--	03	40	60	100	3	
5	PCC	18ME45A	Metal cutting and forming		3	0	--	03	40	60	100	3	
		18ME45B	Metal Casting and Welding										
6	PCC	18ME46A or	Computer Aided Machine Drawing/		1	4	--	03	40	60	100	3	
		18ME46B	Mechanical Measurements and Metrology		3	0							
7	PCC	18MEL47A or	Material Testing lab		--	2	2	03	40	60	100	2	
		18MEL47B	Mechanical Measurements and Metrology lab										
8	PCC	18MEL48A	Workshop and Machine Shop Practice (Consists of Fitting, and Machining)		--	2	2	03	40	60	100	2	
		18MEL48B	Foundry, Forging and Welding lab										
9	HSMC	18KVK49/49	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1	
		18KAK49/49	Aadalitha Kannada (Kannada for Administration)										
		OR											
		18CPH49	Constitution of India, Professional Ethics and Cyber Law										1	--	--	02	40	60
Examination is by objective type questions													
TOTAL					17	10		04	24	420	480		
					OR	OR		OR	OR	OR	OR	900	24
					19	14			26	360	540		

18KVK39 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.



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(Effective from the academic year 2018 – 19)												
V SEMESTER												
SL No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	PCC	18ME51	Management and Economics		2	2	..	03	40	60	100	3
2	PCC	18ME52	Design of Machine Elements I		3	2	..	03	40	60	100	4
3	PCC	18ME53	Dynamics of Machines		3	2	..	03	40	60	100	4
4	PCC	18ME54	Turbo Machines		3	..	..	03	40	60	100	3
5	PCC	18ME55	Fluid Power Engineering		3	..	..	03	40	60	100	3
6	PCC	18ME56	Operations Management		3	..	..	03	40	60	100	3
7	PCC	18MEL57	Fluid Mechanics/Machines lab		..	2	2	03	40	60	100	2
8	PCC	18MEL58	Energy Conversion Lab		..	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental								
				[Paper setting: Civil Engineering Board]	1	..	..	02	40	60	100	1
TOTAL					18	10	04	26	360	540	900	25
Note: PCC: Professional Core, HSMC: Humanity and Social Science.												
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.												



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B. E. MECHANICAL ENGINEERING			
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)			
SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> • know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens • Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. • Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution: The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive: Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions: Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions: Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			
Professional / Engineering Ethics: Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and Liability in Engineering			
Module-5			
Internet Laws, Cyber Crimes and Cyber Laws: Internet and Need for Cyber Laws, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.			



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B. E. COMMON TO ALL PROGRAMMES			
Choice Based Credit System (CBCS) and Outcome Based			
Education (OBE) SEMESTER – V			
ENVIRONMENTAL			
STUDIES			
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
<p>Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake.</p> <p>Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.</p>			
Module - 2			
<p>Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind.</p> <p>Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.</p>			
Module - 3			
<p>Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and AirPollution.</p>			



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Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.

Module - 4

Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, **Environmental Toxicology**.

Module - 5

Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications):

G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs.

Field work: Visit to an **Environmental Engineering** Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.

Course Outcomes: At the end of the course, students will be able to:

- CO1: Understand the principles of ecology and **environmental issues** that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate **ecology** knowledge of a complex relationship between biotic and abiotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.



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Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Textbook/s



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B.E. Mechanical Engineering

V SEMESTER

Sl. No	Subject Code	Title	Teaching Hours /Week			Examination			Credits	
			Lecture	Tutorial	Practical	Duration (Hours)	SEE Marks	CIE Marks		Total Marks
1	17ME51	Management and Engineering Economics	3	2	0	03	60	40	100	4
2	17ME52	Dynamics of Machinery	3	2	0	03	60	40	100	4
3	17ME53	Turbo Machines	3	2	0	03	60	40	100	4
4	17ME54	Design of Machine Elements - I	3	2	0	03	60	40	100	4
5	17ME55X	Professional Elective-I	3	0	0	03	60	40	100	3
6	17ME56X	Open Elective-I	3	0	0	03	60	40	100	3
7	17MEL57	Fluid Mechanics & Machinery Lab	1	0	2	03	60	40	100	2
8	17MEL58	Energy Lab	1	0	2	03	60	40	100	2
TOTAL			20	08	04		480	320	60	40

Professional Elective-I		Open Elective-I	
17ME551	Refrigeration and Air-conditioning	17ME561	Optimization Techniques
17ME552	Theory of Elasticity	17ME562	Energy and Environment
17ME553	Human Resource Management	17ME563	Automation and Robotics
17ME554	Non Traditional Machining	17ME564	Project Management

1. Core subject: This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

2. Professional Elective: Elective relevant to chosen specialization/ branch

3. Open Elective: Electives from other technical and/or emerging subject areas.



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B.E Biotechnology

2

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Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: BIOTECHNOLOGY												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BSC	18BT31	Biostatistics	Mathematics	3	1	--	03	40	60	100	3
2	PCC	18BT32	Microbiology	Biotech	4	0	--	03	40	60	100	4
3	PCC	18BT33	Unit Operations	Chemical/Biotech	3	1	--	03	40	60	100	3
4	PCC	18BT34	Introduction to Biomolecules	Biotech	3	1	--	03	40	60	100	3
5	PCC	18BT35	Cell Biology and Genetics	Biotech	3	0	--	03	40	60	100	3
6	PCC	18BT36	Python Programming	CSE	3	1	--	03	40	60	100	3
7	PCC	18BTL37	Microbiology Laboratory	Biotech	--	2	2	03	40	60	100	2
8	PCC	18BTL38	Unit Operations Laboratory	Chemical/Biotech	--	2	2	03	40	60	100	2
9	HSMC	18KVK39	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK39	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39	Constitution of India, Professional Ethics and Cyber Law									
TOTAL					19	08	04	24	420	480	900	24
					OR	OR		OR	OR	OR		
					20	10		26	360	540		



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: BIOTECHNOLOGY												
IV SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18BT41	Stoichiometry	Chemical/Biotech	3	1	--	03	40	60	100	3
2	PCC	18BT42	Molecular Biology	Biotech	4	0	--	03	40	60	100	4
3	PCC	18BT43	Immunotechnology	Biotech	3	0	--	03	40	60	100	3
4	PCC	18BT44	Cell Culture Techniques	Biotech	3	0	--	03	40	60	100	3
5	PCC	18BT45	Biochemical Thermodynamics	Chemical/Biotech	3	1	--	03	40	60	100	3
6	PCC	18BT46	Clinical Biochemistry	Biotech	3	0	--	03	40	60	100	3
7	PCC	18BTL7	Biochemistry Laboratory	Biotech	--	2	2	03	40	60	100	2
8	PCC	18BTL8	Immunotechnology Laboratory	Biotech	--	2	2	03	40	60	100	2
9	HSMC	18KVK49	Vyavaharika Kannada (Kannada for communication)/	HSMC OR	--	2	--	--	100	--	100	1
		18KAK49	Aadalitha Kannada (Kannada for Administration)									
		18CPC49	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60		
					Examination is by objective type questions							
TOTAL					19	06	04	24	420	480	900	24
					OR	OR	OR	OR	OR	OR		
					20	08		26	360	540		

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: BIOTECHNOLOGY												
V SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	HSMC	18BT51	Bio-Business and Entrepreneurship	HSMC/Biotech	3	--	--	03	40	60	100	3
2	PCC	18BT52	Chemical Reaction Engineering	Chemical/Biotech	4	1	--	03	40	60	100	4
3	PCC	18BT53	Enzyme Technology & Biotransformation	Biotech	4	--	--	03	40	60	100	4
4	PCC	18BT54	Genomics & Proteomics	Biotech	3	1	--	03	40	60	100	3
5	PCC	18BT55	Bioanalytical Techniques	Biotech	3	--	--	03	40	60	100	3
6	PCC	18BT56	Genetic Engineering & Applications	Biotech	3	--	--	03	40	60	100	3
7	PCC	18BTL57	Biokinetics & Enzyme Technology Laboratory	Chemical/Biotech	--	2	2	03	40	60	100	2
8	PCC	18BTL58	Genetic Engineering and Cell Culture Laboratory	Biotech	--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting: Civil Engineering Board]	1	--	--	02	40	60	100	1
					Examination is by objective type questions							
TOTAL					21	06	04	26	360	540	900	25

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.



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B.E.BIOTECHNOLOGY			
Outcome Based Education (OBE) and Choice Based Credit System			
(CBCS)SEMESTER-III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
(Mandatory Learning Course: Common to All Programmes)			
Course Code	18CPC39/49	CIEMarks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEEMarks	60
Credits	01	ExamHours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> • know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens • Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. • Know about the cyber crimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution:			
The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive:			
Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles			
Module-3			
Elections, Amendments and Emergency Provisions:			
Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments- Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7, 9, 10, 12, 42, 44, 61, 73, 74, 75, 86, and 91, 94, 95, 100, 101, 118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions:			
Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			



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Professional/EngineeringEthics:

Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering. Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and Liability in Engineering

Module-5

Internet Laws, Cyber Crimes and Cyber Laws:

Internet and Need for Cyber Laws, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cyber crimes and enforcement agencies.

