



**CHILDREN'S EDUCATION SOCIETY (Regd.)**  
**THE OXFORD COLLEGE OF ENGINEERING**  
(Recognised by the Govt. of Karnataka, Affiliated to Visveswarya Technological University, Belagavi,  
Approved by A.I.C.T.E. New Delhi,  
Recognised by UGC Under Section 2(F)(1)  
Bommanahalli, Hosur Road, Bangalore - 560 068  
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## PROJECT WORK/FIELD WORK/INTERNSHIP REPORT FOR THE YEAR

2021-22

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*for release...*

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



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## **Summary on Document showing project work, Internship /Field visit prescribed by affiliating university curriculum**

To integrate project work, Internship /Field visit, 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.

### **Project Work**

Project-based learning has proven to be one of the most effective ways to engage students and provide a practical application for what they're learning. Project-based learning not only provides opportunities for students to collaborate or drive their own learning, but it also teaches them skills such as problem solving, and helps to develop additional skills integral to their future, such as critical thinking and time management. And maybe more importantly, it provides students with an opportunity to create authentic projects which are meaningful to society. Students have the chance to pursue their own interests and as a result, opportunities for learning for students and teachers are tremendous. Benefits of project-based learning: Collaboration, Problem Solving, Creativity, In-Depth Understanding, Self-Confidence, Critical Thinking, Perseverance, Project Management, Curiosity, Empowerment.

### **Internship**

An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest. An internship gives a student the opportunity for career exploration and development, and to learn new skills.

### **Field visit**

A field trip or excursion is a journey by the college students to a place away from the normal college environment. Field trips can be educationally and socially engaging additions to students. The objective of all field trips in the college is to expose students to various parts of their community, facilitate connections between students and others, and help students understand themselves as members of their local community. The lessons that follow are general ideas; research specific destinations and activities in or near your community. Social field trips are also beneficial to building camaraderie amongst participants and for having fun!



Children's Education Society  
**THE OXFORD COLLEGE OF ENGINEERING**  
Hosur Road, Bommanahalli, Bengaluru - 560 068

2021-22

TOCE/EST 27/2021-22

Date: 14<sup>th</sup> Sept 2021

### CIRCULAR

**Sub: Curriculum Planning and Delivery Committee Meeting**

All HODs are hereby informed to attend a meeting scheduled for the Odd semester of the upcoming academic year 2021 -2022 to discuss about Curriculum activities for all the departments. The Meeting is scheduled on 21<sup>st</sup> Sept 2021 at 10:00 am in the Board room, The Oxford College of Engineering, Bengaluru.

The agenda for discussion is appended below. Kindly make it convenient to attend the meeting positively:

1. Review of the minutes of previous Meeting
2. Academic Calendar
3. Master Time Table
4. Course File/Pedagogical Methods
5. Value Added Courses, Content beyond syllabus
6. Student Centric Methods
7. Implementation of OBE Matrix
8. Action taken for slow learners and Advanced learners
9. Feedback analysis and Action taken plan
10. Any other points with the permission from the Chair

  
PRINCIPAL

Dr. H. R. Prasad  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bengaluru-560 068

Copy to

The Chairman, The Oxford Educational Institutions  
All HODs  
IQAC

**CHILDREN'S EDUCATION SOCIETY (REGD.)**

Administrative Office:

1<sup>st</sup> Phase JP Nagar, Bengaluru – 560 078

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TOCE/EST/27/2021-22

**PROCEEDINGS OF THE MEETING**  
**Curriculum Planning and Delivery Committee**

Date: 21-09-2021

Time: 10:00 AM

Members Present:

01	Dr N Kannan, Principal		
02	Dr. R Ch A Naidu - HOD - CSE	03	Dr. R Kanagavalli, HOD - ISE
04	Dr. Manju Devi, IOD - ECE	05	Dr V S Bharath HOD - EEE
06	Prof. Madhusudhan Reddy - HOD - ME	07	Dr. B K Manjunath - HOD - BT
08	Dr. Malleshaiah T S - HOD - CIVIL	09	Dr. Raju B R, HOD - Auto
10	Dr. Manjula C – HOD - MTE	11	Dr. Dhanalakshmi R V - HOD - MBA
12	Dr. M S Shashidhar - HOD - MCA	13	Dr. Mallikarjun K - HOD of Maths
14	Dr. Surekha M - HOD - Chemistry	15	Prof. Abdul Khadar – i/c HOD - Physics
16	Mr. Rakesh Bharya - Industry Expert - ECE	17	Mr. Srinath Dronamraju – Alumni - ME

AGENDA: -

1. Review of previous minutes meeting
2. Academic Calendar
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4. Course File / Pedagogical Methods
5. Value Added Courses; Content beyond syllabus
6. Student Centric Methods
7. Implementation of OBE Matrix
8. Action Plan for Slow Learners and Advanced Learners
9. Feedback analysis and Action taken plan



The following agenda was discussed: -

1. Principal welcomed all the members present and the resolution planned in the last meeting has been approved for compliance.
2. The last semester held for 2020-21 EVEN was briefed by Principal.

The 2<sup>nd</sup> semester of B.E. was commenced on 19-05-2021 and all 2<sup>nd</sup> semester PG courses - MCA, MBA & MTech was commenced on 10-05-2021 as per the VTU guidelines.

As per the Government of Karnataka and following the same with VTU Guidelines followed to take the classes in online and Hybrid mode. Faculty handled their classes using Microsoft Teams. Internet issues were there for the students who stays in the remote areas as well as faculty also faced difficulties. To take the online classes faculty need to create the link and shared before commencement of the class every day through WhatsApp class group. CIE Test were planned to be scheduled through online and conducted.

Special Regulations are applied only to the July/August 2021 examinations were framed by the University with the approval of its Authorities that the UG and PG Students of last Terminal Semester means "The students of 8<sup>th</sup> semester B.E./B.Tech, 4<sup>th</sup> semester MBA/M.Tech. and 6<sup>th</sup> semester MCA" except the subjects involving Viva Voce examinations, conducted in off-line (pen and paper) mode, by the end of August 2021. Backlog examinations of final semester, terminal students were conducted off-line. All other even semester students were promoted by considering the special regulation formula for deciding the grades. (The sum of 50% on the basis of CIE and the remaining 50% marks on the basis of performance in previous semester.)

HODs were advised that they should conduct online bridge course for the students to enrich their knowledge during the pandemic.

### 3. Academic Calendar:

The principal briefed the following dates for the commencement of ODD semester as per VTU guidelines.

Sem	VTU	TOCE
V & VII BE	01-10-2021	08-10-2021
III BE	18-10-2021	18-10-2021
III MBA	08-11-2021	08-11-2021
III & V MCA	01-10-2021	08-10-2021
III M. Tech	08-11-2021	08-11-2021

The 1<sup>st</sup> semester of B.E., MCA, MBA & MTech will be commenced later as per the VTU guidelines in view of the pandemic.

The principal directed the HODs to prepare the department calendar for the semester online activities and HODs were advised to submit immediately incorporating all the important academic activities and events.

4. **Master Time Table:** The committee advised HODs to prepare a subject expertise matrix as per the 2018 schemes for higher semesters and 2021 schemes for the 1<sup>st</sup> year UG Programme, and prepare the department time table for the ODD Semester 2021-22.  
The committee advised MCA HOD to prepare a subject expertise matrix and allocate the subject through online for the ODD Semester 2021-22 with the 2020 scheme for the Master of Computer Applications and final semester with the 2018 schemes.

The committee advised MBA HOD to prepare a subject expertise matrix and allocate the subject for the ODD Semester 2021-22 with the 2020 scheme for the Master of Business Administration (MBA) PG Programme

The committee advised all HODs of MTech Course to prepare a subject expertise matrix and allocate the subject for the ODD Semester 2021-22 with the 2020 scheme for the first year, and second year of the Master of Technology (MTech) PG Programme

Based on the same, the Time Table needs to be prepared and HODs were asked to submit the final draft of the Department Time Table and Master Time Table of the department online to the principal's office.

5. **Course File/ Pedagogical Methods:** HODs were instructed to direct the subject faculty to prepare the course file for the current semester subject as per the VTU guidelines before the commencement of the semester. The course file should contain a copy of university syllabus, students list, attendance register, teacher diary along with lesson plans with pedagogical initiatives, notes and reference books, previous IA question papers and university question papers along with scheme of evaluation and question bank, assignments etc.,  
The committee members instructed HODs that they should do a thorough check on the portion coverage related to each subject before the commencement of each Internal Assessments.

The committee members advised HODs to instruct each faculty to adhere the VTU guidelines for conducting Internal Assessments Tests and also advised HODs to have through check on the IA question paper pattern.

Also, the committee members discussed that as per the 2018 scheme, the rubrics for allotment of marks are 60 marks for Semester End Exam (SEE) and 40 marks for Continuous Internal Evaluation (CIE) In 40 marks of Internal Assessment, 30 marks are awarded as the average of 3 Internal assessments and 10 marks for the Assignments which are considered awarding for the final IA marks.

Also, an opportunity can be given to the students who need IA average in form of Improvement test.

And for the 2021 scheme, BE - First year, the rubrics for allotment of marks is 50% marks for Semester End Exam (SEE) and 50% marks for Continuous Internal Evaluation (CIE).

As per the MCA for 2018 scheme, the rubrics for the allotment of marks are 80 marks for Semester End Exams and 20 marks for Internal tests. With 20 marks for the Internal test, 60% for the average of three internal test marks and 40% for the Assignment marks should be considered for awarding



of the final Internal Test marks of the Master of Computer Applications. And for 2020 scheme, the rubrics for the allotment of marks are 60% marks for Semester End Exams and 40% marks for Internal tests.

As per the 2020 scheme of MBA, the rubrics for the allotment of marks are 60% marks for End Semester Exams and 40% marks for Internal Tests. With 25 marks on the Internal test, average of best of 2 out of 3 IA, 15 marks for Assignments / Presentation / Seminars depending on the subjects.

As per the 2020 scheme of MTech, the rubrics for the allotment of marks are 60% marks for End Semester Exams and 40% marks for Internal Tests. With 20 marks on the Internal test, average of 3 IA, and 20 marks for Assignments / Presentation / Seminars depending on the subjects

Faculty were advised to evaluate the blue books within the stipulated duration and after each internal assessment, the slow learners need to be identified for the conduct of bridge.

HODs were advised to instruct the subject faculty that they should incorporate pedagogical methods like group discussion, Industrial visits, MCQs, role play, Quiz, peer to peer learning, brain storming, model based, Industrial visit, and PPTs for the better insight of the concepts for better understanding.

**6. Value Added Courses, Content beyond syllabus:**

The content delivery committee discussed the curriculum and decided during the pandemic we have planned for the academic year 2021-22 ( to enrich the student's knowledge in various thrust areas.

SL NO	Name of Add on /Certificate programs offered	Duration of course
1	Photonic chip design	30 hrs.
2	Advanced Construction Management	30 hrs.
3	Technical Training on Quantum Chemistry Y software	30 hrs.

The Committee members reviewed the above-mentioned courses and approved for the same.

**7. Feedback analysis and Action taken plan:** The feedback committee members are advised to take the feedback on 'Curriculum' as per the template framed for 1- 5 scaling during the academic year 2021-22 (ODD) from the following stakeholders after the 2<sup>nd</sup> IA.

- a) Students
- b) Faculty
- c) Course End Survey
- d) Program Exit Survey
- e) Alumni
- f) Employers

HODs and Feedback committee members are advised to analyze the outcome based on the student's feedback on faculty and should submit the action plan and the same will be discussed in the next meeting. Like faculty who secured greater than 90% are to be appreciated and those who scored less than or equal to 75% need to take immediate necessary action. Such faculty need to undergo and enhance training/FDP/Workshop/Seminars etc. to upgrade their skills.

**10. Implementation of OBE Matrix:** The members took the decision regarding the COs, POs and PSOs of the programs and for implementing appropriate pedagogic strategies. Also informed that the Course outcomes should be designed as per the affiliating university prescribed syllabus and by employing Bloom's Taxonomy verbs and levels. It was also informed that all the Courses should have around five course outcomes and these are correlated to the Program Outcomes (POs). The members also discussed the process of mapping of COs prescribed by VTU and POs prescribed by the NBA related for the course.

HODs were advised to instruct the faculty that the mapping should be based on the scaling parameter which is as defined by NBA and are as follows: -

"1" – Slight (Low) correlation, "2" – Moderate (Medium) Correlation, "3" – Substantial (High) correlation and "-" indicates there is no correlation. Similarly, COs with PSOs should be mapped to achieve the attainments.

**8. Students Centric Methods:** The content delivery committee members took the decision to incorporate the student's centric methods to improve the student's learning ability. HODs were advised to instruct the faculty should adhere the following methods in the teaching process. Guest Lecture / Expert Talk / Technical Talk/Seminar/Webinar, Hands-on session, Interactive Session, Soft skill training/ Technical Training, Industrial visit/ field visit, Internship, Project, Mini Project & innovative practices.

**9. Action Plan for Slow learners and Advanced Learners:** The content delivery committee members instructed HODs to direct the subject faculty that they should conduct remedial classes and mentoring for the slow learners. And, also instruct the advanced learners to participate for the Conferences, Add-on courses, MOOC courses to enrich their subject knowledge in turn to get the university rank

#### 10. Resolutions

1. Principal instructed to follow the 2021, 2020 and 2018 scheme CIE rubrics.
2. The approved syllabus is followed.
3. Principal advised all faculty should have their course file ready and checked by respective HODs before the commencement of the classes.
4. Action plan should be submitted one week after this meeting.
5. It is decided that all should encourage the students towards more pedagogy initiatives to get better insights in the academics.
6. Principal advised to conduct the bridge course/add on course/industrial visit/workshops to fill the gap.

Copy to:  
The Chairman, The Oxford Educational Institutions  
All HODs.  
IQAC

  
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068  
2021-22 -

Dated-21.09.2021

Ref: 2021-22/ BT/PAC1

**DEPARTMENT OF BIOTECHNOLOGY**


**CIRCULAR**

**CURRICULUM PLANNING AND DELIVERY COMMITTEE MEETING ON 22<sup>nd</sup> Sept 2021**

Dear Members of PAC/DAC

This is to inform that, a meeting is called on **22.09.2021**, to discuss the proceedings of meeting conducted by Curriculum Planning and Delivery Committee for even semester at **2.30 pm** in the department. Kindly attend the meeting and do the needful.

Thanking you

With regards  
  
**B.K. MANJUNATHA**  
Professor & Head  
Department of Biotechnology  
The Oxford College of Engineering  
Bengaluru-560 068.



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Ref: TOCE/ BT/2021-22

**Department of Biotechnology**

**PROCEEDINGS OF THE MEETING  
Curriculum Planning and Delivery Committee**

Date: 22.09.2021

Time: 2:30- 3:30 pm

**Members Present**

S.No	Name of the Full-time teacher
1	Dr. B.K.Manjunath
2	Dr.Gangadhar Gouripur
3	Dr.Valarmathy .K.
4	Dr.Ajitha gomathi
5	Dr. Natiya.T
6	Mr.Divakara.R
7	Ms.Salma Kausar.M.
8	Mrs. Aswathi Unnikrishnan
9	Mr.Shambu M.G.

**AGENDA: -**

1. Review of previous minutes meeting
2. Academic Calendar
3. Master Time Table
4. Course File / Pedagogical Methods
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6. Student Centric Methods
7. Implementation of OBE Matrix
8. Action Plan for Slow Learners and Advanced Learners
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The following agenda was discussed: -

1. HOD welcomed all the members present and the resolution planned in the last meeting has been approved for compliance.
2. The last semester held for 2020-21 EVEN was briefed by HOD. As per the Government of Karnataka and following the same with VTU Guidelines followed to take the classes in online and Hybrid mode. Faculty handled their classes using Microsoft Teams. Internet issues were there for the students who stays in the remote areas as well as faculty also faced difficulties. To take the online classes faculty need to create the link and shared before commencement of the class every day through WhatsApp class group. CIE Test were planned to be scheduled through online and conducted.

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HODs were advised that they should conduct online bridge course for the students to enrich their knowledge during the pandemic.

**3. Academic Calendar:**

The HOD briefed the following dates for the commencement of ODD semester as per VTU guidelines.

Sem	VTU	TOCE
V & VII BE	01-10-2021	08-10-2021
III BE	18-10-2021	18-10-2021

The 1<sup>st</sup> semester of B.E., MCA, MBA & MTech will be commenced later as per the VTU guidelines in view of the pandemic.

**4. Master Time Table:**

The HOD advised faculty to prepare a subject expertise matrix as per the 2018 schemes for higher semesters and 2021 schemes for the 1<sup>st</sup> year UG Programme, and prepare the department time table for the ODD Semester 2021-22.





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The HOD instructed faculty to adhere the VTU guidelines for conducting Internal Assessments Tests and also advised HODs to have through check on the IA question paper pattern. Also, the committee members discussed that as per the 2018 scheme, the rubrics for allotment of marks are 60 marks for Semester End Exam (SEE) and 40 marks for Continuous Internal Evaluation (CIE) In 40 marks of Internal Assessment, 30 marks are awarded as the average of 3 Internal assessments and 10 marks for the Assignments which are considered awarding for the final IA marks. Also, an opportunity can be given to the students who need IA average in form of Improvement test.

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6. **Feedback analysis and Action taken plan:** The feedback committee members are advised to take the online feedback on 'Curriculum' as per the template framed for the academic year 2020-21 (odd) from the following stakeholders after the 2<sup>nd</sup> IA.

- a) Students
- b) Faculty
- c) Course End Survey
- d) Program Exit Survey
- e) Alumni
- f) Employers

HOD advised to analyze the outcome based on the student's feedback on faculty and should submit the action plan and the same will be discussed in the next meeting. Like faculty who secured greater than 90% are to be appreciated and those who scored less than or equal to 75% need to take immediate necessary action. Such faculty need to undergo and enhance training/FDP/Workshop/Seminars etc. to upgrade their skills.



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**9. Action Plan for Slow learners and Advanced Learners:**

The content delivery committee members instructed HODs to direct the subject faculty that they should conduct remedial classes and mentoring for the slow learners. And, also instruct the advanced learners to participate for the Conferences, Add-on courses, MOOC courses to enrich their subject knowledge in turn to get the university rank.

**10. Resolutions**

- HOD instructed to follow the 2021, 2020 and 2018 scheme CIE rubrics.
- The approved syllabus is followed.
- HOD advised all faculty should have their course file ready and checked before the commencement of the classes.
- Action plan should be submitted one week after this meeting.
- HOD advised to conduct the bridge course/add on course/industrial visit/workshops to fill the gap.

HOD-BT

Dr. B.K MANJUNATHA

Professor & Head

Department of Biotechnology

The Oxford College of Engineering

Bangaluru-560 068.





Children's Education Society ®  
THE OXFORD COLLEGE OF ENGINEERING  
Hosur Road, Bommanahalli, Bengaluru-560 068

2021-22

TOCE/EST27/2021-22

Date: 28<sup>th</sup> Mar. 2022

### CIRCULAR

**Sub: Curriculum Planning and Delivery Committee Meeting**

All HODs are hereby informed to attend a meeting scheduled for the upcoming Even semester of academic year 2021 -2022 to discuss about Curriculum activities for all the departments. The Meeting is scheduled on 1<sup>st</sup> April 2022 at 10:00 am in the Board room, The Oxford College of Engineering, Bengaluru.

The agenda for discussion is appended below. Kindly make it convenient to attend the meeting positively:

1. Review of the minutes of previous Meeting
2. Academic Calendar
3. Master Time Table
4. Course File/Pedagogical Methods
5. Value Added Courses, Content beyond syllabus
6. Student Centric Methods
7. Implementation of OBE Matrix
8. Action taken for slow learners and Advanced learners
9. Feedback analysis and Action taken plan
10. Any other points with the permission from the Chair

  
28/03/22

PRINCIPAL

Dr. N. Kannan

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Copy to

The Chairman, The Oxford Educational Institutions  
All HODs  
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TOCE/EST/27/2021-22

### **PROCEEDINGS OF THE MEETING** **Curriculum Planning and Delivery Committee**

Date: 01-04-2022

Time: 10:00 AM

Members Present:

01	Dr N Kannan, Principal		
02	Dr. R Ch A Naidu - HOD - CSE	03	Dr. R Kanagavalli, HOD - ISE
04	Dr. Manju Devi, HOD - ECE	05	Dr V S Bharath HOD - EEE
06	Prof. Madhusudhan Reddy - HOD - ME	07	Dr. B K Manjunath - HOD - BT
08	Dr. Malleshaiah T S - HOD - CIVIL	09	Dr. Raju B R, HOD - Auto
10	Dr. Manjula C – HOD - MTE	11	Dr. Tharaka Rami Reddy- HOD - MBA
12	Dr. M S Shashidhar - HOD - MCA	13	Dr. Mallikarjun K - HOD of Maths
14	Dr. Surekha M - HOD - Chemistry	15	Prof. Abdul Khadar – i/c HOD - Physics
15	Dr. Srinivas Talabattula - Academic Expert-ECE	16	Mr. Nanda Gopal - Industry Expert - MT

AGENDA: -

1. Review of previous minutes meeting
2. Academic Calendar
3. Master Time Table
4. Course File / Pedagogical Methods
5. Value Added Courses; Content beyond syllabus
6. Student Centric Methods
7. Implementation of OBE Matrix
8. Action Plan for Slow Learners and Advanced Learners
9. Feedback analysis and Action taken plan

The following agenda was discussed: -

1. Principal welcomed all the dignitaries and members present.
2. The resolution planned in the last meeting has been approved for immediate compliance.
3. The last semester held for 2021-22 ODD was briefed by principal.

As per the VTU guidance the 1<sup>st</sup> semester of B.E. was commenced on 13-12-2021, and for 1<sup>st</sup> semester of PG - MBA, MCA, MTech was commenced on 14-02-2022.

As per the Government of Karnataka and following the same with VTU Guidelines, where followed to take the classes in online and blended mode. As faculty started their classes using Microsoft Teams and blended mode. The classes were conducted in online mode as per the lesson plan, due to pandemic and attendance were checked twice a week and report was sent. To take the online classes faculty need to create the link and share before commencement of the class every day through WhatsApp class group. Online meetings were conducted and to monitor the classes, HODs were instructed to login to the class and monitor the same. Also, HODs were advised to include Principal and Directors in all 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 into the Google Sheet shared to HODs mail everyday by 06:00pm without fail.

He also reviewed the results of CIE and Semester End Examination for each branch. It was also noted that the expected target in results were not satisfied and could have achieved good results for which the committee members advised all HODs and subject faculty to improve the same during the coming semester 2020-21.

HODs were advised to conduct online bridge course for the students to enrich their knowledge during the pandemic

4. **Academic Calendar:**

The principal briefed the following dates for the commencement of Even semester as per the VTU guidelines

Semester	VTU	TOCE
IV B. E	23-05-2022	23-05-2022
VI & VIII B. E	04-04-2022	06-04-2022
II B. E	06-06-2022	06-06-2022
II MBA	10-05-2022	27-06-2022
IV MBA	21-04-2022	09-05-2022
II MCA	27-06-2022	27-06-2022
IV & VI MCA	04-04-2022	04-04-2022
IV M Tech	06-04-2022	06-04-2022

The principal instructed the HODs to prepare the department calendar for the semester activities and HODs were advised to submit incorporating all the important academic activities and events by finalizing the date.

5. **Master Time Table:** The committee advised HODs to prepare a subject expertise matrix as per the 2018 schemes and should follow the 2018 scheme for the EVEN Semester 2020-21.



The committee advised MCA HOD to prepare a subject expertise matrix and allocate the subject through online for the EVEN Semester 2020-21 with the 2020 scheme for the Master of Computer Applications. The committee advised MBA HOD to prepare a subject expertise matrix and allocate the subject for the EVEN Semester 2020-21 with the 2020 scheme for the Master of Business Administration (MBA) PG Programme.

Also, the committee advised HODs of M Tech to prepare a subject expertise matrix and allocate the subject for the ODD Semester 2019-20 with the 2018 scheme for the Master of Technology (MTech) PG Programme.

Based on the same, the Time Table needs to be prepared and HODs were asked to submit the final draft of the Department Time Table and Master Time Table of the department online to the principal's office.

6. **Course File / Pedagogical Methods:** HODs were instructed to direct the subject faculty to prepare the course file for the current semester subject as per the VTU guidelines before the commencement of the semester. The course file should contain a copy of university syllabus, students list, attendance register, teacher diary along with lesson plans with pedagogical initiatives, notes and reference books, previous IA question papers and university question papers along with scheme of evaluation and question bank, assignments etc.,

The committee members instructed HODs that they should do a thorough check on the portion coverage related to each subject before the commencement of each Internal Assessments.

The committee members advised HODs to instruct each faculty to adhere the VTU guidelines for conducting Internal Assessments Tests and also advised HODs to have through check on the IA question paper pattern.

Also, the committee members discussed that as per the 2018 scheme, the rubrics for allotment of marks are 60 marks for Semester End Exam (SEE) and 40 marks for Continuous Internal Evaluation (CIE). In 40 marks of Internal Assessment, 30 marks are awarded as the average of 3 Internal assessments and 10 marks for the Assignments which are considered awarding for the final IA marks.

Also, an opportunity can be given to the students who need IA average in form of Improvement test.

And for the 2021 scheme, BE - First year, the rubrics for allotment of marks is 50% marks for Semester End Exam (SEE) and 50% marks for Continuous Internal Evaluation (CIE).

As per the MCA for 2018 scheme, the rubrics for the allotment of marks are 80 marks for Semester End Exams and 20 marks for Internal tests. With 20 marks for the Internal test, 60% for the average of three internal test marks and 40% for the Assignment marks should be considered for awarding of the final Internal Test marks of the Master of Computer Applications. And for 2020 scheme, the rubrics for the allotment of marks are 60% marks for Semester End Exams and 40% marks for Internal tests.

As per the 2020 scheme of MBA, the rubrics for the allotment of marks are 60% marks for End Semester Exams and 40% marks for Internal Tests. With 25 marks on the Internal test, average of best of 2 out of 3 IA, 15 marks for Assignments / Presentation / Seminars depending on the subjects.

As per the 2020 scheme of MTech, the rubrics for the allotment of marks are 60% marks for End Semester Exams and 40% marks for Internal Tests. With 20 marks on the Internal test, average of 3 IA, and 20 marks for Assignments / Presentation / Seminars depending on the subjects.

Faculty were advised to evaluate the blue books within the stipulated duration and after each internal assessment, the slow learners need to be identified for the conduct of bridge.



HODs were advised to instruct the subject faculty that they should incorporate pedagogical methods like group discussion, Industrial visits, MCQs, role play, Quiz, peer to peer learning, brain storming, model based, Industrial visit, and PPTs for the better insight of the concepts for better understanding.

7. **Value Added Courses, Content beyond syllabus:** The content delivery committee discussed the curriculum and decided during the pandemic to plan for the academic year 2021-22 to enrich the student's knowledge in various thrust areas.

Sl. NO	Name of Add on /Certificate programs offered	Duration of course
1	Industrial 2D & 3D designs basics with with GD & T	30 hrs.
2	Practical applications of Industrial 2D & 3D design	30 hrs.
3	Employer Branding	30 hrs.
4	Problem solving and ideation	30 hrs

The Committee members reviewed the above-mentioned courses and approved for the same.

8. **Feedback analysis and Action taken plan.**

The feedback committee members are advised to take online feedback on 'Curriculum' as per the template framed for the academic year 2020-21 (Even) from the following stakeholders after the 2<sup>nd</sup> IA.

- a) Students
- b) Faculty
- c) Course End Survey
- d) Program Exit Survey
- e) Alumni
- f) Employers

HODs and Feedback committee members are advised to analyze the outcome based on the student's feedback on faculty and should submit the action plan and the same will be discussed in the next meeting. Like faculty who secured greater than 90% are to be appreciated and those who scored less than or equal to 75% need to take immediate necessary action. Such faculty need to undergo and enhance training/FDP/Workshop/Seminars etc. to upgrade their skills.

9. **Implementation of OBE Matrix**

The members took the decision regarding the COs, POs and PSOs of the programs and for implementing appropriate pedagogic strategies. Also informed that the Course outcomes are designed as per the affiliating university prescribed syllabus and by employing Bloom's taxonomy verbs and levels. It was also informed that all the Courses have around five course outcomes and these are correlated to the Program Outcomes (POs). The members also discussed the process of mapping of COs prescribed by VTU and POs prescribed by the NBA related for the course.

HODs were advised to instruct the faculty that the mapping should be based on the scaling parameter which is as defined by NBA and are as follows: -

"1" – Slight (Low) correlation, "2" – Moderate (Medium) Correlation, "3" – Substantial (High) correlation and "-" indicates there is no correlation. Similarly, COs with PSO's should be mapped to achieve the attainments.