Course Outcomes:

On completion of this course, students will be able to,

CO 1: Have constitutional knowledge and legal literacy.

CO 2: Understand Engineering and Professional ethics and responsibilities of Engineers. CO 3:

Understand the the cyber crimes and cyber laws for cyber safety measures.

Question paper pattern for SEE and CIE:

- The SEE question paper will be set for 100 marks and the marks scored by the students will proportionately be reduced to 60. The pattern of the question paper will be objective type (MCQ).
- For the award of 40 CIE marks, refer the University regulations 2018.

Sl. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
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Textbook/s

1	Constitution of India, Professional Ethics and Human Rights	Shubham Singles, Charles E. Haries, and detail	Cengage Learning India	2018
2	Cyber Security and Cyber Laws	Alfred Basta and et al	Cengage Learning India	2018

Reference Books

3	Introduction to the Constitution of India	Durga Das Basu	Prentice-Hall,	2008.
4	Engineering Ethics	M. Govindarajan, S. Natarajan, V. S. Senthikumar	Prentice-Hall,	2004

B.E. BIOTECHNOLOGY

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER-V

BIO-BUSINESS AND ENTREPRENEURSHIP



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CourseCode	18BT51	CIEMarks	40
TeachingHours/Week(L:T:P)	(3:0:0)	SEEMarks	60
Credits	03	ExamHours	03
CourseLearningObjectives:			
<ul style="list-style-type: none"> To learn about the project management, To explore entrepreneurship To understand IP and its implications 			
Module-1			
BIOENTERPREUNERSHIP:			
<p>Introduction to bio-business, from the Indian context, SWOT analysis of bio-business. Ownership, Development of Entrepreneurship; Stages in entrepreneurial process; Role of entrepreneurs in Economic Development; Entrepreneurship in India; Entrepreneurship - its barriers. Small scale industries: Definition; Characteristics; Need and rationale; Objectives; Scope; Market Feasibility Study; Technical Feasibility Study; Financial Feasibility Study & Social Feasibility Study. Global biobusiness and industry future trends.</p>			
Module-2			
ENTREPRENEURSHIP OPPORTUNITY IN AGRIBIOTECHNOLOGY:			
<p>Business opportunity, Essential requirement, marketing, strategies, schemes, challenges and scope-with case study on Plant cell and tissue culture technique, polyhouse culture. Herbal bulk drug production, Nutraceuticals, value added herbal products. Bioethanol production using Agriwaste, Algal source. Integration of system biology for agricultural applications. Biosensor development in Agrimanagement</p>			
Module-3			
ENTREPRENEURSHIP OPPORTUNITY IN INDUSTRIAL BIOTECHNOLOGY:			
<p>Business opportunity, Essential requirement, marketing strategies, schemes, challenges and scope-with case study- Pollution monitoring and Bioremediation for Industrial pollutants, Pesticides, Herbicides etc. Integrated compost production- microbe enriched compost. Bio pesticide/insecticide production. Fermented products-probiotic and prebiotics. Stem cell production, stem cell bank, contract research. Production of monoclonal/polyclonal antibodies, Single cell protein and secondary metabolite production. Contract research in microbial genomics.</p>			
Module-4			
PROJECT MANAGEMENT, INTELLECTUAL PROPERTY, TECHNOLOGY MANAGEMENT AND STARTUP SCHEMES:			
<p>Building Biotech business challenges in Indian context-biotech partners (BICEPS, BIRAC, DBT, Incubation centers. Etc.), operational biotech parks in India. Indian Company act for Biobusiness-schemes and subsidies. Meaning of Project; Project Identification; Project Selection; Project Report; Need and Significance of Report; Contents; Formulation; Guidelines by Planning Commission for Project report; Network Analysis; Errors of Project Report; Project Appraisal. Identification of business opportunities: Market Feasibility Study; Technical Feasibility Study; Financial Feasibility Study & Social Feasibility Study. Patent expiry and Entrepreneurship opportunity, Principles of Technology leasing, licensing and transfer, Startup schemes in Indian government, Business incubation support schemes, Successful start-ups-</p>			



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casestudy.

Module-5

REGULATORYAFFAIRS,BIOETHICS&BIO-SAFETY:

RegulatoryaffairsinBiobusiness-regulatorybodiesandtheirregulations(ex.FDA,EU,DSIR,AYUSH, FSSAI etc.,)

Public education of the process of biotechnology involved in generating new forms of life for informed decision-making. Ethical concerns of biotechnology research and innovation- Interference with nature fear of unknown, unequal distribution of risks. Rational vs. subjective perceptions of risks and benefits, relationship between risk, hazard, exposure and safeguards. Biosafety concerns at the level of individuals, institutions, society, region, country and the world. The Cartagena protocol on biosafety. Biosafety management.

Course Outcomes:

At the end of the course the student will be able to:

- Know the importance of bioethics, biosafety and IPR
- Apply for project proposal
- Plan a project with a work plan, budget and schedule

Question paper pattern:

- The question paper will have ten full questions carrying equal marks.
- Each full question will be for 20 marks.
- There will be two full questions (with a maximum of four sub- questions) from each module.
- Each full question will have sub- question covering all the topics under a module.
- The students will have to answer five full questions, selecting one full question from each module.

SI N o	TitleoftheBook	Name of theAutho r/s	NameofthePublisher	EditionandYear
Textbooks				
1	PrinciplesofManagement	P.C.Tripathi, P.N.Reddy	TataMcGrawHill	FifthEdition,2012
2	EntrepreneurshipDevelopment	S.S.Khanka	S.Chand&Co	2006



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3	Practical Approach to IPR	Rachana Singh Puri	IK Intl. Ltd	2009
4	Bioethics & Biosafety	RRallapalli & Geetha Bali	APH Publication	2007
Reference Books				
1	Bioethics & Biosafety	Sateesh M K	IK Publishers	2008
2	Management Fundamentals - Concepts, Application, Skill Development	Roberts Lusier	Cengage Learning	1996
3	Intellectual Property Rights in the WTO and developing country	Watal Jayashree	Oxford University Press	2001
Weblinks and Video Lectures:				

B.E. IN CIVIL ENGINEERING (CV-2018-19)			
Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER - V			
ENVIRONMENTAL STUDIES			
Course Code	18CIV59	CIEMarks	40
Teaching Hours/ Week (L:T:P)	(1:0:0)	SEEMarks	60
Credits	01	ExamHours	02
Revised Bloom's Taxonomy Levels	L ₁ -Remembering, L ₂ -Understanding.		
Module-1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. 02 Hrs Biodiversity : Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation. 02 Hrs			
Module-2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. 02 Hrs Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading. 02 Hrs			
Module-3			



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Environmental Pollution(Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and Air Pollution. 02 Hrs

Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge. 02 Hrs

Module-4

Global Environmental Concerns(Concept, policies and case-studies): Groundwater depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology. 04 Hrs

Module-5

Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S.

& Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship-NGOs. 03 Hrs

Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant

or Wastewater treatment Plant; ought to be followed by understanding of process and its brief documentation. 01 Hrs

Hrs

Course Outcomes: At the end of the course, students will be able to:

- CO1: Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.

Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.

The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				
1	Environmental Studies	Benny Joseph	Tata Mc Graw- Hill.	2 nd Edition, 2012
2.	Environmental Studies	SM Prakash	Pristine Publishing House, Mangalore	3 rd Edition: 2018



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3	Environmental Studies – From Crisis to Cure	RRajagopalan	Oxford Publisher	2005
Reference Books				
1	Principals of Environmental Science and Engineering	Raman Sivakumar	Cengage Learning, Singapore.	2 nd Edition, 2005
2	Environmental Science – Working with the Earth	G. Tyler Miller Jr.	Thomson Brooks/Cole,	11 th Edition, 2006
3	Text Book of Environmental and Ecology	Pratiba Singh, Anoop Singh & Piyush Malaviya	Acme Learning Pvt. Ltd. New Delhi.	1 st Edition

TITLE OF THE COURSE: REGULATORY AFFAIRS IN BIOTECH INDUSTRY B.E.,

VIII Semester, Biotechnology

[As per Choice Based Credit System (CBCS) scheme]

Course Code	17BT82	CIEMarks	40
Number of Lecture Hours/week	04	SEEMarks	60
Total Number of Hours	50 (10 Hours per Module)	Exam Hours	03

CREDITS – 04

Course objectives: The objective of this course is to educate students about regulatory rules and guidelines that specify parameters of the safety and quality standards in the biotech industry

MODULE – 1

INTRODUCTION:

Validation and Regulatory Affairs in Bio (Pharmaceutical) Manufacturing: An Introduction to FDA Operations & Industry Compliance Regulations, The Fundamentals of Regulatory Compliance with respect to Good Clinical Practice (GCP), Good Manufacturing Practice (GMP) & Good Laboratory Practice (GLP). An Introduction to the Basic Concepts of Process

Validation & how it differs from Qualification (IQ, OQ & PQ) Procedures, A Review of Prospective, Concurrent, Retrospective Validation & Revalidation including the use of Statistical Process Control (SPC) Techniques. ISO 9000 Series & International Harmonization & their effect upon GMP's.