#### 10. Students Centric Methods

The content delivery committee members took the decision to incorporate the student's centric methods to improve the student's learning ability. HODs were advised to instruct the faculty to adhere the following methods in the teaching process. Guest Lecture / Expert Talk / Technical Talk/Seminar/Webinar, Hands-on session, Interactive Session, Soft skill training/Technical Training, Industrial visit/field visit, Internship, Project, Mini Project & innovative practices.

#### 11. Action Plan for Slow learners and Advanced Learners

The content delivery committee members instructed HODs to direct the subject faculty should conduct remedial classes and mentoring for the slow learners through online or in blended mode. And, also instruct the advanced learners to participate for the Conferences, Add-on courses, MOOC courses to enrich their subject knowledge in turn to get the university rank.

#### 12. Resolutions

1. Principal instructed to follow the 2021 scheme and 2018 scheme CIE rubrics.
2. The approved syllabus is followed.
3. Principal advised all faculty should have their course file ready and checked by respective HODs before the commencement of the classes.
4. Action plan should be submitted one week after this meeting.
5. It is decided that all should encourage the students towards more pedagogy initiatives to get better insights in the academics.
6. Principal advised to conduct the bridge course/add on course/industrial visit/workshops to fill the gap.

Copy to:  
The Chairman, The Oxford Educational Institutions  
All HODs.  
IQAC

  
PRINCIPAL  
PRINCIPAL  
The Oxford College of Engineering  
Bommanalalli, Hoysa  
Bangalore-560 0





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2021-22-6

Ref: 2021-22/ BT/PAC1

Dated-02.05.2022

## DEPARTMENT OF BIOTECHNOLOGY

### CIRCULAR

**CURRICULUM PLANNING AND DELIVERY COMMITTEE MEETING ON 3<sup>rd</sup> May 2022**

Dear Members of PAC/DAC

This is to inform that, a meeting is called on **03.05.2022**, to discuss the proceedings of meeting conducted by Curriculum Planning and Delivery Committee for even semester at **2.30 pm** in the department. Kindly attend the meeting and do the needful.

Thanking you

With regards

HOD/BT

**DR. B.K MANJUNATHA**  
Professor & Head

Department of Biotechnology  
The Oxford College of Engineering  
Bengaluru-560 068.



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OCE/ BT/2021-22

**Department of Biotechnology**

**PROCEEDINGS OF THE MEETING**  
**Curriculum Planning and Delivery Committee**

Date: 03.05.2022

Time: 2:30- 3:30 pm

**Members Present**

S.No	Name of the Full-time teacher
1	Dr. B.K.Manjunath
2	Dr.Gangadhar Gouripur
3	Dr.Valarmathy .K.
4	Dr.Ajitha gomathi
5	Dr. Natiya.T
6	Mr.Divakara.R
7	Ms.Salma Kausar.M.
8	Mrs. Aswathi Unnikrishnan
9	Mr.Shambu M.G.

**AGENDA: -**

1. Review of previous minutes meeting
2. Academic Calendar
3. Master Time Table
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6. Student Centric Methods
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The following agenda was discussed: -

1. HOD welcomed all the dignitaries and members present.
2. The resolution planned in the last meeting has been approved for immediate compliance.
3. The last semester held for 2021-22 ODD was briefed by HOD. As per the Government of Karnataka and following the same with VTU Guidelines, where followed to take the classes in online and blended mode. As faculty started their classes using Microsoft Teams and blended mode. The classes were conducted in online mode as per the lesson plan, due to pandemic and attendance were checked twice a week and report was sent. To take the online classes faculty need to create the link and share before commencement of the class every day through WhatsApp class group. Online meetings were conducted and to monitor the classes, HODs were instructed to login to the class and monitor the same. Also, HODs were advised to include HOD and Directors in all 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 into the Google Sheet shared to HODs mail everyday by 06:00pm without fail.

He also reviewed the results of CIE and Semester End Examination for each branch. It was also noted that the expected target in results were not satisfied and could have achieved good results for which the committee members advised all HODs and subject faculty to improve the same during the coming semester 2020-21.

HODs were advised to conduct online bridge course for the students to enrich their knowledge during the pandemic

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II MCA		27-06-2022
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IV M Tech		06-04-2022



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The HOD instructed the HODs to prepare the department calendar for the semester activities and HODs were advised to submit incorporating all the important academic activities and events by finalizing the date.

**5. Master Time Table:**

The HOD advised faculty to prepare a subject expertise matrix as per the 2018 schemes and should follow the 2018 scheme for the EVEN Semester 2020-21.

Based on the same, the Time Table needs to be prepared and were asked to submit the final draft of the Department Time Table and Master Time Table of the department online to the HOD's office.

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HOD instructed the subject faculty to prepare the course file for the current semester subject as per the VTU guidelines before the commencement of the semester. The course file should contain a copy of university syllabus, students list, attendance register, teacher diary along with lesson plans with pedagogical initiatives, notes and reference books, previous IA question papers and university question papers along with scheme of evaluation and question bank, assignments etc.,

As per the 2018 scheme, the rubrics for allotment of marks are 60 marks for Semester End Exam (SEE) and 40 marks for Continuous Internal Evaluation (CIE) In 40 marks of Internal Assessment, 30 marks are awarded as the average of 3 Internal assessments and 10 marks for the Assignments which are considered awarding for the final IA marks.

Also, an opportunity can be given to the students who need IA average in form of Improvement test.

And for the 2021 scheme, BE - First year, the rubrics for allotment of marks is 50% marks for Semester End Exam (SEE) and 50% marks for Continuous Internal Evaluation (CIE).





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- 7. Value Added Courses, Content beyond syllabus:** The content delivery committee discussed the curriculum and decided during the pandemic we have planned for the academic year 2021-22 to enrich the student's knowledge in various thrust areas.

SL NO	Name of Add on /Certificate programs offered	Duration of course
1	Quantum chemistry software	30hrs

The Committee members reviewed the above-mentioned courses and approved for the same.

**8. Feedback analysis and Action taken plan.**

The feedback committee members are advised to take online feedback on 'Curriculum' as per the template framed for the academic year 2020-21 (Even) from the following stakeholders after the 2<sup>nd</sup> IA.

- Students
- Faculty
- Course End Survey
- Program Exit Survey
- Alumni
- Employers

HODs and Feedback committee members are advised to analyze the outcome based on the student's feedback on faculty and should submit the action plan and the same will be discussed in the next meeting. Like faculty who secured greater than 90% are to be appreciated and those who scored less than or equal to 75% need to take immediate necessary action. Such faculty need to undergo and enhance training/FDP/Workshop/Seminars etc. to upgrade their skills.



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#### 12. Resolutions

1. HOD instructed to follow the 2021 scheme and 2018 scheme CIE rubrics.
2. The approved syllabus is followed.
3. HOD advised all faculty should have their course file ready and checked by respective HODs before the commencement of the classes.
4. Action plan should be submitted one week after this meeting.
5. It is decided that all should encourage the students towards more pedagogy initiatives to get better insights in the academics.
6. HOD advised to conduct the bridge course/add on course/industrial visit/workshops to fill the gap.

HOD-BT

**Dr. B.K MANJUNATHA**

Professor & Head

Department of Biotechnology

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**PROJECT WORK/FIELD WORK/INTERNSHIP REPORT FOR THE YEAR  
2021-22**

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3	PG-Regulation - Highlighting Project Work, Internship/Field Visit	13-25
4	UG-Regulation - Highlighting Mini Project	26-30
5	UG-Regulation - Highlighting Lab with Mini Project	31-34

*for*   
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## **Summary on Document showing project work, Internship /Field visit prescribed by affiliating university curriculum**

To integrate project work, Internship /Field visit, 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.

### **Project Work**

Project-based learning has proven to be one of the most effective ways to engage students and provide a practical application for what they're learning. Project-based learning not only provides opportunities for students to collaborate or drive their own learning, but it also teaches them skills such as problem solving, and helps to develop additional skills integral to their future, such as critical thinking and time management. And maybe more importantly, it provides students with an opportunity to create authentic projects which are meaningful to society. Students have the chance to pursue their own interests and as a result, opportunities for learning for students and teachers are tremendous. Benefits of project-based learning: Collaboration, Problem Solving, Creativity, In-Depth Understanding, Self-Confidence, Critical Thinking, Perseverance, Project Management, Curiosity, Empowerment.

### **Internship**

An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest. An internship gives a student the opportunity for career exploration and development, and to learn new skills.

### **Field visit**

A field trip or excursion is a journey by the college students to a place away from the normal college environment. Field trips can be educationally and socially engaging additions to students. The objective of all field trips in the college is to expose students to various parts of their community, facilitate connections between students and others, and help students understand themselves as members of their local community. The lessons that follow are general ideas; research specific destinations and activities in or near your community. Social field trips are also beneficial to building camaraderie amongst participants and for having fun!



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**2021-22**

**UG**

**CSE**

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)												
VIII SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours/Week			Examination			Credits	
					Theory Lectures	Tutorial	Practical/Projecting	Duration in hours	CIE Marks	SEE Marks		Total Marks
1	PCC	18CS81	Internet of Things	CS / IS	3	--	--	03	40	60	100	3
2	PEC	18CS82N	Professional Elective - 4	CS / IS	3	--	--	03	40	60	100	3
3	Project	18CS83	Project Work Phase - 2	CS / IS	--	--	2	03	40	60	100	8
4	Seminar	18CS84	Technical Seminar	CS / IS	--	--	2	03	100	--	100	1
5	INT	18CS85	Internship	(Completed during the intervening vacations of VI and VII semesters and/or VII and VIII semesters.)				03	40	60	100	3
<b>TOTAL</b>					<b>06</b>	<b>--</b>	<b>04</b>	<b>15</b>	<b>240</b>	<b>240</b>	<b>500</b>	<b>18</b>
Note: PCC: Professional Core, PEC: Professional Elective, OEC: Open Elective, ENT: Internship.												
<b>Professional Electives - 4</b>												
Course code under 18CS82N	Course Title											
18CS821	Mobile Computing											
18CS822	Storage Area Networks											
18CS823	NoSQL Database											
18CS824	Multicore Architecture and Programming											
<b>Project Work CIE procedure for Project Work Phase - 2:</b>												
(i) <b>Single discipline:</b> The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.												
(ii) <b>Interdisciplinary:</b> Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.												
<b>SEE for Project Work Phase - 2:</b>												
(i) <b>Single discipline:</b> Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.												
(ii) <b>Interdisciplinary:</b> Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student's belong to.												
<b>Internship:</b> Those, who have not pursued /completed the internship shall be declared as fail and have to complete during subsequent University												





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ISE

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)												
VIII 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	18CS81	Internet of Things	CS / IS	3	--	--	03	40	60	100	3
2	PEC	18CS82X	Professional Elective - 4	CS / IS	3	--	--	03	40	60	100	3
3	Project	18CSP83	Project Work Phase - 2	CS / IS	--	--	2	03	40	60	100	8
4	Seminar	18CSS84	Technical Seminar	CS / IS	--	--	2	03	100	--	100	1
5	INT	18CS85	Internship	(Completed during the intervening vacations of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
<b>TOTAL</b>					<b>06</b>	<b>--</b>	<b>04</b>	<b>15</b>	<b>260</b>	<b>240</b>	<b>500</b>	<b>18</b>
<p><b>Note:</b> PCC: Professional Core, PEC: Professional Elective, OEC: Open Elective, INT: Internship.</p>												
<b>Professional Electives - 4</b>												
<b>Course code under 18CS82X</b>		<b>Course Title</b>										
18CS821		Mobile Computing										
18CS822		Storage Area Networks										
18CS823		NoSQL Database										
18CS824		Multicore Architecture and Programming										
<p><b>Project Work CIE procedure for Project Work Phase - 2:</b></p> <p>(i) <b>Single discipline:</b> The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.</p> <p>(ii) <b>Interdisciplinary:</b> Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.</p> <p><b>SEE for Project Work Phase - 2:</b></p> <p>(i) <b>Single discipline:</b> Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.</p> <p>(ii) <b>Interdisciplinary:</b> Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belong to.</p> <p><b>Internship:</b> Those, who have not pursued /completed the internship shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements</p>												



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ECE

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											
VIII 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	PCC	18EC81	Wireless and Cellular Communication	3	--	--	03	40	60	100	3
2	PEC	18XX82X	Professional Elective - 4	3	--	--	03	40	60	100	3
3	Project	18EC183	Project Work Phase - 2	--	--	2	03	40	60	100	8
4	Seminar	18EC884	Technical Seminar	--	--	2	03	100	--	100	1
5	Internship	18EC185	Internship	Completed during the vacation's of VI and VII semesters and/or VII and VIII semesters.)			03	40	60	100	3
<b>TOTAL</b>				<b>06</b>	<b>--</b>	<b>04</b>	<b>15</b>	<b>200</b>	<b>240</b>	<b>500</b>	<b>18</b>
Note: PCC: Professional Core, PEC: Professional Elective.											
<b>Professional Elective - 4</b>											
Course code under 18XX82X		Course Title									
18EC821		Network Security									
18EC822		Micro Electro Mechanical Systems									
18EC823		Radar Engineering									
18EC824		Optical Communication Networks									
18EC825		Biomedical Signal Processing									



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EEE

9

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)												
VIII 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	PCC	18EE81	Power System Operation and Control	EEE	3	--	--	05	40	60	100	3
2	PEC	18EE82X	Professional Elective - 4	EEE	3	--	--	05	40	60	100	3
3	Project	18EEP83	Project Work Phase - 2		--	--	2	03	40	60	100	8
4	Seminar	18EE584	Technical Seminar		--	--	2	05	100	--	100	1
5	Internship	18EE185	Internship	Completed during the vacation/s of VI and VII semesters and /or VII and VIII semesters.)				05	40	60	100	3
<b>TOTAL</b>					<b>06</b>	<b>--</b>	<b>04</b>	<b>15</b>	<b>260</b>	<b>240</b>	<b>500</b>	<b>18</b>

Note: PCC: Professional Core, PEC: Professional Elective.

**Professional Electives - 4**

Course code under 18XX82X	Course Title
18EE821	FACTS and HVDC Transmission
18EE822	Electrical Estimation and Costing
18EE823	Big Data Analytics in Power Systems
18EE824	Power System Planning
18EE825	Electrical Power Quality

**Project Work**

**CIE procedure for Project Work Phase - 2:**

(i) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable.

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Project Work Phase - 2:





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ME

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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)												
VIII 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	PCC	18ME81	Energy Engineering		3	--	--	03	40	60	100	3
2	PEC	18ME82X	Professional Elective - 4		3	--	--	03	40	60	100	3
3	Project	18MEP83	Project Work Phase - 2		--	--	2	03	40	60	100	8
4	Seminar	18MES84	Technical Seminar		--	--	2	03	100	--	100	1
5	Internship	18XXB5	Internship	Completed during the vacation/s of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
<b>TOTAL</b>					<b>06</b>	<b>--</b>	<b>04</b>	<b>15</b>	<b>240</b>	<b>240</b>	<b>500</b>	<b>18</b>
<b>Note:</b> PCC: Professional Core, PEC: Professional Elective.												
<b>Professional Electives - 4</b>												
Course code under 18XX82X	Course Title			Course code under 18XX82X	Course Title							
18ME821	CNC Machine Tools			18ME824	Automobile Engineering							
18ME822	Tribology			18ME825	Tool Design							
18ME823	Non-Destructive Testing and Evaluation			18ME826	Fracture Mechanics							
<b>Project Work</b>												
<b>CIE procedure for Project Work Phase - 2:</b>												
(i) <b>Single discipline:</b> The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.												
(ii) <b>Interdisciplinary:</b> Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.												
<b>SEE for Project Work Phase - 2:</b>												
(i) <b>Single discipline:</b> Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.												
(ii) <b>Interdisciplinary:</b> Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belongs to.												
<b>Internship:</b> Those, who have not pursued /completed the internship, shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements.												



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BT

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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													
VIII 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	PCC	18BT8E1	Regulatory Affairs in Biotech Industry	Biotech	2	--	--	03	40	60	100	2	
2	PEC	18BT8E2X	Professional Elective - 4	Biotech	2	--	--	03	40	60	100	3	
3	Project	18BT8E3	Project Work Phase - 2	-	--	--	2	03	40	60	100	8	
4	Seminar	18BT8E4	Technical Seminar	-	--	--	2	05	100	--	100	1	
5	Internship	18BT8E5	Internship	Completed during the vacation/s of VI and VII semesters and/or VII and VIII semesters.				03	40	60	100	3	
					<b>TOTAL</b>	<b>06</b>	<b>--</b>	<b>04</b>	<b>15</b>	<b>240</b>	<b>240</b>	<b>500</b>	<b>18</b>
Note: PCC: Professional Core, PEC: Professional Elective.													
<b>Professional Electives - 4</b>													
Course code under 18BT82X		Course Title											
18BT821		Environmental Biotechnology											
18BT822		Industrial Microbiology											
18BT823		Marine Biotechnology											
<b>Project Work</b>													
<b>CIE procedure for Project Work Phase - 2:</b>													
(i) <b>Single discipline:</b> The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.													
(ii) <b>Interdisciplinary:</b> Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide's, if any, is desirable. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.													
<b>SEE for Project Work Phase - 2:</b>													
(i) <b>Single discipline:</b> Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.													
(ii) <b>Interdisciplinary:</b> Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student's belong to.													
<b>Internship:</b> Those, who have not pursued/completed the internship, will be declared as failed and have to complete during subsequent University examination after satisfying the internship requirements.													
<b>ACTE activity Points:</b> In case a student fails to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. The principals shall include the prescribed activity points earned by the students along with the CIE marks.													





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CV

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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												
VIII SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				
					Theory Lectures	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	PCC	18CV81	Design of Pre-stressed Concrete	Civil Engg.	3	-	-	03	40	60	100	3
2	PEC	18CV82N	Professional Elective - 4	Civil Engg.	3	-	-	03	40	60	100	3
3	Project	18CV83	Project Work Phase - 2	Civil Engg.	-	-	16	03	40	60	100	8
4	Seminar	18CV84	Technical Seminar	Civil Engg.	-	-	2	03	100	-	100	1
5	Internship	18CV85	Internship	Completed during the vacation's of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
<b>TOTAL</b>					<b>06</b>	<b>-</b>	<b>18</b>	<b>15</b>	<b>260</b>	<b>240</b>	<b>500</b>	<b>18</b>
<b>Note:</b> PCC: Professional Core, PEC: Professional Elective												
<b>Professional Electives - 4</b>												
<b>Course code under 18CV82N</b>		<b>Course Title</b>										
18CV821		Bridge Engineering										
18CV822		Prefabricated Structures										
18CV823		Advanced Foundation Engineering										
18CV824		Rehabilitation & Retrofitting										
18CV825		Pavement Design										
<b>Project Work</b>												
<b>CIE procedure for Project Work Phase - 1:</b>												
(i) <b>Single discipline:</b> The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.												
The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.												
(ii) <b>Interdisciplinary:</b> Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide's, if any, is desirable.												
The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.												
<b>SEE for Project Work Phase - 2:</b>												



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CIVIL ENGINEERING												
Scheme of Teaching and Examination 2018 - 19												
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(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 Lecture	Tutorial	Practical/ al/ Drawin	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	PCC	18CV61	Design of Steel Structural Elements	Civil Engg.	3	2	--	03	40	60	100	4
2	PCC	18CV62	Applied Geotechnical Engineering	Civil Engg.	3	2	--	03	40	60	100	4
3	PCC	18CV63	Hydrology and Irrigation Engineering	Civil Engg.	3	2	--	03	40	60	100	4
4	PEC	18CV64X	Professional Elective -1	Civil Engg.	3	--	--	03	40	60	100	3
5	OEC	18CV65X	Open Elective -A	Civil Engg.	3	--	--	03	40	60	100	3
6	PCC	18CVL66	Software Application Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
7	PCC	18CVL67	Environmental Engineering Laboratory	Civil Engg.	--	2	2	03	40	60	100	2
8	EP	18CVEP68	Extensive Survey project	Civil Engg.	--	2	2	03	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.								
<b>TOTAL</b>					<b>15</b>	<b>12</b>	<b>06</b>	<b>24</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>24</b>
<b>Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.</b>												
<b>Professional Elective -1</b>												
<b>Course code under 18CV64X</b>												
18CV641 Matrix Method of Structural Analysis												



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Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2018 – 19)												
VIII 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	PCC	18AU11	Vehicle Body Engineering and Safety	Automobile Engg.	3	–	–	03	40	60	100	3
2	PEC	18AU82X	Professional Elective - 4	Automobile Engg.	3	–	–	03	40	60	100	3
3	Project	18AUP85	Project Work Phase - 2	Automobile Engg.	–	–	2	03	40	60	100	8
4	Seminar	18AUS84	Technical Seminar	Automobile Engg.	–	–	2	03	100	–	100	1
5	Internship	18AUI85	Internship	Completed during the vacation's of VI and VII semesters and for VII and VIII semesters.)				03	40	60	100	3
<b>TOTAL</b>					<b>06</b>	<b>–</b>	<b>04</b>	<b>15</b>	<b>260</b>	<b>240</b>	<b>500</b>	<b>18</b>
Notes: PCC: Professional Core, PEC: Professional Elective.												
<b>Professional Electives - 4</b>												
Course code under 18AU82X		Course Title										
18AU821		Mechanical Vibrations										
18AU822		Advanced I. C. Engines										
18AU823		Electric and Hybrid Vehicle										
<b>Project Work</b>												
<b>CIE procedure for Project Work Phase - 2:</b>												
(i) <b>Single discipline:</b> The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.												
(ii) <b>Interdisciplinary:</b> Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guides, if any, is desirable. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.												
<b>SEE for Project Work Phase - 2:</b>												
(i) <b>Single discipline:</b> Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.												
(ii) <b>Interdisciplinary:</b> Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student's belong to.												
<b>Internship:</b> Those, who have not pursued / completed the internship shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements.												
<b>AICTE activity Points:</b> In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the												





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MT

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)												
VIII 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	18MT81	Automotive Electronics & Hybrid Vehicles		4	--	--	03	40	60	100	3
2	PEC	18MT82X	Professional Elective - 4		3	--	--	03	40	60	100	3
3	Project	18MTP83	Project Work		--	--	2	03	40	60	100	8
4	Seminar	18MTS84	Technical Seminar		--	--	2	03	100	--	100	1
5	Internship	18MT85	Internship	Completed during the vacation/s of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
<b>TOTAL</b>					<b>06</b>	<b>--</b>	<b>04</b>	<b>15</b>	<b>260</b>	<b>240</b>	<b>500</b>	<b>18</b>
<b>Note:</b> PCC: Professional Core, PEC: Professional Elective.												
<b>Professional Electives - 4</b>												
<b>Course code under 18XX82X</b>		<b>Course Title</b>										
18 MT821		Operation Research.										
18 MT822		Communication system										
18 MT823		Digital Control System										
18 MT824		Management Information Systems										
18 MT825		Radar Engineering										
<b>Project Work</b>												
<b>CIE procedure for Project Work Phase - 2:</b>												
(i) <b>Single discipline:</b> The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.												
The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.												
(ii) <b>Interdisciplinary:</b> Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable.												
The CIE marks awarded for the project work phase -2 shall be based on the evaluation of project work phase -2 Report, project presentation skill												



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**2021-22**

**PG**

**CSE**

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examination – 2018-19										
M.Tech COMPUTER SCIENCE AND ENGINEERING (SCS)										
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)										
III SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18SCS31	Machine Learning Techniques	04	--	03	40	60	100	4
2	PEC	18SCS32X	Professional elective4	04	--	03	40	60	100	4
3	PEC	18SCS33X	Professional elective 5	04	--	03	40	60	100	4
4	Project	18SCS34	Evaluation of Project phase -I	--	02	--	100	--	100	2
5	Intenship	18SCS135	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		03	40	60	100	6
<b>TOTAL</b>				12	02	12	260	240	500	20
<b>Note: PCC: Professional core, PEC: Professional Elective.</b>										
<b>Professional elective 4</b>				<b>Professional elective 5</b>						
<b>Course Code under 18SCS32X</b>	<b>Course title</b>			<b>Course Code under 18SCS33X</b>	<b>Course title</b>					
18SCS321	Embedded Computing Systems			18SCS331	Application And Web Security					
18SCS322	Information and Network Security			18SCS332	Software Project Planning & Management					
18SCS323	Wireless Networks & Mobile Computing			18SCS333	Natural Language Processing and Text Mining					
18SCS324	Enterprise Application Programming			18SCS334	Cyber Security And Cyber Law					
<b>Note:</b>										
1. <b>Project Phase-I:</b> Students in consultation with the guide/co-guide if any, shall pursue literature survey and complete the preliminary requirements of selected Project work. Each student shall prepare relevant introductory project document, and present a seminar. CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide if any, and a senior faculty of the department. The CIE marks awarded for project work phase -I, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25.										
SEE (University examination) shall be as per the University norms.										
2. <b>Internship:</b> Those, who have not pursued /completed the internship shall be declared as failed and have to complete during subsequent University examinations after satisfying the internship requirements.										



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examination – 2018-19										
M.Tech COMPUTER SCIENCE AND ENGINEERING (SCS)										
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)										
IV SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination			Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	
1	Project	18SCS41	Project work phase -2	--	04	03	40	60	100	20
<b>TOTAL</b>				--	<b>04</b>	<b>03</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>20</b>
<b>Note:</b>										
<b>I. Project Phase-2:</b>										
CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a Senior faculty of the department. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report subjected to plagiarism check, Project Presentation skill and Question and Answer session in the ratio 50:25:25.										
SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.										





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## EC-Digital Electronics and Communication

<b>VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI</b>											
<b>Scheme of Teaching and Examination - 2018-19</b>											
<b>M.Techin Communication Systems/ Digital Communication &amp; Networking/ Digital Communication Engineering/ Digital Electronics &amp; Communication Systems/ Digital Electronics &amp; Communication (ECS)</b>											
<b>Choice Based Credit System (CBCS)</b>											
<b>III SEMESTER</b>											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits	
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks		
1	PCC	18ECS31	LTE 4G Broadband	04	--	03	40	60	100	4	
2	PEC	18XXX32X	Professional Elective 3	04	--	03	40	60	100	4	
3	PEC	18XXX33X	Professional Elective 4	04	--	03	40	60	100	4	
4	Project	18ECS34	Evaluation of Project phase -1	--	02	--	100	--	100	2	
5	Internship	18ECS35	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		03	40	60	100	6	
<b>TOTAL</b>				12	02	12	<b>260</b>	<b>240</b>	<b>500</b>	<b>20</b>	
<b>Note: PCC: Professional core, PEC: Professional Elective</b>											
<b>Professional Elective 3</b>						<b>Professional Elective 4</b>					
Course Code under 18XXX32X		Course title		Course Code under 18XXX33X		Course title					
18ECS321		Advances in Image Processing		18ECS331		RF and Microwave Circuit Design					
18ESP322		Array Signal Processing		18ESP332		Pattern Recognition & Machine Learning					
18ECS323		Real Time Systems		18ECS333		IoT					
<b>Note:</b>											
<p><b>1. Project Phase-1:</b> Students in consultation with the guide/co-guide if any, shall pursue literature survey and complete the preliminary requirements of selected Project work. Each student shall prepare relevant introductory project document, and present a seminar. CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide if any, and a senior faculty of the department. The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25. SEE (University examination) shall be as per the University norms.</p> <p><b>2. Internship:</b> Those, who have not pursued /completed the internship shall be declared as failed and have to</p>											



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examination - 2018-19										
M.Tech in Communication Systems/ Digital Communication & Networking/ Digital Communication Engineering/ Digital Electronics & Communication Systems/ Digital Electronics & Communication (ECS)										
Choice Based Credit System (CBCS)										
IV SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination			Credits	
				Theory	Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks Viva voce		Total Marks
1	Project	18ECS41	Project work Phase -2	--	04	03	40	60	100	20
<b>TOTAL</b>				--	<b>04</b>	<b>03</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>20</b>
<b>Note:</b>										
<b>1. Project Phase-2:</b>										
CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a Senior faculty of the department. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report subjected to plagiarism check, Project Presentation skill and Question and Answer session in the ratio 50:25:25.										
SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.										