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L1,L2, L3

MODULE –2

VALIDATION:

Validation of Water & Thermal Systems, including HVAC Facilities & Cleaning Validation. Validation of Active Pharmaceutical Ingredients (APIs) & Aseptic Processes. Validation of Non-Sterile Processes (used in the manufacture of Solids, Liquids, & Semisolid Dosage Forms). Overview of method evolution, FDA and ICH guidelines, Development and validation, Basic statistical concepts, Outliers, Specificity: sample preparation, Specificity: separations, Specificity: detectors, Linearity, Accuracy, Precision, Limits of detection (LOD) and quantification (LOQ), Minimum detectable amount (MDA), Sample stability and method robustness, Window diagrams, System suitability, Statistical process control for HPLC, Sustainable validation, Troubleshooting out-of-control systems, Case studies.

L1,L2,L3

MODULE – 3

STANDARDS:

Introduction, ISO 9000 Series of Standards, Management Responsibility, Quality System, Contract Review, Design Control, Document and Data Control, Preservation and Delivery, Control of Quality Records, Internal Quality Audits, Training, Servicing, Statistical Techniques, ISO-9001-2000, Scope, Normative Reference, Terms and Definitions, Quality Management, System, Documents Requirements, Management's Responsibility, Resource Management, Infrastructure, Product Realization, Measurement, Analysis and Improvement, ISO-14001, **Environmental Management Systems.**

L1,L2,L3

MODULE – 4

QUALITY AND IMPLEMENTATION:

Terminology Relating to Quality, Quality Requirement, Customer Satisfaction, Capability; Terms Relating to Mana



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gement, Management System, Quality Management System, Quality Policy,

Quality Objectives, Quality Planning, Quality Control, Quality Assurance, Quality Improvement,

Continual Improvement, Effectiveness, Efficiency, Terms relating to Characteristics, Quality

Characteristics; Terms Relating to Conformity, Non-Conformity, Defect, Preventive Action, Corrective

Action, Correction, Rework, Repair, Scrap, Concession, Deviation Permit, Release; Objective Evidence,

Inspection, Test, Metrological Confirmation. Quality System, Contract Review, Design Control,

Document and Data Control, Purchasing, Control of Customer Supplied Product, Product Identification

and Traceability, Process Control, Inspection and Testing, Final Inspection and Testing, Inspection and

Test Status, Handling, Storage, Packaging, Preservation and Delivery, Control of Quality Records,

Internal Quality Audits, Training, Servicing, Statistical Techniques.

L1, L2, L3

MODULE – 5

QUALITY MANAGEMENT:

The development of regulatory requirements for validation, The V model and Life Cycle model approach

to validation and documentation, Risk Analysis Techniques: Impact Assessment; Failure Mode and

Effects Analysis (FMEA), Validation Master Plans, Commissioning and Qualification, Process Validation,

Routine validation and revalidation, Contamination Control, Risk Management in the Pharmaceutical

Industry, Solid Dose Manufacture Principles and Practices, Liquid and Cream Manufacture Principles

and Practices, Good Laboratory Practices (for Non- Clinical Laboratories), Computer Systems Validation

Principles and Practices, Good Aseptic Practices and Sterile Products, Clinical Trials Quality Assurance

Management, GxP and Quality Auditing Practices, Pharmaceutical Engineering – Facility, Equipment and

Process Design, Fundamentals of Process Analytical Technology, Quality and Continuous Improvement

in the Biotech Industry.

L1, L2, L3

Course outcomes:

After studying this course, students will be able to:

- Outline the importance of the quality and compliance in the biotech industry
- Comprehend the various regulatory guidelines and rules as well as the



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organizations governing the same.

1. **Pharmaceutical Equipment Validation: The Ultimate Qualification Handbook, Phillip**

A. Cloud, Interpharm Press.

2. **Commissioning and Qualification, ISPE Pharmaceutical Engineering Baseline Guides Series.**
3. **ICH guideline Q6B, Freelance Publishing**

TEXT BOOKS

1. **Pharmaceutical Process Validation by Robert Nash and Alfred Wachter, Marcel Dekker.**
2. **Good Manufacturing Practices for Pharmaceuticals: A Plan for Total Quality Control from Manufacturer to Consumer, Sidney J. Willig, Marcel Dekker.**
3. **Validation of Pharmaceutical Processes: Sterile Products, Frederick J. Carlton (Ed.) and James Agalloco (Ed.), Marcel Dekker.**
4. **Validation Standard Operating Procedures: A Step by Step Guide for Achieving Compliance in the Pharmaceutical, Medical Device, and Biotech Industries, Syed Imtiaz Haider, Saint Lucie Press.**
5. **Pharmaceutical Biotechnology by S P Vyas and V K Dixit, CBS Publishers**



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B.E Civil Engineering

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: CIVIL ENGINEERING												
III SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours/Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
				L	T	P						
1	BSC	18MAT31	Transform Calculus, Fourier Series and Numerical Techniques	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CV32	Strength of Materials	Civil Engg.	3	2	--	03	40	60	100	4
3	PCC	18CV33	Fluid Mechanics	Civil Engg.	3	0	--	03	40	60	100	3
4	PCC	18CV34	Building Materials and Construction	Civil Engg.	3	0	--	03	40	60	100	3
5	PCC	18CV35	Basic Surveying	Civil Engg.	3	0	--	03	40	60	100	3
6	PCC	18CV36	Engineering Geology	Geology	3	0	--	03	40	60	100	3
7	PCC	18CVL37	Computer Aided Building Planning & Drawing	Civil Engg.	--	2	2	03	40	60	100	2
8	PCC	18CVL38	Building Materials Testing Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
9	HSMC	18KVK39	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		OR										
		18KAK39	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60		
Examination is by objective type questions												
TOTAL					17	08		24	420	480		
					OR	OR		OR	OR	OR	900	24
					18	10	04	26	360	540		



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Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: CIVIL ENGINEERING												
IV SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	BSC	18MAT41	Complex Analysis, Probability And Statistical Methods	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18CV42	Analysis of Determinate Structures	Civil Engg.	3	2	--	03	40	60	100	4
3	PCC	18CV43	Applied Hydraulics	Civil Engg.	3	0	--	03	40	60	100	3
4	PCC	18CV44	Concrete Technology	Civil Engg.	3	0	--	03	40	60	100	3
5	PCC	18CV45	Advanced Surveying	Civil Engg.	3	0	--	03	40	60	100	3
6	PCC	18CV46	Water Supply & Treatment Engineering	Civil Engg.	3	0	--	03	40	60	100	3
7	PCC	18CVL47	Engineering Geology Laboratory	Geology	--	2	2	03	40	60	100	2
8	PCC	18CVL48	Fluid Mechanics and Hydraulic Machines Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for Communication)/	HSMC	--	2	--	--	100	--	100	1
		OR										
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39/49	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60		
Examination is by objective type questions												
TOTAL					17	08		24	420	480	900	24
					OR	OR	04	OR	OR	OR		
					18	10		26	360	540		

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: CIVIL ENGINEERING												
V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	HSMC	18CV51	Construction Management & Entrepreneurship	Civil Engg.	2	2	--	03	40	60	100	3
2	PCC	18CV52	Analysis of Indeterminate Structures	Civil Engg.	3	2	--	03	40	60	100	4
3	PCC	18CV53	Design of RC Structural Elements	Civil Engg.	3	2	--	03	40	60	100	4
4	PCC	18CV54	Basic Geotechnical Engineering	Civil Engg.	3	--	--	03	40	60	100	3
5	PCC	18CV55	Municipal Wastewater Engineering	Civil Engg.	3	--	--	03	40	60	100	3
6	PCC	18CV56	Highway Engineering	Civil Engg.	3	--	--	03	40	60	100	3
7	PCC	18CVL57	Surveying Practice	Civil Engg.	--	2	2	03	40	60	100	2
8	PCC	18CVL58	Concrete and Highway Materials Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/Environmental								
				[Paper setting Board: Civil Engineering]	1	--	--	02	40	60	100	1
TOTAL					18	10	04	26	360	540	900	25

Note: PCC: Professional Core, HSMC: Humanity and Social Science.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.