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## EC-VLSI Design & Embedded Systems

<b>VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI</b>											
<b>Scheme of Teaching and Examination: 2018-19</b>											
<b>M.Tech in VLSI Design &amp; Embedded Systems (EVE)</b>											
<b>Choice Based Credit System (CBCS)</b>											
<b>III SEMESTER</b>											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits	
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks		
1	PCC	18EVE31	CAD of Digital Systems	04	--	03	40	60	100	4	
2	PEC	18XXX32X	Professional Elective 3	04	--	03	40	60	100	4	
3	PEC	18XXX33X	Professional Elective 4	04	--	03	40	60	100	4	
4	Proj	18EVE34	Evaluation of Project Phase -I	--	02	--	100	--	100	2	
5	INT	18EVE35	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		03	40	60	100	6	
<b>TOTAL</b>				<b>12</b>	<b>02</b>	<b>12</b>	<b>260</b>	<b>240</b>	<b>500</b>	<b>20</b>	
<b>Note:- PCC: Professional Core Course, PEC: Professional Elective Course, Proj: Project, INT: Internship</b>											
<b>Professional Elective 3</b>				<b>Professional Elective 4</b>							
<b>Course Code Under 18XXX32X</b>	<b>Course Title</b>			<b>Course Code Under 18XXX33X</b>	<b>Course Title</b>						
18ECS321	Advances in Image Processing			18EVE331	VLSI for Signal Processing						
18EVE322	CMOS RF Circuit Design			18ESP332	Pattern Recognition & Machine Learning						
18EVE323	Embedded Linux System Design And Development			18ECS333	Internet of Things						
<b>Note:</b> <b>1. Project Phase-I:</b> Students in consultation with the guide/co-guide if any, shall pursue literature survey and complete the preliminary requirements of selected Project work. Each student shall prepare relevant introductory project document, and present a seminar. CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide and a senior faculty of the department. The CIE marks awarded for project work phase -I, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25. SEE (University examination) shall be as per the University norms.											





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Scheme of Teaching and Examination: 2018-19										
M.Tech in VLSI Design & Embedded Systems (EVE)										
Choice Based Credit System (CBCS)										
IV SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	
1	Proj	18EVE41	Project Work Phase -2	--	04	03	40	60	100	20
<b>TOTAL</b>				--	<b>04</b>	<b>03</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>20</b>
<b>Note: Proj: Project.</b>										
<b>Note:</b>										
<b>I. Project Phase-2:</b>										
CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any and a Senior faculty of the department. The CIE marks awarded for Project Work Phase -2, shall be based on the evaluation of Project Report subjected to plagiarism check, Project Presentation skill and Question and Answer session in the ratio 50:25:25.										
SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.										



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EEE

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examination – 2018 - 19										
M.Tech POWER ELECTRONICS (EPE)										
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)										
III SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination			Credits	
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks		Total Marks
1	PCC	18EPE31	HVDC power Transmission	04	--	03	40	60	100	4
2	PEC	18EPE32X	Professional elective 3	04	--	03	40	60	100	4
3	PEC	18EPE33X	Professional elective 4	04	--	03	40	60	100	4
4	Project	18EPE34	Project work phase -I	--	02	--	100	--	100	2
5	Internship	18EPE35	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		03	40	60	100	6
<b>TOTAL</b>				12	02	12	260	240	500	20
<b>Note: PCC: Professional core, PEC: Professional Elective.</b>										
<b>Professional elective 3</b>					<b>Professional elective 4</b>					
<b>Course Code under 18EPE32X</b>	<b>Course title</b>			<b>Course Code under 18EPE33X</b>	<b>Course title</b>					
18EPE321	MPPT in Solar Systems			18EPE331	Advanced Control Systems					
18EPE322	EMC in Power Electronics			18EPE332	Power Quality Problems and Mitigation					
18EPE323	Multilevel Converters for Industrial Applications			18EPE333	Multi-Terminal DC Grids					



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examination – 2018 - 19										
M.Tech POWER ELECTRONICS (EPE)										
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)										
IV SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks Viva-voce	Total Marks	
1	Project	18EPE41	Project work phase -2	--	04	03	40	60	100	20
<b>TOTAL</b>				--	<b>04</b>	<b>03</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>20</b>
<b>Note:</b> <b>I. Project Phase-2:</b> CIE marks shall be awarded by a committee comprising of HoD as Chairperson, Guide/co-guide, if any, and a Senior faculty of the department. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report subjected to plagiarism check, Project Presentation skill and Question and Answer session in the ratio 50:25:25. SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.										





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CV

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examination – 2018 - 19										
M.Tech Name of the programme (CSE)										
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)										
III SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination			Credits	
				Theory	Practical/ Field work/ Assignment	Duration in hours	OE Marks	SEE Marks		Total Marks
1	PCC	18CSE31	Design of Concrete Bridges	04	--	03	40	60	100	4
2	PEC	18CSE32X	Professional elective 3	04	--	03	40	60	100	4
3	PEC	18CSE33X	Professional elective 4	04	--	03	40	60	100	4
4	Project	18CSE34	Evaluation of Project phase -I	--	02	--	100	--	100	2
5	INT	18CSE35	Internship	(Completed during the intervening vacation of I and II semesters and for II and III semesters.)		03	40	60	100	6
<b>TOTAL</b>				12	02	12	260	240	500	20
Note: PCC: Professional core, PEC: Professional Elective.										
<b>Professional elective 3</b>					<b>Professional elective 4</b>					
Course Code under 18CSE32X	Course title			Course Code under 18CSE33X	Course title					
18CSE321	Design Concepts of Substructures			18CSE331	Fracture Mechanics applied to concrete					
18CSE322	Repair and Rehabilitation of Structures			18CSE332	Design of Masonry Structures					
18CSE323	Theory of Plates and Shells			18CSE333	Design of Formwork					
18CSE324	Optimization Techniques			18CSE334	Composite materials					



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M.Tech Name of the programme (CSE)										
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)										
IV SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work/ Assignment	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	
1	Project	18CSE41	Project work phase -2	--	04	03	40	60	100	20
<b>TOTAL</b>				--	<b>04</b>	<b>03</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>20</b>
<b>Note:</b>										
<b>1. Project Phase-2:</b>										
CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a Senior faculty of the department. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report subjected to plagiarism check, Project Presentation skill and Question and Answer session in the ratio 50:25:25.										
SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.										



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**MBA**

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					
Subject Code	Title of the Subject	Subject Code	Title of the Subject	Subject Code	Title of the Subject
20MBA301	Emerging Exponential Technologies	20MBA301	Emerging Exponential Technologies	20MBA301	Emerging Exponential Technologies
20MBA302	Technology & Operational Strategy	20MBA302	Technology & Operational Strategy	20MBA302	Technology & Operational Strategy
Specialisation Courses					
Marketing Professional Elective Courses		Finance Professional Elective Courses		Human Professional Elective Courses	
Subject Code	Title of the Subject	Subject Code	Title of the Subject	Subject Code	Title of the Subject
20MBAMM303	Services Marketing	20MBAFM 303	Investment Management	20MBAHR303	Recruitment & Selection
20MBAMM304	Marketing Research & Analytics	20MBAFM304	Direct Taxation	20MBAHR304	Human Resource Analytics
20MBAMM305	Consumer Behaviour	20MBAFM305	Banking and Financial Services	20MBAHR305	Industrial Relations and Labour Laws
20MBAMM306	Retail Management	20MBAFM306	Advanced Financial Management	20MBAHR306	Compensation & Reward System
20MBAIN307	Internship	20MBAIN307	Internship	20MBAIN307	Internship





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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)					
IV SEMESTER (Specialisation Courses)					
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
20MBAMM401	B2B Marketing Management	20MBAFM401	Risk Management and Insurance	20MBAHR401	Organizational Leadership
20MBAMM402	Logistics and Supply Chain Management	20MBAFM402	Financial Derivatives	20MBAHR402	Personal Growth & Interpersonal Effectiveness
20MBAMM403	Digital Marketing Management	20MBAFM403	Indirect Taxation	20MBAHR403	International Human Resource Management
20MBAMM404	Strategic Brand Management	20MBAFM404	Mergers, Acquisitions & Corporate Restructuring	20MBAHR404	Organization Change and Development
20MBAMM405	Agri Business Marketing	20MBAFM405	Corporate Valuation	20MBAHR405	Human Recourse Audit
20MBAMM406	International Marketing Management	20MBAFM406	International Financial Management	20MBAHR406	Management Consulting for Business Excellence
20MBAPR407	Project Report	20MBAPR407	Project Report	20MBAPR407	Project Report



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**MCA**



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
CHOICE BASED CREDIT SYSTEM (CBCS)  
SCHEME OF TEACHING AND EXAMINATION 2018 - 19 Onwards  
Master of Computer Applications (MCA)**

**VI SEMESTER**

Sl No	Course Code	Title	Teaching Department	Teaching Hours/Week			Examination			Credits	
				Theory	Practical	Tutorial	Duration in hours	SEE Marks	CIE Marks		Total Marks
1	ISMCA1	Internship	MCA	-	-	-	-	100	100	4	
2	ISMCA2	Scripture	MCA	-	-	-	-	100	100	2	
3	ISMCA3	Major Project	MCA	-	-	-	03	40	40	100	10
<b>TOTAL</b>								<b>40</b>	<b>240</b>	<b>300</b>	<b>22</b>

VISVESVARAYA TECHNOLOGICAL UNIVERSITY Scheme of Teaching and Examination <b>Master of Computer Applications</b> Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme											
SEMESTER-IV											
S.No	Course Type	Course Code	Title	Teaching Hours/Week			Examination			Credits	
				Lecture(L)	Tutorial(T)	Practical(P)/Seminar	Duration in hours	SEE Marks	CIE Marks		Total Marks
1	POC	20MCA11	Advances in Web Technologies	02	02	-	3	60	40	100	02
2	POC	20MCA12	Programming using C#	02	02	-	03	60	40	100	02
3	POC	20MCA13	Industry Internship [ 4 weeks in vacation of 3 <sup>rd</sup> sem.]	-	-	-	-	-	100	100	02
4	POC	20MCA14	Project work Phase 2 (During 4 <sup>th</sup> Semester- min. of 4 Months)	-	-	02	03	60	40	100	20
<b>Total</b>				<b>4</b>	<b>4</b>	<b>02</b>	<b>09</b>	<b>180</b>	<b>220</b>	<b>400</b>	<b>26</b>
<b>Internship:</b> All the students have to undergo mandatory internship of 4 weeks during the vacation of III 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 as fail in internship course and have to complete the same during the subsequent semester. After satisfying the internship requirements the degree will be awarded. However, student can carry out 4 <sup>th</sup> semester project without completing the internship.											
<b>Project:</b> The candidate should carry out the project in any industry or R&D institution or educational institution under a guide/co-guide. The candidate has to present the work carried out before the examiners during the University examination. The work out carried out should be free from plagiarism. The											



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**2021-22**

**Mini-Project**

**CSE**

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)											
VI 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	SIE Marks		Total Marks
				L	T	P					
1	PCC 18CS61	System Software and Compilers	CS / IS	3	2	–	03	40	60	100	4
2	PCC 18CS62	Computer Graphics and Visualization	CS / IS	3	2	–	03	40	60	100	4
3	PCC 18CS63	Web Technology and its applications	CS / IS	3	2	–	03	40	60	100	4
4	PEC 18CS64X	Professional Elective -I	CS / IS	3	–	–	03	40	60	100	3
5	OEC 18CS65X	Open Elective –A	CS / IS	3	–	–	03	40	60	100	3
6	PCC 18CSL66	System Software Laboratory	CS / IS	–	2	2	03	40	60	100	2
7	PCC 18CSL67	Computer Graphics Laboratory with mini project	CS / IS	–	2	2	03	40	60	100	2
8	MP 18CSMP68	Mobile Application Development	CS / IS	–	–	2	03	40	60	100	2
9	INT	–	Internship	(To be carried out during the intervening vacations of VI and VII semester)			–	–	–	–	–
<b>TOTAL</b>				<b>15</b>	<b>10</b>	<b>06</b>	<b>24</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>24</b>

**Note:** PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project, INT: Internship.





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ISE

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)												
VI 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	PCC	18IS61	File Structures	CS / IS	3	2	—	03	40	60	100	4
2	PCC	18IS62	Software Testing	CS / IS	3	2	—	03	40	60	100	4
3	PCC	18CS63	Web Technology and its applications	CS / IS	3	2	—	03	40	60	100	4
4	PEC	18CS64N	Professional Elective -I	CS / IS	3	—	—	03	40	60	100	3
5	OEC	18CS65X	Open Elective -A	CS / IS	3	—	—	03	40	60	100	3
6	PCC	18ISL66	Software Testing Laboratory	CS / IS	—	2	2	03	40	60	100	2
7	PCC	18ISL67	File Structures Laboratory with mini project	CS / IS	—	2	2	03	40	60	100	2
8	MP	18ISMP68	Mobile Application Development	CS / IS	—	—	2	03	40	60	100	2
9	INT	—	Internship	(To be carried out during the intervening vacations of VI and VII semesters)				—	—	—	—	—
<b>TOTAL</b>					<b>15</b>	<b>10</b>	<b>06</b>	<b>24</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>24</b>

Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project, INT: Internship.

ECE

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												
VI 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	PCC	18EC61	Digital Communication	EE	3	2	—	03	40	60	100	4
2	PCC	18EC62	Embedded Systems	EE	3	2	—	03	40	60	100	4
3	PCC	18EC63	Microprocessor and Assembly	EE	3	2	—	03	40	60	100	4
4	PEC	18EN64X	Professional Elective -I	EE	3	—	—	03	40	60	100	3
5	OEC	18EN65X	Open Elective -A	EE	3	—	—	03	40	60	100	3
6	PCC	18EC66	Embedded Systems Laboratory	EE	—	2	2	03	40	60	100	2
7	PCC	18EC67	Communication Laboratory	EE	—	2	2	03	40	60	100	2
8	MP	18EC68	Mini-project	EE	—	—	2	03	40	60	100	2
9	Internship	—	Internship	(To be carried out during the vacations of VI and VII semesters and/or VII and VIII semesters)				—	—	—	—	—
<b>TOTAL</b>					<b>15</b>	<b>10</b>	<b>06</b>	<b>24</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>24</b>

Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.

Professional Elective -I	
Course code under 18EN64X	Course Title
18EC641	Operating Systems
18EC642	Artificial Neural Networks
18EC643	Data Structures using C++
18EC644	Digital System Design Using Verilog
18EC645	Networks and
18EC646	Python Application Programming



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EEE

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)												
VI 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	18 EE61	Control Systems	EEE	3	2	-	03	40	60	100	4
2	PCC	18 EE62	Power System Analysis – I	EEE	3	2	--	03	40	60	100	4
3	PCC	18 EE63	Digital Signal Processing	EEE	3	2	--	03	40	60	100	4
4	PEC	18 EE64X	Professional Elective -I	EEE	3	--	--	03	40	60	100	3
5	OEC	18 EE65X	Open Elective -A	EEE	3	--	--	03	40	60	100	3
6	PCC	18 EE166	Control System Laboratory	EEE	--	2	2	03	40	60	100	2
7	PCC	18 EE167	Digital Signal Processing Laboratory	EEE	--	2	2	03	40	60	100	2
8	MP	18 EE6P68	Mini-project		--	--	2	03	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.								
<b>TOTAL</b>					<b>15</b>	<b>10</b>	<b>06</b>	<b>24</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>24</b>

Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.

ME

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)												
VI 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	18ME61	Finite Element Methods		3	2	--	03	40	60	100	4
2	PCC	18ME62	Design of Machine Elements II		3	2	--	03	40	60	100	4
3	PCC	18ME63	Heat Transfer		3	2	--	03	40	60	100	4
4	PEC	18ME64X	Professional Elective -I		3	--	--	03	40	60	100	3
5	OEC	18ME65X	Open Elective -A		3	--	--	03	40	60	100	3
6	PCC	18ME166	Computer Aided Modelling and Analysis Lab		--	2	2	03	40	60	100	2
7	PCC	18ME167	Heat Transfer Lab		--	2	2	03	40	60	100	2
8	MP	18ME6P68	Mini-project		--	--	2	03	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.								
<b>TOTAL</b>					<b>15</b>	<b>10</b>	<b>06</b>	<b>24</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>24</b>

Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.



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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												
VI SEMESTER												
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours/Week			Examination			Credits	
					Theory	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	PCC	18BT61	Process Control & Automation	Chemical	4	1	—	03	40	60	100	4
2	PCC	18BT62	Bioprocess Equipment Design & CAED	Chemical	4	2	—	04	40	60	100	4
3	PCC	18BT63	Biostatistics	Biotech	4	—	—	03	40	60	100	4
4	PEC	18BT64X	Professional Elective -I	Biotech	2	—	—	03	40	60	100	3
5	OEC	18BT65X	Open Elective -A	Biotech	2	—	—	03	40	60	100	3
6	PCC	18BT66	Process Control & Automation Laboratory	Chemical	—	2	2	03	40	60	100	2
7	PCC	18BT67	Biostatistics Laboratory	Biotech	—	2	2	03	40	60	100	2
8	MP	18BT68	Mini-project	—	—	—	2	03	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.						—	
<b>TOTAL</b>					<b>18</b>	<b>08</b>	<b>06</b>	<b>25</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>24</b>

**Note:** PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.

**Mini-project work:**  
Based on the ability/abilities of the student/s and recommendations of the faculty, a single discipline or a multidisciplinary Mini-project can be assigned to an individual student or to a group having not more than 4 students.

**CIE procedure for Mini-project:**  
(i) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.  
The CIE marks awarded for the Mini-project work, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college.  
The CIE marks awarded for the Mini-project, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

MT

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)												
VI SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours/Week			Examination			Credits	
					Theory	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P					
1	PCC	18 MT61	PLC & SCADA	—	2	—	03	40	60	100	4	
2	PCC	18 MT62	Power Electronics	—	2	—	03	40	60	100	4	
3	PCC	18 MT63	Computer Aided Machine Drawing	—	0	4	03	40	60	100	4	
4	PEC	18 MT64X	Professional Elective -I	—	—	—	03	40	60	100	3	
5	OEC	18XX65X	Open Elective -A	—	—	—	03	40	60	100	3	
6	PCC	18 MTL66	PLC and SCADA- Laboratory	—	2	2	03	40	60	100	2	
7	PCC	18 MTL67	Power electronics - Laboratory	—	2	2	03	40	60	100	2	
8	MP	18MTM_P68	Mini-project	—	—	2	03	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.						—	
<b>TOTAL</b>					<b>13</b>	<b>08</b>	<b>10</b>	<b>24</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>24</b>

**Note:** PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.





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**MCA**



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**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**SCHEME OF TEACHING AND EXAMINATION 2018 - 19 Onwards**  
**Master of Computer Applications (MCA)**

**V SEMESTER**

Sl. No	Course Code	Title	Teaching Department	Teaching Hours/Week			Examination				Credits
				Theory (L)	Practical (P)	Tutorial (T)	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	18MCA51	Programming using C++	MCA	03	-	-	03	40	40	100	01
2	18MCA52	Mobile Applications	MCA	03	-	-	03	40	40	100	01
3	18MCA53	Machine Learning	MCA	03	-	-	03	40	40	100	01
4	18MCA54N	Elective IV	MCA	03	-	-	03	40	40	100	01
5	18MCA55N	Elective V	MCA	03	-	-	03	40	40	100	01
6	18MCA56	OS and Lab	MCA	-	03	03	03	40	40	100	02
7	18MCA57	Mobile Applications Lab	MCA	-	03	03	03	40	40	100	02
8	18MCA58	Mini Project	MCA	-	04	02	03	40	40	100	03
<b>TOTAL</b>				Theory: 15hours Practical: 10 hours Tutorial Instruction: 04hours				<b>400</b>	<b>320</b>	<b>800</b>	<b>21</b>

Elective IV		Elective V	
18MCA51	Artificial Systems	18MCA51	System Simulation and Modeling
18MCA52	Computer Graphics	18MCA52	Principles of User Interface Design
18MCA53	Image Processing	18MCA53	Software Architecture
18MCA54	Parallel Computing	18MCA54	Storage Area Networks



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Ph: 080-61754601/602, Fax: 080 - 25730551  
E-mail: engprincipal@theoxford.edu Web: www.theoxfordengg.org

**2021-22**

**Lab with Mini-Project**

**CSE**

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/ Branding	Duration in hours	CIV. 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
<b>TOTAL</b>					<b>18</b>	<b>10</b>	<b>04</b>	<b>26</b>	<b>360</b>	<b>540</b>	<b>900</b>	<b>25</b>
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.												



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

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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)												
VI 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	18CS61	System Software and Compilers	CS / IS	3	2	–	03	40	60	100	4
2	PCC	18CS62	Computer Graphics and Visualization	CS / IS	3	2	–	03	40	60	100	4
3	PCC	18CS63	Web Technology and its applications	CS / IS	3	2	–	03	40	60	100	4
4	PEC	18CS64X	Professional Elective -I	CS / IS	3	–	–	03	40	60	100	3
5	OEC	18CS65X	Open Elective –A	CS / IS	3	–	–	03	40	60	100	3
6	PCC	18CSL66	System Software Laboratory	CS / IS	–	2	2	03	40	60	100	2
7	PCC	18CSL67	Computer Graphics Laboratory with mini project	CS / IS	–	2	2	03	40	60	100	2
8	MP	18CSMP68	Mobile Application Development	CS / IS	–	–	2	03	40	60	100	2
9	INT	–	Internship	(To be carried out during the intervening vacations of VI and VII semester.)				–	–	–	–	–
<b>TOTAL</b>					<b>15</b>	<b>10</b>	<b>06</b>	<b>24</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>24</b>

**Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project, INT: Internship.**





**CHILDREN'S EDUCATION SOCIETY (Regd.)  
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ISE

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 Lectures	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	1	-	03	40	60	100	3
2	PCC	18CS52	Computer Networks and Security	CS / IS	3	1	-	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.

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)												
VI 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	PCC	18IS61	File Structures	CS / IS	3	2	-	03	40	60	100	4
2	PCC	18IS62	Software Testing	CS / IS	3	2	-	03	40	60	100	4
3	PCC	18CS63	Web Technology and its applications	CS / IS	3	2	-	03	40	60	100	4
4	PEC	18CS64N	Professional Elective -I	CS / IS	3	-	-	03	40	60	100	3
5	OE	18CS65X	Open Elective -A	CS / IS	3	-	-	03	40	60	100	3
6	PCC	18ISL66	Software Testing Laboratory	CS / IS	-	2	2	03	40	60	100	2
7	PCC	18ISL67	File Structures Laboratory with mini project	CS / IS	-	2	2	03	40	60	100	2
8	MP	18ISMP68	Mobile Application Development	CS / IS	-	-	2	03	40	60	100	2
9	INT	-	Internship	(To be carried out during the intervening vacations of VI and VII semesters)	-	-	-	-	-	-	-	-
TOTAL					15	10	06	24	320	480	800	24

Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project, INT: Internship.



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**MCA**

VISVESVARAYA TECHNOLOGICAL UNIVERSITY Scheme of Teaching and Examination <b>Master of Computer Applications</b> Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme											
SEMESTER-III											
S.No	Course Type	Course Code	Title	Teaching Hours/Week			Examination				Credits
				L	P	T/SQA	Theory Marks	SEE Marks	CE Marks	Total Marks	
1	PCC	20MCA31	Data Analytics using Python	04	-	-	03	60	40	100	04
2	PCC	20MCA32	IoT	04	-	-	03	60	40	100	04
3	PCC	20MCA33	Advances in Java	04	-	-	03	60	40	100	04
4	PEC	20MCA34X	Elective-II	03	-	-	03	60	40	100	03
5	PEC	20MCA35X	Elective-III	03	-	-	03	60	40	100	03
6	PCC	20MCA36	Data Analytics Lab with Mini-project	-	04	-	03	60	40	100	02
7	PCC	20MCA37	IoT Lab with Mini Project	-	04	-	03	60	40	100	02
8	PCC	20MCA38	Advances in Java Lab	-	04	-	03	60	40	100	02
<b>Total</b>				<b>18</b>	<b>12</b>	<b>-</b>	<b>24</b>	<b>480</b>	<b>320</b>	<b>800</b>	<b>24</b>
<b>Elective-III</b>				<b>Elective-IV</b>							
20MCA341	Block chain Technology			20MCA351	Deep Learning						
20MCA342	Cloud Computing			20MCA352	Big data Analytics						
20MCA343	Digital Marketing			20MCA353	Wireless Ad Hoc Networks						
20MCA344	Software Testing			20MCA354	Software Project Management						
20MCA345	NoSQL			20MCA355	Software Defined Networks						

VISVESVARAYA TECHNOLOGICAL UNIVERSITY Scheme of Teaching and Examination <b>Master of Computer Applications</b> Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS) Scheme											
SEMESTER-II											
S.No	Course Type	Course Code	Title	Teaching Hours/Week			Examination				Credits
				L	P	T/SQA	Theory Marks	SEE Marks	CE Marks	Total Marks	
1	PCC	20MCA21	Database Management System	03	-	-	03	60	40	100	03
2	PCC	20MCA22	Object Oriented Programming with Java	03	-	-	03	60	40	100	03
3	PCC	20MCA23	Web Technologies	04	-	-	03	60	40	100	04
4	PCC	20MCA24	Software Engineering	03	-	02	03	60	40	100	04
5	PEC	20MCA25X	Elective-1	03	-	-	03	60	40	100	03
6	PEC	20MCA26X	Elective-2	03	-	-	03	60	40	100	03
7	PCC	20MCA27	DBMS Lab	-	04	-	03	60	40	100	02
8	PCC	20MCA28	Java Programming Lab	-	04	-	03	60	40	100	02
9	PCC	20MCA29	Web Technologies Lab with Mini-project	-	04	-	03	60	40	100	02
<b>Total</b>				<b>19</b>	<b>12</b>	<b>02</b>	<b>27</b>	<b>540</b>	<b>360</b>	<b>900</b>	<b>26</b>

<b>Elective-I</b>		<b>Elective-II</b>	
20MCA251	Cybersecurity	20MCA261	Cryptography and Network Security
20MCA252	Data Mining and Business Intelligence	20MCA262	Artificial Intelligence
20MCA253	Enterprise Resource Planning	20MCA263	Mobile Application Development
20MCA254	User Interface Design	20MCA264	Distributed operating System
20MCA255	Optimization Techniques	20MCA265	Natural Language Processing



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## PROJECT WORK/FIELD WORK/INTERNSHIP REPORT FOR THE YEAR

2021-22

### INDEX

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1	Summary on Document showing project work, Internship /Field visit prescribed by affiliating university curriculum	2
2021-22		
2	Memorandum of Understanding - Highlighting Project Work, Internship/Field Visit	3-64

*for* 

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





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## **Summary on Document showing project work, Internship /Field visit prescribed by affiliating university curriculum**

To integrate project work, Internship /Field visit, 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.

### **Project Work**

Project-based learning has proven to be one of the most effective ways to engage students and provide a practical application for what they're learning. Project-based learning not only provides opportunities for students to collaborate or drive their own learning, but it also teaches them skills such as problem solving, and helps to develop additional skills integral to their future, such as critical thinking and time management. And maybe more importantly, it provides students with an opportunity to create authentic projects which are meaningful to society. Students have the chance to pursue their own interests and as a result, opportunities for learning for students and teachers are tremendous. Benefits of project-based learning: Collaboration, Problem Solving, Creativity, In-Depth Understanding, Self-Confidence, Critical Thinking, Perseverance, Project Management, Curiosity, Empowerment.

### **Internship**

An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest. An internship gives a student the opportunity for career exploration and development, and to learn new skills.

### **Field visit**

A field trip or excursion is a journey by the college students to a place away from the normal college environment. Field trips can be educationally and socially engaging additions to students. The objective of all field trips in the college is to expose students to various parts of their community, facilitate connections between students and others, and help students understand themselves as members of their local community. The lessons that follow are general ideas; research specific destinations and activities in or near your community. Social field trips are also beneficial to building camaraderie amongst participants and for having fun!



# Memorandum of Understanding

Between

**Prinston Smart Engineers**  
Vidnuvardhan statue road, Begur road,  
Bengaluru, Karnataka 560 068.

and

**The Department of Information Science and Engineering**  
The Oxford College of Engineering,  
10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068.

The Memorandum of Understanding is made between Department of Information Science & Engineering, The Oxford College of Engineering, Bangalore and Prinston Smart Engineers, to promote the cooperation in Workshops, Conferences and Seminars/webinars would be mutually beneficial. The areas of cooperation may include, subject to mutual consent, any desirable and feasible activity that would further the goals of each institution. Such interaction may include cooperation in a variety of joint academic and educational activities such as:

- To conduct the conferences, seminars/webinars workshops and internships.
- Should accommodate the UG students in such a number that industry deems convenient to it for the purpose of imparting industrial training and internships.

## 1. SCOPE OF MOU

This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- a) Mutual training, knowledge sharing, project consultancy and R&D activities of mutual benefit.

- b) Support development of employability enhancing skills and traits that lead to overall success of students, teachers and their institution.
- c) Promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- d) Create Placements engagement and development opportunities for students through programmes, lectures, seminars, conferences, events, study trips, internships.