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CIVIL ENGINEERING												
Scheme of Teaching and Examination 2018 - 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 - 19)												
VI SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lectures	Tutorials	Practical/Assignments	Duration in hours	OB Marks	SB Marks	Total Marks	
					I	II	III					
1	POC	18CV61	Design of Steel Structural Elements	Civil Engg.	3	2	-	60	40	60	100	4
2	POC	18CV62	Applied Geotechnical Engineering	Civil Engg.	3	2	-	60	40	60	100	4
3	POC	18CV63	Hydrology and Irrigation Engineering	Civil Engg.	3	2	-	60	40	60	100	4
4	PEC	18CV64	Professional Elective -I	Civil Engg.	3	-	-	60	40	60	100	3
5	OEC	18CV65	Open Elective -A	Civil Engg.	3	-	-	60	40	60	100	3
6	POC	18CV66	Software Application Laboratory	Civil Engg.	-	2	2	60	40	60	100	2
7	POC	18CV67	Environmental Engineering Laboratory	Civil Engg.	-	2	2	60	40	60	100	2
8	EP	18CV68	Extensive Survey project	Civil Engg.	-	2	2	60	40	60	100	2
9	Internship	--	Internship	To be carried out during the vacation/s of VI and VII semesters and /or VII and VIII semesters.								
TOTAL					15	12	06	34	120	400	800	24

Note: POC: Professional core, PEC: Professional Elective, OEC: Open Elective, EP: Mini-project.

Professional Elective - I	
Course code under 18CV64	Course Title
18CV64	Matrix Method of Structural Analysis

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18CV62	Solid Waste Management
18CV63	Alternate Building Materials
18CV64	Ground Improvement Techniques
18CV65	Railway, Harbours, Tunneling & Airports
Open Elective -A	
Course code under 18CV65	
18CV61	Remote Sensing & GIS
18CV62	Traffic Engineering
18CV63	Occupational Health & Safety
18CV64	Sustainability Concepts in Civil Engineering
18CV65	Intelligent Transportation Systems
18CV66	Conservation of Natural Resources

Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (Please refer to the list of open electives under 18CV65C).

Selection of an open elective shall not be allowed if,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

Registration to electives shall be de-validated under the guidance of Programme Coordinator/ Advisor/Mentor.

Internship: All the students admitted to III year of BE/B. Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements.

AKTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.



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Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
Programme: CIVIL ENGINEERING												
VII SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours/Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/Drawing	Duration in hours	CBE Marks	SEE Marks	Total Marks	
	L	T	P									
1	PCC	18CV71	Quality Surveying and Contract Management	Civil Engg.	3	--	--	03	40	60	100	3
2	PCC	18CV72	Design of RCC and Steel Structures	Civil Engg.	3	--	--	03	40	60	100	3
3	PEC	18CV73X	Professional Elective - 2	Civil Engg.	3	--	--	03	40	60	100	3
4	PEC	18CV74X	Professional Elective - 3	Civil Engg.	3	--	--	03	40	60	100	3
5	OEC	18CV75X	Open Elective -B	Civil Engg.	3	--	--	03	40	60	100	3
6	PCC	18CVL76	Computer Aided Detailing of Structures	Civil Engg.	--	2	2	03	40	60	100	2
7	PCC	18CVL77	Geotechnical Engineering Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
8	Project	18CVP78	Project Work Phase - 1		--	--	2	--	100	--	100	1
9	Internship	--	Internship									
				(If not completed during the vacation of VI and VII semesters, it shall be carried out during the vacation of VII and VIII semesters.)								
TOTAL					15	04	06	21	300	420	600	20
Note: PCC: Professional core, PEC: Professional Elective.												
Professional Elective - 2												
Course code under 18CV73X		Course Title										
18CV731		Theory of Elasticity										
18CV732		Air Pollution and Control										
18CV733		Pavement Materials & Construction										
18CV734		Ground Water Hydraulics										
18CV735		Masonry Structures										
Professional Electives - 3												
Course code under 18CV74X		Course Title										
18CV741		Earthquake Engineering										
18CV742		Design Concepts of Building Services										
18CV743		Reinforced Earth Structures										

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18CV744	Design of Hydraulic Structures
18CV745	Urban Transport Planning
Open Elective -B	
Course code under 18CV75X	
Course Title	
18CV751	Finite Element Method
18CV752	Numerical Methods and Applications
18CV753	Environmental Protection and Management

Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (Please refer to the list of open electives under



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B. E. MECHANICAL ENGINEERING			
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)			
SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> • know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens • Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. • Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution: The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive: Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions: Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, ,75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences.			
Constitutional special provisions: Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			
Professional / Engineering Ethics: Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the Impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and liability in Engineering			
Module-5			
Internet Laws, Cyber Crimes and Cyber Laws: Internet and Need for Cyber Laws, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the Information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.			



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B. E. COMMON TO ALL PROGRAMMES		B.E IN CIVIL ENGINEERING(CV-2018-19)	
Choice Based Credit System (CBCS) and Outcome Based Education (OBE) SEMESTER – V			
ENVIRONMENTAL STUDIES			
Course Code	18CIV59	CIE Marks	40
Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.			
Module - 3			
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and AirPollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.			
Module - 4			



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Global Environmental Concerns (Concept, policies and case-studies): Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, **Environmental Toxicology**.

Module - 5

Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications):

G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs.

Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.

Course Outcomes: At the end of the course, students will be able to:

- CO1: Understand the principles of ecology and **environmental issues** that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate **ecology** knowledge of a complex relationship between biotic and abiotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.

Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				



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year/2nd semester	Civil Engineering	Conservation of Natural Resources(18CV656)
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CONSERVATION OF NATURAL RESOURCES

Choice Based Credit System (CBCS) and Outcome Based Education (OBE)

SEMESTER – VI

Subject Code 18CV656 CIE Marks 40

Teaching

Hours/Week(L:T:P)

3:0:0 SEE Marks 60

Credits 03 Exam Hours 03

Course learning objectives: This course will enable the students to

- ☐ Learn types of land forms , soil conservation and sustainable land use planning.
- ☐ Apprehend water resources, types, distribution, planning and conservation.
- ☐ Know the atmospheric composition of air, pollution and effects on human beings, animals and plants. Air pollution control.
- ☐ Apprehend basics of biodiversity and ecosystems.

☐

Module -1

Land: Land as a resource, types of lands, conservation of land forms, deforestation, effect of land use changes. Soil health, ecological and economic importance of soil, impact of soil degradation on agriculture and food security, need for soil conservation, sustainable land use planning.

Module -2

Water: Global water resources, Indian water resources, Resources system planning. Water use sectors- domestic, industrial, agriculture. Water deficit and water surplus basins in India, equitable distribution, Inter-basin water transfers, Interlinking of rivers – Himalayan component, peninsular component, issues involved. Ground water, its potential in India, conjunctive use, recharge of ground water. Contamination of ground water, sea water ingress, problems and solutions.

Module -3

Air: Introduction, composition, sources and classification of air pollutants, National Ambient Air quality standards (NAAQS), Air quality index, effects of air pollution on human health. Economic effects of air pollution. Control of air pollution by equipment, smoke and its control. Ozone depletion –impacts, photochemical changes.

Minerals and rocks: Minerals, important rock forming minerals like Quartz, Mica, Feldspar and Amphibole, lithification & metamorphism, weathering: physical, biogeochemical processes, erosion, agents of erosion.



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Module -4

Biodiversity: Introduction, Flora and Fauna, Importance of biodiversity, Economic values-medicinal plants, drugs, fisheries biogeochemical cycling. Threat to biodiversity, natural & anthropogenic disturbance, habitat loss. Conservation of biodiversity, National parks, wild life sanctuaries, zoological gardens, gene banks, pollen culture, ecological restoration, social forestry. **Ecosystem**: Definition, Types: forest, grass land, marine, desert, wetlands, estuarine, lotic, lentic. Abiotic & biotic components of eco system.

Module -5

Global warming: concept, indicators, factors and effects. Global climate change-indicators, health impacts, effect on biodiversity. Introduction to global efforts in conservation of biodiversity.

EIA: Regulations in India, status of EIA in India, list of projects needing **environmental clearance** under EIA notifications. Case study of hydro power/ thermal power projects.

Updated on 29.03.2021 2/2

Course Outcomes(CO):

At the end of the course, students will be able to

1. Apprehend various components of land as a natural resource and land use planning.
2. Know availability and distribution for water **resources** as applied to India.
3. Analyse the components of air as resource and its pollution.
4. Discuss biodiversity & its role in ecosystem functioning.
5. Critically appreciate the **environmental** concerns of today.

Question paper pattern:

1. The question paper will have ten questions, carrying equal marks.
2. There will be two full questions with a maximum four sub questions from each module.

Students shall answer five full questions selecting one full question from each module.

Text Books:

1. Modi, P.N., "Irrigation Water **Resources** and Water Power Engineering". Standard Book House, New Delhi. 10th Edition, 2019.
2. Raghunath, H.M., "Groundwater", 3rd Edition, New Age International Publishers, New Delhi, 2007.
3. Krishnan, M.S., "Geology of India & Burma". CBS publishers, New Delhi, 2017.
4. P.Jaya Rami Reddy, "A Textbook of Hydrology", University Science Press, New Delhi, 2011.
5. M N Rao and H V N Rao, "Air pollution", McGraw Hill Publications, 2017.
6. Krishnamurthy K.V., "An advanced textbook of Biodiversity- Principle & Practices." Oxford and IBH publications, New Delhi. 2004.