## 2. KEY OPERATION AREAS

The Scope of the MOU can be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately between both parties through a written notification.

- a) Mutual knowledge exchange programs between Princeton Engineers and TOCE at faculty and research scholars levels.
- b) Joint project consultancy at prorata basis to handle customers' projects.
- c) Organizing International and National conferences with joint contributions for knowledge sharing and R&D activities.
- d) Organizing workshops and seminars/FDPs for specific skill building.
- e) Focused training to students to bridge the gap between Academia & Industry support for placement of students.

## 3. STRONG POINTS OF TOCE

- a) Enrolment of students for various technical courses.
- b) Provisioning of the required infrastructure to enable the training and related activities:
  - i. Classrooms/Auditoriums.
  - ii. Audio/Visual Systems (Project & Loudspeaker Systems or Individual PCs & Headsets).
  - iii. Qualified faculty members for consultancy projects and research activities.
  - iv. Good laboratories for innovative activities.
  - v. Stable high speed internet connectivity to enable live online classes without any technical glitches.



## GENERAL CONDITIONS

- a) Each party will establish a single point of contact who will serve as the principal interface for his/her respective organization.
- b) Either party may cancel this MOU and any extension thereof by providing the other party with 30-day notice of cancellation. Such cancellation notice shall be sent by certified mail and will be effective 30 days from the date sent. Cancellation of this agreement will have no effect on approved project agreements.
- c) Any form of financial commitment in the form of payments, discounts, vouchers, IPRs, patents etc. to be agreed separately between both parties through a written notification

## 5. EFFECTIVE DATE

- a) This MOU will be effective upon the date of the final signature of this document for a period of three year with one-year extensions available upon written mutual agreement. Extensions become effective upon final signature of the appropriate parties.
- b) This MOU will lapse if there is no activity or engagement between both the parties for a continuous period of 12 months from the start of the agreement date and each anniversary thereon.

## 6. AUTHORISED SIGNATORIES

**Prinston Smart Engineers,**  
Vishnuvardhan statue road, Begur road,  
Bengaluru, Karnataka 560 068.

1. Mr. Asif Akhter, Chief Executive Officer & Founder  
Email: prinston.smart@gmail.com  
Telephone: +91- 9513106196

**Department of Information Science and Engineering**  
The Oxford College of Engineering,  
10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

1. Dr. R. Kanagavalli, Professor & Head  
Email: engho@ise@theoxford.edu  
Telephone: 9900300877

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

A letter of agreement will include such items as:

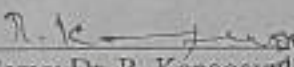
1. Elaboration of the responsibilities of each institution for the agreed upon activity. Scheduled for specific activity
2. Any other terms deemed necessary for the efficient management of the activity.

#### Signatures of concerning officials



Date:

Name: Mr. Asif Akhter  
Organization: M/s. Prinston Smart Engineers  
Designation: Chief Executive Officer

  
Name: Dr. R. Kanagavalli  
Organization: ISE, The Oxford College of Engineering  
Designation: Professor & Head

Date: 25/9/2021

TIN/GST number of Industry: 07AVPPA9721Q2ZV

# Memorandum of Understanding

Between

**FANTASY TECHNOLOGIES**  
Shop 25,26 R.N. GOLI CELEBRATION COMPLEX  
ABOVE SBI BANK, ASHOK Chowk - Solapur 413006

and

**The Department of Information Science and Engineering**  
The Oxford College of Engineering,  
10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068.

This Memorandum of Understanding (MOU) between the Fantasy Technologies, and Department of Information Science and Engineering of The Oxford College of Engineering, Bengaluru details the modalities and general conditions regarding collaboration between both the partners

## 1. SCOPE OF MOU

This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- a) Mutual training, knowledge sharing, project consultancy and R&D activities of mutual benefit.
- b) Support development of employability enhancing skills and traits that lead to overall success of students, teachers and their institution.
- c) Promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- d) Create Placements engagement and development opportunities for students through programmes, lectures, seminars, conferences, events, study trips, internships.





## 2. KEY OPERATION AREAS

The Scope of the MOU can be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately between both parties through a written notification.

- a) Mutual knowledge exchange programs between Fantasy Technologies and TOCE at faculty and research scholar's levels.
- b) Joint project consultancy at prorata basis to handle customers' projects.
- c) Organizing International and National conferences with joint contributions for knowledge sharing and R&D activities.
- d) Organizing workshops and seminars/FDPs for specific skill building.
- e) Focused training to students to bridge the gap between Academia & Industry support for placement of students.

## 3. ACTIVITIES AND OBLIGATIONS OF FANTASY TECHNOLOGIES

Fantasy Technologies deliver one of the industry's broadest portfolios of IT TRAINING INDUSTRY. We have tieups with various academic institutions and industries for catering training programs of technologies. Our BPO/KPO business process outsourcing services to clients in the manufacturing, education services, healthcare, communications, energy, transportation, consumer & retail industries, and to Governments around the World.



IT TRAINING  
BPO/KPO Consultancy  
Software Development  
Outsourcing Solutions  
Government Contract Solutions

4. STRONG POINTS OF TOCE

- a) Enrolment of students for various technical courses.
- b) Provisioning of the required infrastructure to enable the training and related activities:
  - i. Classrooms/Auditoriums.
  - ii. Audio/Visual Systems (Project & Loudspeaker Systems or Individual PCs & Headsets).-
  - iii. Qualified faculty members for consultancy projects and research activities.
  - iv. Good laboratories for innovative activities.
  - v. Stable high speed internet connectivity to enable live online classes without any technical glitches.

5. GENERAL CONDITIONS

- a) Each party will establish a single point of contact who will serve as the principal interface for his/her respective organization.
- b) Either party may cancel this MOU and any extension thereof by providing the other party with 30-day notice of cancellation. Such cancellation notice shall be sent by certified mail and will be effective 30



days from the date sent. Cancellation of this agreement will have no effect on approved project agreements.

- c) Any form of financial commitment in the form of payments, discounts, vouchers, IPRs, patents etc. to be agreed separately between both parties through a written notification

#### 6. EFFECTIVE DATE

- a) This MOU will be effective upon the date of the final signature of this document for a period of three year with one-year extensions available upon written mutual agreement. Extensions become effective upon final signature of the appropriate parties.
- b) This MOU will lapse if there is no activity or engagement between both the parties for a continuous period of 12 months from the start of the agreement date and each anniversary thereon.

#### 7. AUTHORISED SIGNATORIES

**FANTASY TECHNOLOGIES**  
25,26 Shop R.N.Goli Celebration Complex  
Above SBI ,Ashok Chowk, Solapur-413006



Ms. Jyoti Tarange  
Founder Directo  
jyoti@fantasytech.in | jyotitarange@gmail.com  
9156541760 | 8788556981

Department of Information Science and Engineering  
The Oxford College of Engineering,  
10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

I. Dr. R. Kanagavalli, Professor & Head  
Email: enghodise@theoxford.edu  
Telephone: 9900300877

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of



agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

A letter of agreement will include such items as:

1. Elaboration of the responsibilities of each institution for the agreed upon activity. Scheduled for specific activity
2. Any other terms deemed necessary for the efficient management of the activity.

Signatures of concerning officials



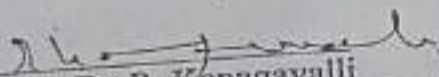
Date: 29/9/2021

### FANTASY TECHNOLOGIES

Ms. JYOTI TARANGE  
FOUNDER DIRECTOR

[jyoti@fantasytech.in](mailto:jyoti@fantasytech.in) | [jyotitarange@gmail.com](mailto:jyotitarange@gmail.com)  
9156541760 | 8788556981

Date: 29/9/2021

  
Name: Dr. R. Kanagavalli

Organization: ISE, The Oxford College of Engineering  
Designation: Professor & Head

Dr. R. KANAGAVALLI  
PROFESSOR & HEAD  
The Oxford College Of Engineering  
Bommanahalli, Hosur Main Road,  
Bangalore 560 056.

# Memorandum of Understanding

Between

**ADJ InfoTech Services PVT. LTD.**  
Veershalvya Nagar, Bharti Vidyapeeth, Solapur

and

The Department of Information Science and Engineering  
The Oxford College of Engineering,  
10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068.

This Memorandum of Understanding (MOU) between the ADJ InfoTech Services PVT LTD. and Department of Information Science and Engineering of The Oxford College of Engineering, Bengaluru details the modalities and general conditions regarding collaboration between both the partners

## 1. SCOPE OF MOU

This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- a) Mutual training, knowledge sharing, project consultancy and R&D activities of mutual benefit.
- b) Support development of employability enhancing skills and traits that lead to overall success of students, teachers and their institution.
- c) Promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- d) Create Placements, engagement and development opportunities for students through programmes, lectures, seminars, conferences, events, study trips, **internships**.



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## 2. KEY OPERATION AREAS

The Scope of the MOU can be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately between both parties through a written notification.

- a) Mutual knowledge exchange programs between ADJ InfoTech Services PVT LTD. and TOCE at faculty and research scholar's levels.
- b) Joint project consultancy at prorata basis to handle customers' projects.
- c) Organizing International and National conferences with joint contributions for knowledge sharing and R&D activities.
- d) Organizing workshops and seminars/FDPs for specific skill building.
- e) Focused training to students to bridge the gap between Academia & Industry support for placement of students.

## 3. ACTIVITIES AND OBLIGATIONS OF ADJ InfoTech Services PVT LTD.

ADJ INFOTECH deliver one of the industry's broadest portfolios of information technology and business process outsourcing services to clients in the manufacturing, education services, sports & entertainments, healthcare, communications, energy, transportation, consumer & retail industries, and to Governments around the World.

IT Consulting & Solution Center  
Management Consulting Center  
Business Consulting Center  
Outsourcing Solutions  
Government Contract Solutions.

Testing, Usability, Quality testing and user group testing





#### 4. STRONG POINTS OF TOCE

- a) Enrolment of students for various technical courses.
- b) Provisioning of the required infrastructure to enable the training and related activities:
  - i. Classrooms/Auditoriums.
  - ii. Audio/Visual Systems (Project & Loudspeaker Systems or Individual PCs & Headsets).
  - iii. Qualified faculty members for consultancy projects and research activities.
  - iv. Good laboratories for innovative activities.
  - v. Stable high speed internet connectivity to enable live online classes without any technical glitches.

#### 5. GENERAL CONDITIONS

- a) Each party will establish a single point of contact who will serve as the principal interface for his/her respective organization.
- b) Either party may cancel this MOU and any extension thereof by providing the other party with 30-day notice of cancellation. Such cancellation notice shall be sent by certified mail and will be effective 30 days from the date sent. Cancellation of this agreement will have no effect on approved project agreements.
- c) Any form of financial commitment in the form of payments, discounts, vouchers, IPRs, patents etc. to be agreed separately between both parties through a written notification



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## EFFECTIVE DATE

- a) This MOU will be effective upon the date of the final signature of this document for a period of three year with one-year extensions available upon written mutual agreement. Extensions become effective upon final signature of the appropriate parties.
- b) This MOU will lapse if there is no activity or engagement between both the parties for a continuous period of 12 months from the start of the agreement date and each anniversary thereon.

## 7. AUTHORISED SIGNATORIES

M/s A.D.J. INFOTECH SERVICES PVT. LTD.  
Veershiavy Nagar, Near Bharti Vidyapeeth.  
Solapur - 413004

Ms. Jyoti Thengale  
Executive Director

[jyoti@adjinfotech.com](mailto:jyoti@adjinfotech.com) | [jyotitarange@gmail.com](mailto:jyotitarange@gmail.com)  
9156541760 | 8788556981

Department of Information Science and Engineering  
The Oxford College of Engineering,  
10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

1. Dr. R. Kanagavalli, Professor & Head  
Email: [enghodise@theoxford.edu](mailto:enghodise@theoxford.edu)  
Telephone: 9900300877

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

A letter of agreement will include such items as:

1. Elaboration of the responsibilities of each institution for the agreed upon activity. Scheduled for specific activity



2. Any other terms deemed necessary for the efficient management of the activity.

Signatures of concerning officials

  
A.D.J. INFOTECH SERVICES PVT. LTD


Date: 29/9/2021

Ms. Jyoti Thengale  
Executive Director

[jyoti@adjinfotech.com](mailto:jyoti@adjinfotech.com) | [jyotithengale@gmail.com](mailto:jyotithengale@gmail.com)  
9156541760 | 8788556981

A.D.J. INFOTECH PVT LTD

DIRECTOR

  
Name: Dr. R. Kanagavalli  
Organization: ISE, The Oxford College of Engineering  
Designation: Professor & Head

Date: 29/9/2021

Dr. R. KANAGAVALLI  
PROFESSOR & HOD-ISE  
The Oxford College Of Engineering  
Bommanahalli, Hosur Main Road.  
Bangalore 560 068.



GSTIN: 11AAACV0344K1Z4  
REG: 11/03/2013

## Memorandum of Understanding

EFFECTIVE DATE: This MOU is executed on 20/05/2013

Between

PARTY 1: Department Of ECE, The Oxford College of Engineering, Bangalore and it is represented by Dr. Manjunath  
Dr. ECE Prof and Head - ECE and Principal Dr. N. Kannan.

And

PARTY 2: Yakairol Engineering Service Pvt Ltd, 11B-4/7, Door No: 15, 2<sup>nd</sup> Floor, Sangaiprou Mamang, Leikai, Imphal  
West Manipur-795001, and it is represented by Thokchom Sanju Singh

### DETAILS OF MOU:

1. OBJECTIVE: Industry Institution Interaction & Joint R&D

2. SCOPE OF WORK:

- To promote interest in the research activities of the institution.
- Carry out joint research and development to deepen the analysis and understanding of science and technology in the manufacturing sector.
- Perform workshops as and when required. Commercial would be discussed separately.

3. ROLES & RESPONSIBILITIES:

A. To strengthen research excellence at faculty, both graduate and undergraduate student levels.

B. To meet periodically to review and evaluate the work carried out and to work out new ideas for future cooperative agreements.

4. Terms and Conditions:

Yakairol Engineering Service Pvt Ltd will arrange/provide:

- Lab facilities such as testing, Fabrication and characterization for experimentation.
- Additional manpower, if required (but they will be in the roles of the company).