Reference Books :



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1. Odum, E.P., "Fundamentals of Ecology", W.B sounders, Philadelphia, USA, 1971
2. Singh J.S, Singh S.P & Gupta, S.R., "Ecology, environment and resource conservation", Anamayapublications, 2006.
3. Edmond A. Mathez & Jason E. Smerdon, "Climate Change: The science of Global warming and our energy future", Columbia University Press, 2009.
4. National Council of Applied Economic Research, "Economic Impact of Interlinking of Rivers Program", Revised Final Report, April 2008.
5. <http://nwda.gov.in/content>.
6. Madhav Gadgil, "Biodiversity and India's degraded lands", Indian Academy of Sciences, Volume 22- No 2/3, <http://www.jstor.org/pss/4314063>

4th semester	year/1st	Civil Engineering	Environmental Project and Management (18CV753)
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B. E. CIVIL ENGINEERING

Choice Based Credit System (CBCS) and Outcome Based Education (OBE)

SEMESTER - VII

ENVIRONMENTAL PROTECTION AND MANAGEMENT

Course Code 18CV753 CIE Marks 40

Teaching Hours/Week(L:T:P) (3:0:0) SEE Marks 60

Credits 03 Exam Hours 03

Course Learning Objectives: This course will enable students to gain knowledge in Environmental protection and Management systems

Module -1

Environmental Management Standards: Unique Characteristics of Environmental Problems – Systems approach to Corporate environmental management - Classification of Environmental Impact Reduction Efforts - Business Charter for Sustainable Production and Consumption – Tools, Business strategy drivers and Barriers - Evolution of Environmental Stewardship. Environmental Management Principles - National policies on environment, abatement of pollution and conservation of resources - Charter on Corporate responsibility for Environmental protection.

Module -2

Environmental Management Objectives: Environmental quality objectives – Rationale of Environmental standards: Concentration and Mass standards, Effluent and stream standards, Emission and ambient standards, Minimum national standards, environmental performance evaluation: Indicators, benchmarking. Pollution control Vs Pollution Prevention - Opportunities and Barriers – Cleaner production and Clean technology, closing the loops, zero discharge technologies.

Module -3

Environmental Management System: EMAS, ISO 14000 - EMS as per ISO 14001– benefits and barriers of EMS – Concept of continual improvement and pollution prevention - environmental policy – initial



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environmental review – **environmental** aspect and impact analysis – legal and other requirements- objectives and targets – **environmental** management programs – structure and responsibility – training awareness and competence- communication – documentation and document control – operational control – monitoring and measurement – management review.

Module -4

Environmental Audit: **Environmental** management system audits as per ISO 19011- – Roles and qualifications of auditors - **Environmental** performance indicators and their evaluation – Non conformance – Corrective and preventive actions -compliance audits – waste audits and waste minimization planning – **Environmental** statement (form V) - Due diligence audit.

Module -5

Applications: Applications of EMS, Waste Audits and Pollution Prevention Control: Textile, Sugar, Pulp & Paper, Electroplating, , Tanning industry. Hazardous Wastes - Classification, characteristics Treatment and Disposal Methods, Transboundary movement, disposal.

Course outcomes: After studying this course, students will be able to:

1. Appreciate the elements of Corporate **Environmental** Management systems complying to international

environmental management system standards.

2. Lead pollution prevention assessment team and implement waste minimization options.

3. Develop, Implement, maintain and Audit **Environmental** Management systems for Organizations.

Question paper pattern:

- The question paper will have ten full questions carrying equal marks.
- Each full question will be for 20 marks.
- There will be two full questions (with a maximum of four sub- questions) from each module.
- Each full question will have sub- question covering all the topics under a module.
- The students will have to answer five full questions, selecting one full question from each module.

Reference Books:

1. Christopher Sheldon and Mark Yoxon, “Installing **Environmental** management Systems – a step by step guide” Earthscan Publications Ltd, London, 1999.

2. ISO 14001/14004: **Environmental** management systems – Requirements and Guidelines – International Organisation for Standardisation, 2004

3. ISO 19011: 2002, “Guidelines for quality and/or **Environmental** Management System auditing, Bureau of Indian Standards, New Delhi, 2002

4. Paul L Bishop „Pollution Prevention: Fundamentals and Practice, McGraw- Hill International, Boston, 2000.

5. **Environmental** Management Systems: An Implementation Guide for Small and Medium-Sized Organizations, Second Edition, NSF International, Ann Arbor, Michigan, January 2001.



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B.E Automobile Engineering

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Scheme of Teaching and Examination 2018 – 19													
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)													
(Effective from the academic year 2018 – 19)													
III SEMESTER													
Sl. No	Course and Course Code	Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits		
				Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks			
				L	T	P							
1	BSC 18MAT31	Transform calculus, fourier series and Numerical techniques	Mathematics	2	2	--	03	40	60	100	3		
2	PCC 18AU32	Engineering Thermodynamics	Automobile Engg.	3	2	--	03	40	60	100	4		
3	PCC 18AU33	Material Science and Metallurgy	Automobile Engg.	3	0	--	03	40	60	100	3		
4	PCC 18AU34	Mechanics of Materials	Automobile Engg.	3	0	--	03	40	60	100	3		
5	PCC 18AU35	Mechanical Measurement and Metrology	Automobile Engg.	3	0	--	03	40	60	100	3		
6	PCC 18AU36	Manufacturing Process - I	Automobile Engg.	3	0	--	03	40	60	100	3		
7	PCC 18AUL37	Metallography and Material Testing Laboratory	Automobile Engg.	--	2	2	03	40	60	100	2		
8	PCC 18AUL38	Foundry and Forging Laboratory	Automobile Engg.	--	2	2	03	40	60	100	2		
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1	
		18KAK39/49	Aadaliitha Kannada (Kannada for Administration)		--	2	--	--	100	--			
		OR											
		18CPC39/49	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60			
Examination is by objective type questions													
TOTAL				17	08	04	24	420	480	900	24		
				OR	OR	OR	OR	OR	OR	OR			
				18	10		26	360	540				



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Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
IVSEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BSC	18MAT41	Complex analysis, probability and statistical methods	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18AU42	Fluid Mechanics	Automobile Engg.	3	2	--	03	40	60	100	4
3	PCC	18AU43	Kinematics of Machines	Automobile Engg.	3	0	--	03	40	60	100	3
4	PCC	18AU44	Automotive Engines	Automobile Engg.	3	0	--	03	40	60	100	3
5	PCC	18AU45	Manufacturing Process -II	Automobile Engg.	3	0	0	03	40	60	100	3
6	PCC	18AU46	Computer Aided Machine Drawing	Automobile Engg.	1	0	4	03	40	60	100	3
7	PCC	18AUL47	Mechanical Measurement and Metrology Lab	Automobile Engg.	--	2	2	03	40	60	100	2
8	PCC	18AUL48	Machine Shop	Automobile Engg.	--	2	2	03	40	60	100	2
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK39/49	Aadaltha Kannada (Kannada for Administration)									
		OR										
		18CPC39/49	Constitution of India, Professional Ethics and Cyber Law									
TOTAL					14	10	08	Examination is by objective type questions			900	24
					15	12	08	24	420	480		
								OR	OR	OR		
								15	360	540		



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Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	PCC	18AU51	Management and Entrepreneurship	Automobile Engg.	2	2	--	03	40	60	100	3
2	PCC	18AU52	Dynamics of Machines	Automobile Engg.	3	2	--	03	40	60	100	4
3	PCC	18AU53	Design of Machine Elements - I	Automobile Engg.	3	2	--	03	40	60	100	4
4	PCC	18AU54	Automotive Fuels and Combustion	Automobile Engg.	3	--	--	03	40	60	100	3
5	PCC	18AU55	Automotive Transmission	Automobile Engg.	3	--	--	03	40	60	100	3
6	PCC	18AU56	Hydraulics and Pneumatics	Automobile Engg.	3	--	--	03	40	60	100	3
7	PCC	18AUL57	Automotive Engine Components Lab	Automobile Engg.	--	2	2	03	40	60	100	2
8	PCC	18AUL58	Fluid Mechanics and Fuel Testing Lab.	Automobile Engg.	--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting: Civil Engineering Board]	1	--	--	02	40	60	100	1
TOTAL					18	10	04	26	360	540	900	25
Note: PCC:Professional Core, HSMC: Humanity and Social Science.												
AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.												



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B. E. COMMON TO ALL PROGRAMMES			
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)			
SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution: The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive: Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions: Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, 75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences. Constitutional special provisions: Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			
Professional / Engineering Ethics: Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and Liability in Engineering			
Module-5			
Internet Laws, Cyber Crimes and Cyber Laws: Internet and Need for Cyber Laws, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.			
Course Outcomes: On completion of this course, students will be able to,			
<ul style="list-style-type: none"> CO1: Have constitutional knowledge and legal literacy. CO2: Understand Engineering and Professional ethics and responsibilities of Engineers. CO3: Understand the the cybercrimes and cyber laws for cyber safety measures. 			

B. E. COMMON TO ALL PROGRAMMES			
Choice Based Credit System (CBCS) and Outcome Based			
Education (OBE) SEMESTER – V			
ENVIRONMENTAL			
STUDIES			
Course Code	18CIV59	CIE Marks	40



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Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.			
Module - 3			
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and AirPollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.			
Module - 4			
Global Environmental Concerns (Concept, policies and case-studies):Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.			
Module - 5			
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.			



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Course Outcomes: At the end of the course, students will be able to:

- CO1: Understand the principles of ecology and **environmental issues** that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate **ecology** knowledge of a complex relationship between biotic and abiotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.

Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook/s				



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B.E Mechatronics

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI													
B.E. In MECHATRONICS													
Scheme of Teaching and Examination 2018 – 19													
Outcome Based Education(OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)													
III SEMESTER													
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits	
					Theory Lecture L	Tutorial T	Practical/ Drawing P	Duration in hours	CIE Marks	SEE Marks	Total Marks		
1	BSC	18MAT31	Transform calculus, Fourier series and Numerical techniques	Mathematics	2	2	--	03	40	60	100	3	
2	PCC	18MT 32	Material science and Technology		3	0	--	03	40	60	100	3	
3	PCC	18 MT 33	Mechanics of materials		3	2	--	03	40	60	100	4	
4	PCC	18 MT 34	Control Systems		3	2	--	03	40	60	100	3	
5	PCC	18 MT 35	Analog and Digital Electronics		3	0	--	03	40	60	100	3	
6	PCC	18 MT 36	Computer Organization		3	0	--	03	40	60	100	3	
7	PCC	18 MT L37	Machine shop and material Testing lab		--	2	2	03	40	60	100	2	
8	PCC	18 MT L38	Analog and digital electronics lab		--	2	2	03	40	60	100	2	
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for communication)	HSMC	--	2	--	--	100	--	100	1	
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)										
		OR											
		18CPC39/49	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60			
					Examination is by objective type questions								
					TOTAL	17	10		24	420	480		
					OR	18	12		26	360	540	900	24



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Scheme of Teaching and Examination 2018 – 19												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
Effective from the academic year 2018 – 19)												
IV SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week				Examination			Credits
					Theory Lecture	Tutorial	Practical	Drawing / Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BSC	18MAT41	Complex analysis, probability and statistical methods	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18MT42	Fluid mechanics and machines		3	2	--	03	40	60	100	4
3	PCC	18 MT 43	Microcontroller		3	2	--	03	40	60	100	3
4	PCC	18 MT 44	Manufacturing technology		3	0	--	03	40	60	100	3
5	PCC	18 MT 45	Theory of Machines		3	2	--	03	40	60	100	3
6	PCC	18 MT 46	Instrumentation and measurements		3	0	--	03	40	60	100	3
7	PCC	18 MT L47	FM and pneumatic - Laboratory		--	2	2	03	40	60	100	2
8	PCC	18 MT L48	Microcontroller – Laboratory(BV)		--	2	2	03	40	60	100	2
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for communication)	HSMC	--	2	--	--	100	--	100	1
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPC39/49	Constitution of India, Professional Ethics and Cyber Law									
TOTAL					17	12	04	24	420	480	900	24
					OR	OR	OR	OR	OR			
					18	14		26	360	540		



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Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
V SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination			Credits	
					Theory Lectur	Tutorial	Practica / Drawin Duration in hours	CIE Marks	SEE Marks	Total Marks		
												L	T	P
1	HSMC	18MT51	Technological Innovation Management And Entrepreneurship		3	0	--	03	40	60	100	3
2	PCC	18 MT52	Design and analysis of Machine Elements		3	2	--	03	40	60	100	4
3	PCC	18 MT53	Virtual Instrumentation		3	2	--	03	40	60	100	4
4	PCC	18 MT54	Hydraulics and Pneumatics		3	--	--	03	40	60	100	3
5	PCC	18 MT55	Micro and Smart Systems Technology		3	--	--	03	40	60	100	3
6	PCC	18 MT56	Wireless Networks & Communication		3	--	--	03	40	60	100	3
7	PCC	18 MTL57	Virtual Instrumentation-Laboratory		--	2	2	03	40	60	100	2
8	PCC	18 MTL58	MSST -Laboratory		--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting: Civil Engineering Board]	1	--	--	02	40	60	100	1
TOTAL					19	08	04	26	360	540	900	25



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B. E. COMMON TO ALL PROGRAMMES			
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)			
SEMESTER - III			
CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND CYBER LAW (CPC)			
Course Code	18CPC39/49	CIE Marks	40
Teaching Hours/Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Course Learning Objectives: To			
<ul style="list-style-type: none"> ▪ know the fundamental political codes, structure, procedures, powers, and duties of Indian government institutions, fundamental rights, directive principles, and the duties of citizens ▪ Understand engineering ethics and their responsibilities; identify their individual roles and ethical responsibilities towards society. ▪ Know about the cybercrimes and cyber laws for cyber safety measures. 			
Module-1			
Introduction to Indian Constitution: The Necessity of the Constitution, The Societies before and after the Constitution adoption. Introduction to the Indian constitution, The Making of the Constitution, The Role of the Constituent Assembly - Preamble and Salient features of the Constitution of India. Fundamental Rights and its Restriction and limitations in different Complex Situations. Directive Principles of State Policy (DPSP) and its present relevance in our society with examples. Fundamental Duties and its Scope and significance in Nation building.			
Module-2			
Union Executive and State Executive: Parliamentary System, Federal System, Centre-State Relations. Union Executive – President, Prime Minister, Union Cabinet, Parliament - LS and RS, Parliamentary Committees, Important Parliamentary Terminologies. Supreme Court of India, Judicial Reviews and Judicial Activism. State Executives – Governor, Chief Minister, State Cabinet, State Legislature, High Court and Subordinate Courts, Special Provisions (Articles 370,371,371J) for some States.			
Module-3			
Elections, Amendments and Emergency Provisions: Elections, Electoral Process, and Election Commission of India, Election Laws. Amendments - Methods in Constitutional Amendments (How and Why) and Important Constitutional Amendments. Amendments – 7,9,10,12,42,44, 61, 73,74, 75, 86, and 91,94,95,100,101,118 and some important Case Studies. Emergency Provisions, types of Emergencies and its consequences. Constitutional special provisions: Special Provisions for SC and ST, OBC, Women, Children and Backward Classes.			
Module-4			
Professional / Engineering Ethics: Scope & Aims of Engineering & Professional Ethics - Business Ethics, Corporate Ethics, Personal Ethics. Engineering and Professionalism, Positive and Negative Faces of Engineering Ethics, Code of Ethics as defined in the website of Institution of Engineers (India): Profession, Professionalism, and Professional Responsibility. Clash of Ethics, Conflicts of Interest. Responsibilities in Engineering Responsibilities in Engineering and Engineering Standards, the impediments to Responsibility. Trust and Reliability in Engineering, IPRs (Intellectual Property Rights), Risks, Safety and Liability in Engineering			
Module-5			
Internet Laws, Cyber Crimes and Cyber Laws: Internet and Need for Cyber Laws, Modes of Regulation of Internet, Types of cyber terror capability, Net neutrality, Types of Cyber Crimes, India and cyber law, Cyber Crimes and the information Technology Act 2000, Internet Censorship. Cybercrimes and enforcement agencies.			
Course Outcomes: On completion of this course, students will be able to,			
<ul style="list-style-type: none"> ▪ CO1: Have constitutional knowledge and legal literacy. ▪ CO2: Understand Engineering and Professional ethics and responsibilities of Engineers. ▪ CO3: Understand the the cybercrimes and cyber laws for cyber safety measures. 			

B. E. COMMON TO ALL PROGRAMMES			
Choice Based Credit System (CBCS) and Outcome Based			
Education (OBE) SEMESTER – V			
ENVIRONMENTAL			
STUDIES			
Course Code	18CIV59	CIE Marks	40



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Teaching Hours / Week (L:T:P)	(1:0:0)	SEE Marks	60
Credits	01	Exam Hours	02
Module - 1			
Ecosystems (Structure and Function): Forest, Desert, Wetlands, Riverine, Oceanic and Lake. Biodiversity: Types, Value; Hot-spots; Threats and Conservation of biodiversity, Forest Wealth, and Deforestation.			
Module - 2			
Advances in Energy Systems (Merits, Demerits, Global Status and Applications): Hydrogen, Solar, OTEC, Tidal and Wind. Natural Resource Management (Concept and case-studies): Disaster Management, Sustainable Mining, Cloud Seeding, and Carbon Trading.			
Module - 3			
Environmental Pollution (Sources, Impacts, Corrective and Preventive measures, Relevant Environmental Acts, Case-studies): Surface and Ground Water Pollution; Noise pollution; Soil Pollution and AirPollution. Waste Management & Public Health Aspects: Bio-medical Wastes; Solid waste; Hazardous wastes; E-wastes; Industrial and Municipal Sludge.			
Module - 4			
Global Environmental Concerns (Concept, policies and case-studies):Ground water depletion/recharging, Climate Change; Acid Rain; Ozone Depletion; Radon and Fluoride problem in drinking water; Resettlement and rehabilitation of people, Environmental Toxicology.			
Module - 5			
Latest Developments in Environmental Pollution Mitigation Tools (Concept and Applications): G.I.S. & Remote Sensing, Environment Impact Assessment, Environmental Management Systems, ISO14001; Environmental Stewardship- NGOs. Field work: Visit to an Environmental Engineering Laboratory or Green Building or Water Treatment Plant or Waste water treatment Plant; ought to be Followed by understanding of process and its brief documentation.			



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Course Outcomes: At the end of the course, students will be able to:

- CO1: Understand the principles of ecology and **environmental issues** that apply to air, land, and water issues on a global scale,
- CO2: Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
- CO3: Demonstrate **ecology** knowledge of a complex relationship between biotic and abiotic components.
- CO4: Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.

Question paper pattern:

- The Question paper will have 100 objective questions.
- Each question will be for 01 marks
- Student will have to answer all the questions in an OMR Sheet.
- The Duration of Exam will be 2 hours.

Sl.No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
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Textbook/s



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Curriculum Highlighting Cross Cutting Issues - PG

MBA

SCHEME OF TEACHING AND EXAMINATION

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examinations – 2020 - 21										
MASTER OF BUSINESS ADMINISTRATION										
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)										
I SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical component	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	20MBA11	Management & Organizational Behavior	03	02	03	40	60	100	4
2	PCC	20MBA12	Managerial Economics	03	02	03	40	60	100	4
3	PCC	20MBA13	Accounting for Managers	03	02	03	40	60	100	4
4	PCC	20MBA14	Business Statistics	03	02	03	40	60	100	4
5	PCC	20MBA15	Marketing Management	03	02	03	40	60	100	4
6	PCC	20MBA16	Managerial Communication	03	02	03	40	60	100	4
TOTAL				18	12	18	240	360	600	24

Note:
PCC: Professional Core Course

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examinations – 2020 - 21											
MASTER OF BUSINESS ADMINISTRATION											
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)											
III SEMESTER (Core Courses and Dual Specialisation)											
Sl. No	Course	Course Code			Teaching Hours /Week		Examination				Credits
		Marketing & Finance	Finance & Human Resource	Human Resource & Marketing	Theory	Practical Component	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	20MBA301*	20MBA301*	20MBA301*	03	02	03	40	60	100	4
2	PCC	20MBA302*	20MBA302*	20MBA302*	03	02	03	40	60	100	4
3	PEC	20MBAMM303	20MBAFM303	20MBAHR303	03	02	03	40	60	100	4
4	PEC	20MBAMM304	20MBAFM304	20MBAHR304	03	02	03	40	60	100	4
5	PEC	20MBAFM303	20MBAHR303	20MBAMM303	03	02	03	40	60	100	4
6	PEC	20MBAFM304	20MBAHR304	20MBAMM304	03	02	03	40	60	100	4
7	PCC	20MBA IN 307	20MBA IN 307	20MBA IN 307	--	08	--	40	60	100	4
TOTAL					18	20	18	280	420	700	28

Note:



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MANAGEMENT & ORGANIZATIONAL BEHAVIOUR

Course Code	20MBA11	CIE Marks	40
Teaching Hours/Week (L:T:P)	3:0:2	SEE Marks	60
Credits	04	Exam Hours	03

Course Objectives

1. The student will be able to recite the theories and models of Management and Organisational Behavior.
2. The student will be able to apply and solve the workplace problems.
3. The student will be able to classify in differentiating between the best methods to solve the problem.
4. The student will be able to compare the appropriate framework for solving the problems at the workplace
5. The student will be able to design model in dealing with the problems in the organisation.

Module-1 Introduction to Management 9 hours

Management -Introduction, Meaning, Nature, Objectives, Importance, Difference between Administration and Management, Levels of Management, Types of Managers, Managerial Skills, Managerial Competencies, Scope of Management, Functions of Management, Evolution of Management Thought, Fayol's fourteen principles of Management, Recent Trends in Management.

Module -2 Functions of Management 10 hours

Planning- Definition, Features, Nature, Importance, Types, Steps in Planning, Planning Tools and Techniques, Essentials of a Good Plan. **Organisation**-Definitions, Importance, Principles, Types of Organisation Structures, Span of Control, Centralisation and Decentralisation of Authority. **Directing**-Definitions, Importance, Elements of Directing, Principles of Directing, Characteristics of Directing; **Controlling**-Definitions, Need of Controlling, Characteristics of Control, Steps in the Controlling Process, Resistance to Control, Design of Effective Control System, Types of Control, Control Techniques. **Decision-making**- Concepts, Types, Models, Difficulties in Decision-making, Decision-making for Organisational Effectiveness, Decision-making Styles.

Module -3 Organisational Behaviour 10 hours

Organisational Behaviour: Introduction, Definitions, Nature, Goals, Importance, Approaches to Organisational Behaviour, Models. **Attitude**- Meaning, Definition, Types, Components, Attitudes and Behaviour, Changing Attitudes in the Workplace; **Perception**-Perception, Perceptual Process, Factors Influencing Perception, Perception and Decision-making; **Personality**-Definitions, Factors Influencing Personality, Big Five Personality Traits, Myers-Briggs Type Indicator (MBTI), Personality Tools and Tests; **Motivation**-Definitions, Process of Motivation (Cycle of Motivation), Nature, Importance, Types, Theories.

Module -4 Managing Human at Work 7 hours

Group Dynamics- Meaning of Group, Group Characteristics, Classification of Groups, Models of Group Development, Meaning of Group Dynamics, Group Behaviour, Impact of Group on Individual's Behaviour,



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Impact of External Factors on **Group Behaviour**. **Teamwork**- Nature of Teams, Team Characteristics, Teams Versus Groups, Teamwork, Processes of Teamwork, Types of Teams, Reasons for Team Failure, Creating Effective Teams.

Module-5 Organizational Power, Politics and Culture 7 hours

Power and Politics- Nature of Power and Politics, **Early Voices**, Questioning Power and Authority, Sources of Power for Individuals, Managing Organisational Politics. **Culture**- Definitions of Organisational Culture, Strong Versus Weak Culture, Characteristics, Types, Levels, Dimensions, Creating Organisational Culture, Changing Organisational Culture.

Module - 6 Change and Stress Management 7 hours

Change- Nature, Characteristics, Process, Forces Responsible for Change in Organizations, Resistance to Change, Managing Resistance to Change. **Stress Management**-Definitions, Understanding Stress, Relation between Stress and Performance, Level, Signs and Symptoms of Stress, Types of Stress, Causes of Stress, Managing Stress.

Course Outcomes:

1. Gain practical experience in the field of Management and Organization Behaviour
2. Acquire the conceptual knowledge of Management, various functions of Management and theories in

Organizational Behaviour.

3. Apply managerial and behaviour knowledge in real world situations.

4. Develop a greater understanding about Management and Behavioural aspects to analyse the concepts

related to individual behavior, attitude, perception and personality.

5. Understand and demonstrate their exposure on recent trends in management.

ORGANISATIONAL CHANGE AND DEVELOPMENT

Course Code	20MBAHR404	CIE Marks	40
Teaching Hours/Week (L:T:P)	3:0:0	SEE Marks	60
Credits	03	Exam Hours	03

Course Objectives

1. The student will be able to describe and Identify the application of various OC/D framework
2. The student will be able to describe and explain in her/his own words, the relevance and importance of various OC/D intervention to be adopted in the Organisation



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3. The student will be able to apply and improve the workplace effectiveness through various OC/D

Intervention

4. The student will be able to classify and categorise different OC/D practices and intervention followed in the Organisation

5. The student will be able to create and reconstruct OC/D intervention and process required to manage the Organisation

6. The student will be able to appraise and judge the practical applicability of various OC/D intervention, process and practices to be followed in the Organisation

Module-1 Changing Organisations 5 hours

Nature of 21st Century Organisation, Defining Organisational Change, The Roots of Organisation Change, **Environmental Forces**, Driving Change Today, The Implications of Worldwide Trends for Change Management, Four Types of Organisational Change, Planned Changes and Intended Results, Organisation Change Roles, Change Initiators, Change Implementers, Change Facilitators, Change Recipients, The Requirements for Becoming a Successful Change Leader, Application of Lewin's Model of Change, OD Practitioners.

Module -2 Building and Energising the Need for Change 7 hours

Organisations as Systems, Levels and Characteristics of Organisational Change, Models of Organisational Change, Systems **Theory and Social Construction Approaches**, Developing a Knowledge for the Need for Change, Seek Out and Make Sense of Internal - External Data, The Organisations' Readiness for Change, Creating Awareness of the Need for Change, Factors That Block People From Recognising the Need for Change, Creating a Powerful Vision for Change, The Difference Between an Organisational Vision and a Change Vision.

Module -3 Measuring Change: Designing Effective Control Systems 7 hours

Using Control Processes to Facilitate Change, Selecting and Deploying Measures, Use Measures that Lead to Challenging but Achievable Goals, Use Measures and Controls that are Perceived as Fair and Appropriate, Ensure Accurate Data, Control Systems and Change Management, Controls During Design and Early Stages of the Change Project, Measurement Tools to use in Change Process, Strategy Maps, The Balanced Scorecard, Risk Exposure Calculator, Organisational Change Agent, Orienting Yourself to Organisation Change, Data Gathering, Diagnosis and Feedback.

Module -4 Models of Change 7 hours

Kurt Lewin's Three-step Model (1950-1952), Six-box Model of Marvin Weisbord, The McKinsey 7-S Model, Huse's Model of Planned Organizational Change, Action Research Model, David Nadler and Michael Tushman Model, Porras and Silvers Model (1991), The Burke-Litwin Causal Model, John Kotter's Eight-step Theory, Organizational Intelligence Model (2004), Managing Change with ADKAR Model, Integrated Model of Change, Comparison and Critical Analysis of Change Models Plan the Work, Selecting the Correct Path, Engage Others in Action Planning, **Working the Plan Ethically and Adaptively**, Developing a Communication Plan, Key Principles



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in Communicating for Change, Transition Management. Ensure Alignment in Your Action Planning, Action Planning Tools: 1) To-Do Lists; 2) Responsibility Charting; 3) Contingency Planning; 4) Surveys and Survey Feedback; 5) Project Planning and Critical Path Methods; 6) Force Field and Stakeholder Analysis; 7) Leverage Analysis and 8) Other Change-Management Tools.

Module -5 Organisation Development(OD) 7 hours

Concept of O D, History of O D, OD in India, OD Activities, **Values, Beliefs and Assumptions of OD**, Laboratory Training and T-Groups Action Research and Survey Feedback, Employee Involvement, Organisational Culture, Reengineering Organisational Learning, Organisational Effectiveness and Employee Engagement, Defining Values, Values Important to the OD Practitioner, Core Values of O D, Changes to OD

Consulting, Consulting Model, OD Practitioners, The Organisation Development Consulting Profession, The OD Consulting Process and Action Research, Data Gathering - Data Gathering Methods and Process, Ethical Issues With Data Gathering, Diagnosis and Feedback, assessment, **Ethical Issues With Diagnosis and Giving Feedback**, OD Intervention-Team Interventions, Quality, Performance Management, Communication in OD process, Coaching, Mentoring, 360 Feedback, Career Planning and Development. Merger and Acquisition, **Organisational Health**, OD Association in India.

Course Outcomes:

1. Gain conceptual insight of change management models, OD processes and interventions.
2. Develop the understanding of OD to apply OD aspects in private and public sectors in India.
3. Analyse the tools and techniques available to implement changes in the organization environment
4. Handle the OD interventions by analysing the role of OD consultant.

Practical Components:

- ☑ A visit to Organisation and interact with OD and Change Manager and list out the roles played by OD/C manager.
- ☑ Meet and Interact with OD and Change Manager and ask- 10 questions related to Change and Development issues
- ☑ Meet OD and Change Manager and list out various OC/D Intervention practised and how they impact the Organisational Growth
- ☑ Visit Organisation and Interact with Employees in the organisation and discuss Culture Impact on Change process and how it can be managed.

Textbooks

Sl No	Title of the book	Name of the Author/s	Publisher Name	Edition and year
1	Change Management and Organisational Development	Ratan Raina	SAGE Texts	2018
2	Organisational Change- An Action-Oriented Toolkit	Gene Deszca, Cynthia Ingols, Tupper F. Cawsey	SAGE Publications, Inc	2019



**CHILDREN'S EDUCATION SOCIETY (Regd.)
THE OXFORD COLLEGE OF ENGINEERING**

(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi.

Approved by A.I.C.T.E. New Delhi.

Recognised by UGC Under Section 2(f)

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MCA

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Under Outcome Based Education (OBE) And Choice Based Credit System (CBCS) Scheme
Scheme of Teaching and Examination – 2018-19
Master of Computer Applications

IV SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week			Examination				Credits
				Theory (L)	Tutorial (T)	Practical (P)	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	18MCA41	Advanced Java Programming	MCA	03	-	-	03	60	40	100	03
2	18MCA42	Advanced Web Programming	MCA	03	-	-	03	60	40	100	03
3	18MCA43	Object Oriented Modeling and Design	MCA	03	-	-	03	60	40	100	03
4	18MCA44X	Elective II	MCA	03	-	-	03	60	40	100	03
5	18MCA45X	Elective III	MCA	03	-	-	03	60	40	100	03
6	18MCA46	Professional Communication & Report Writing	MCA	02	-	-	03	60	40	100	02
7	18MCA47	Advanced Java Programming Lab	MCA	-	01	03	03	60	40	100	02
8	18MCA48	Advanced Web Programming Lab	MCA	-	01	03	03	60	40	100	02
9	18MCA49	Object Oriented Modeling and Design Lab	MCA	-	01	03	03	60	40	100	02
TOTAL				Theory: 17hours Practical: 09 hours Tutorial/Instruction: 03hours				540	360	900	23

Professional Communication & Report Writing

[As per Choice Based Credit System (CBCS) scheme]

SEMESTER – IV

Subject Code: 18MCA46

CIE Marks: 40 SEE Marks: 60 SEE Hours: 03

Number of Lecture Hours/Week: 03 Hours Theory & 01 Hour Tutorial/ Instructions

Total Number of Lecture Hours: 45

Total Number of Teaching Hours/Module: 9

CREDITS – 02

Course learning objectives: This course (18MCA46) will enable student to

- Learn the role of communication and standard for grammar, numbers and spellings
- Realize the business Etiquettes and organizing the Reports.
- Understand the aspects of group communication.
- Exposure to the various business and technological ethics.

Course Outcomes (CO): *At the end of this course, the students will be able to*

CO1: Understand the Professional communication at work place.

CO2: Acquire the knowledge technical Writing and business Reporting.

CO3: Develop the leadership qualities.

CO4: Understand and implement ethical behavior at work place.

Module 1:

Communication in the workplace- Role of communication in Business, Process of Human Communication. Informal Communication- Listening, Non verbal Communication. Correctness Of



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Communication- Nature of correctness, Standard for Punctuation, Standards for Grammar, Standards for the use of numbers, Spelling, Capitalization.

Module 2:

Writing for Effect- Business Etiquette, conversational style, view point, positive language, and courtesy. Basics ReportWriting- Determine the Factors, Gathering the Information, Organizing the Report, WritingTheReport. Physical Presentation Of Letters, Memos, And Reports- document preparation, Form of Business Letters. Strategies in the job search Process- Preparing application, Resume, Cover letter, Facing an Interview.

Module 3:

Group Communication- Introduction, Group discussion,Organizational group discussion, group discussion as part of selection process meetings. Effective Presentation strategies- Introduction,Defining purpose, Analyzing audience and place, organizing contents, preparing outline, Visual Aids, Understanding Nuances of delivery, Kinesics, Proxemics, Paralinguistics, Chronemics, Sample speech.

Module 4:

Motivation- Motivation and Motivators, Motivation: The Carrot and the stick, The Hierarchy of needs Theory, The Motivation – Hygiene Approach to Motivation. Leadership- Defining Leadership, Ingredients of Leadership, Trait Approaches to Leadership, Leadership behavior and styles, Situational or contingency, Approaches to Leadership.

Module 5:

Ethics: An overview of Ethics- What are Ethics? Ethics in the business World, Ethics in Information Technology (IT). Ethics for IT Professionals and IT users- IT Professionals, The Ethical behavior of IT Professionals, IT Users.

Question paper pattern:


- The question paper will have ten questions.
- Each full question consists of 20 marks.
- There will be 2 full questions from each module.
- Each question will have questions covering all the topics under a module.
- The students will have to answer 5 full questions, selecting one full question from each module

Text Books

1. Meenakshi Raman and Sangeeta Sharma: Technical Communication-Principles and Practices, Oxford University Press, 2004.
2. George Reynolds: Ethics in Information Technology, 2nd Edition, Thomson Course Technology, 2007

Reference Books

1. Lesikar and Flatley: Communication-Basic Business Communication Skills for Empowering the Internet Generation 9th Edition, Tata McGraw-Hill Edition, 2002
2. Harold Koonlz and Heinz Wehrich: Management-Essentials of Management, 9th Edition, McGraw-Hill International Edition, 2012


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