Oxford College of Engineering will arrange/provide:

- ◇ The Service faculty is an expert person in FBG Sensor for Biomedical Applications and she will be the main contact person for this R&D.
- ◇ The Oxford College of Engineering has agreed to provide the service of faculty members towards R&D / Lab visits/meetings/conferences and attending workshops/ in this R&D Project.
- ◇ This MOU shall be valid for a period of two-year from the Effective Date and can be terminated by a notice of six months by either party. As per the need, the MOU will be revised for a further duration with the same terms

### ADDRESS:

Yakairol Engineering Services Pvt. Ltd., 11B-4/7, Door No: 15, 2<sup>nd</sup> floor  
Sangaiprou Mamang Leikai, Imphal West, Near Indian Oil Pump, Same building  
Manipur-795001.

Email Id: [yakairolservices@gmail.com](mailto:yakairolservices@gmail.com), Office No: 03852455835, Mobile No: +91



- with conditions or mutually agreeable modifications.
- The MOU will be reviewed by the partnership committee members from time to time and may be amended with the consent of both parties and thereafter confirmed in writing.
- Both parties shall agree and acknowledge that no other rights are granted except as explicitly stated here within.
- Neither party shall transfer or assign its interests, obligations or rights in this agreement without the written consent of the party, provided that such consent will not be unreasonably withheld.
- Neither party shall be liable because of failure or delay in the performance of its obligation under this MOU if such failure or delay is caused by the Acts of God, Strikes, Lockouts or any other causes beyond its control and without its fault or negligence or mutual agreement.
- Any other arrangements or activities or commitments shall be made on mutually agreed terms.
- Neither party shall disclose confidential and proprietary details to an outsider(s), whatsoever.
- By its members, the institution shall try to contact or entertain the leads from the organization, either directly or indirectly. Non appearance from the scheduled program will not be entertained.

**5. Benefits:**

- Enriching the facilities and students in Automation and developing research interests among the same in terms of Students internships.

*P. Sharma*

Party 1: Applicant, Academia

*H. S. ...*

Party 2: Collaborator, Industry



Signature of Head of Institute

**ADDRESS:**

Yakairol Engineering Services Pvt. Ltd., 11B-4/7, Door No: 15, 2<sup>nd</sup> floor,  
Sangaiprou Mamang Leikai, Imphal West, Near Indian Oil Pump, Same building Apollo Tyres,  
Manipur-795001.

# MEMORANDUM OF UNDERSTANDING (MOU)

The Oxford College Of Engineering

Department Of Computer Science and Engineering and Prinston Smart Engineers, Bangalore



The Memorandum of Understanding is made between Department of Computer Science and Engineering, THE OXFORD COLLEGE OF ENGINEERING and PRINSTON SMART ENGINEERS, to promote the cooperation in Workshops, Conferences and Seminars would be mutually beneficial. The areas of cooperation may include, subject to mutual consent, any desirable and feasible activity that would further the goals of each institution. Such interaction may include cooperation in a variety of joint academic and educational activities such as:

- To conduct the conferences, seminars and workshops.
- Should accommodate the UG students in such a number that industry deems convenient to it for the purpose of imparting industrial training and internships.
- To give the placement opportunities to the students.

The parties anticipate that a number of these initiatives will occur during the period of this MOU i.e (Jan -2021 to Jan -2024). However, neither party is obligated to agree to any minimum number of activities, nor is this MOU intended to preclude either party from entering into similar agreements with other institutions.

The following initiatives provide good starting places and can be implemented as soon as administrative details are agreed upon between the two institutions:

This MOU shall be identified as the parent document of any program agreement executed between the parties. Further agreements concerning any program shall provide details concerning the specific commitments made by each party and shall not become effective until they have been reduced to writing, executed by the duly authorized representatives of the parties.

This Agreement shall become effective upon being signed by both parties.

Dr. R. CH. A. NAIDU  
HOD(CSE)

THE OXFORD COLLEGE OF ENGINEERING

HEAD OF THE DEPARTMENT  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BENGALURU - 560 088

## SIGNATORIES

Dr. G. T. RAJU  
PRINCIPAL  
THE OXFORD COLLEGE OF ENGINEERING

PRINCIPAL

The Oxford College of Engineering  
Bommanahalli, Hoosur Road  
Bangalore-560 088.

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HEAD OF TRAINING  
CHIEF  
EXECUTIVE OFFICER  
ON SMART ENGINEERS





GenEd Technologies  
19.08.2020-21

QRTY: 29AC2P99301R1EX

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ಟೆಕ್ನಾಲಜೀಸ್



GenEd  
Technologies

Doing well has not been of Education

Address: 426, First Floor, 3<sup>rd</sup>  
Cross, Mangammanapalya Main  
Road, Bengaluru, Karnataka,  
India 560068



Email ID: info@genedtech.com  
gened@genedtech.com  
Website: www.genedtech.com  
Phone No: +91 88772 73001

### MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) is entered on 13<sup>th</sup> August, 2019

By & Between

**GenEd Technologies, 26, First Floor, 3<sup>rd</sup> cross, Mangammanapalya Main Road, Bangalore-560068**

and

**MBA Department, The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068**

This Memorandum of Understanding (MOU) sets for the terms and understanding between **GenEd Technologies, 26, First Floor, 3<sup>rd</sup> cross, Mangammanapalya Main Road, Bangalore-560068** and **MBA Department, The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068**

#### Purpose:

This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- Support enhancement of employability skills and traits that lead to overall success of students, teachers and their institution.
- Promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- Create Placement engagements and development opportunities for students and faculty through programmes, Guest lectures, seminars, conferences, visits, events, study trips.

The above goals will be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately agreed between both parties through a written notification.



Through these contact persons, either party may submit proposals for activities under the agreement. Specific details will be set forth in a letter of agreement which will form part of the general arrangements following signature by the appropriate authorities of both parties.

A letter of agreement will include such items as:

- 1. Elaboration of the responsibilities of each institution for the agreed upon activity.
- 2. Scheduled for specific activity.
- 3. Any other terms deemed necessary for the efficient management of the activity.

**Signatures of participating officials**

  
Name: Mr. Manoj D  
Organization: Plattsboure  
Designation: Founder



Date: 03/10/2019

HOD, Dept. of Business Administration  
The Oxford College of Engineering  
Stromasabalu, Bengal Road  
Manipal, Karnataka

Date: 7/8/2019

Name: Dr. R. V. Dhruvakhani  
HOD-MBA  
Organization: The Oxford College of Engineering

**Witness:**

1. Manoj D  
7/10/2019

2. R. V. Dhruvakhani  
7/8/2019







national and state government funding agencies like DBT-BIRAC, DRDO-NRB, DAE-BRNS, AICTE, VGST-KFIST, VTU, KSCST and NIF.

Whereas

"Criyagen Agri & Biotech Pvt Ltd" is a Life Science Company with the mission to deliver low cost, eco-friendly inputs for sustainable agriculture and develop carbon neutral energy means for better tomorrow. Criyagen is pioneer in developing bio-chemical products for comprehensive crop nutrition. Criyagen came into existence in the year 2008 and carved a niche in the industry as the leading manufacturer of supreme quality products. Superiority is the feature and to preserve unique quality standards, Criyagen has immersed in offering a varied collection of **Enriched Fertilizer, Bio Fertilizer, Crop Nutrients, Bio Pesticide, Innovative Product and Micronutrients**. The company has a vast set up laboratory at each of the production centers. The company is also actively involved in customer driven R&D and continual improvement in Process & Product, based on customer feedback and field inputs, which in turn enables to develop new products, targeted to specific crop requirements and needs resultant in outcome-oriented customized products.

"Criyagen" was founded by Dr. Basavaraj Girenavar, who is now the Chairman and Managing Director of the Company. Dr. Girenavar is a first generation, high impact entrepreneur with scientific acumen and enterprising ideas. He has more than a decade of experience in industry and research both in India and USA.

Whereas

The parties have discussed and deliberated on various aspects of mutual interest and benefits and have deemed expedient to execute this Memorandum of Understanding.

#### 1. Sharing of Facilities

- 1.1. Both the organizations agree to share their respective R & D facilities in order to promote academic and research interaction.
- 1.2. There will be provision for mutual sharing of experts from "Criyagen" and resource persons from "TOCE".

#### 2. Joint R & D Projects

- 2.1. Research projects in the identified areas will be jointly undertaken by "TOCE" and "Criyagen". Both the organizations will submit collaborative research projects to various national and international funding agencies. Both the organizations would ensure the successful completion of the funded research projects in meeting the desired objectives.
- 2.2. For all the matters concerned a coordination committee overseeing the issues consisting of six members (Three Members from "TOCE", Three members from "Criyagen" with the Chairman on rotation basis) for identifying joint R & D projects to be carried out under this MoU. The ethical approval of these projects

*Basavaraj Girenavar*  
 Chairman & Managing Director  
 Criyagen Agri & Biotech Pvt Ltd

*B. G.*



would be granted by ethics sub committees of "TOCE" and "Criyagen" as registered under law.

- 2.3. Both "TOCE" and "Criyagen" agree to get the tax exemption whenever they provide fund to "TOCE" related to research and also procure the equipment for R & D purpose.
3. **Consultancy & Contract Research Services:**
  - 3.1. Criyagen will offer contract research services to professors and researchers of "TOCE", in the field of Bio Fertilizer, Crop Nutrients, Bio Pesticides.
4. **Joint Seminar/conference/Workshops/Hands on training programmes.**
  - 4.1. Both "TOCE" and "Criyagen" agree to hold/ conduct whenever feasible, joint Conference/Workshop/Hands on training programs in "TOCE/Criyagen".
5. **Industrial visits:**
  - 5.1. "TOCE" and "Criyagen" agree to organize industrial visits whenever feasible, for the students, staffs and delegates and also during the Conference /Workshop/Hands on training programs.
6. **Industrial training:**
  - 6.1 Both "TOCE" and Criyagen agree to train the students and staff of "TOCE" by organizing industrial training programs whenever feasible related to technology, Analytical development, validation and documentation etc.
7. **Placements:**
  - 7.1 "TOCE" agree to organize Campus interviews in "TOCE" and off campus interview in "Criyagen". For the students of "TOCE" whenever feasible related to R&D, Production, Quality Assurance and Quality Control departments. "Criyagen" agrees to place the selected candidates in "Criyagen" Internships.
  - 7.2 Both "TOCE" and "Criyagen" agree to Provide summer internships to students in another area. This helps in motivating the students, understanding industry environment and practices.
8. **INTELLECTUAL PROPERTY, CONFIDENTIALITY AND NON-DISCLOSURE**
  - 8.1 Both parties recognize, accept and agree that all tangible and intangible information obtained or disclosed to the other party or its staff or employees including all details, documents, patent information an particulars and trade secrets (all of which are hereinafter referred to as confidential and/or proprietary information) of such party which may be communicated to other party, its staff / employees who may be privy under or pursuant to this contract and/or in the course of performance of such party's obligations under this contract shall be treated as absolutely confidential and the other party agrees and undertakes to ensure that it and all its staff/employees shall keep the same as secret and confidential and shall not disclose the same, at all, in whole or in

*Mung - arko*

*B. S.*





part to any person at any purpose other than as may be necessary for due performance of the party's obligations herein and only for the benefit of the other party.

8.2 Both parties hereby unconditionally agree and undertake to ensure that they or their staff / employees shall not disclose or publish the existence of the terms and conditions of this contract or any information relating to it or other business which they may come across of performing their duties unless such disclosure or publication is strictly required by law or by any authority acting under law.

#### 9. Duration, Amendment and Termination of MoU

9.1 This MoU shall be valid for a period of three years from the date of its signing. During the period of the validity, the MoU can be amended any time by mutual consent of both the parties in writing. The MoU can also be terminated by either party giving the order a written notice of its desire to terminate the MoU by giving three months notice in advance. In the event of such termination both the parties shall cooperate in good spirit for the completion of the ongoing researchers.

#### 10. Dispute Resolution and Governing Law

10.1 The dispute or issue if any arising out of or touching this Agreement if not resolved amicably shall be referred to an arbitration of an arbitrator mutually agreed by the parties. In the event parties fail to agree on single arbitrator then each party shall appoint third arbitrator. The arbitration will be held in Bangalore. The Language of the arbitration shall be in English.

10.2 In witness whereof of the two parties have signed this memorandum of understanding by the hand of, on behalf of "TOCE" and by the hand on behalf of "Criyagen" on the month and year referred to above.

*M. B. K. Manjunath*  
Signed by and on behalf of  
"Department of Biotechnology"  
The Oxford College of Engineering

Dr. B.K.Manjunath,  
Head of the Department,  
Department of Biotechnology  
The Oxford College of Engineering  
DR. B.K MANJUNATHA  
Professor & Head

Date: 16<sup>th</sup> September 2021  
Department of Biotechnology  
The Oxford College of Engineering  
Bangalore-560075

*B. G. Basavaraj Girenavar*  
Signed by and on behalf of  
Criyagen Agri & Biotech Pvt Ltd

Dr. Basavaraj Girenavar  
Chairman & Managing Director,  
Criyagen Agri & Biotech Pvt. Ltd,  
Bangalore.







## MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

**Department of Biotechnology  
The Oxford College of Engineering**

10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru - 560068

AND

**LGS Trust ®**

No.126, 1<sup>st</sup> Floor, Aadri, 7<sup>th</sup> Cross, 2<sup>nd</sup> Main, Hoysalanagar, Sunkadakatte, Bengaluru - 560091

This Memorandum of Understanding (hereinafter called as the 'MoU') is entered into on this the Twenty Third day of February Month, 2021 by and between.

**Department of Biotechnology, The Oxford College of Engineering** the First Party represented herein by its Professor and Head of Department - **Dr. B K Manjunatha** and **LGS Trust ®** The second party and represented herein by its Secretary, **Mr. Harsha S**

WHEREAS:

A) First Party is a Higher Educational Institution named: **Department of Biotechnology, The Oxford College of Engineering, Bangalore.**

B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.

C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, AICTE Activity Point Implementation, Technical Internship, Placement, Industrial Visit, Expert Lecture.

D) **LGS Trust ®**, - the Second Party is engaged in Social Innovation, Developing Engineering Solution to Community Problems, Education and Health segment along with AICTE Activity Points Implementation

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:

### CLAUSE 1

### CO-OPERATION

1.1 Both Parties are united by common interests and objectives, and they shall establish co-operation.

1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities.

1.3 The parties shall co-operate with each other and shall as promptly as is responsibly practical, relevant agreement.



## CLAUSE 2

## SCOPE OF THE MoU

- 2.1 Industrial Training & Visits: Industry and Institution interaction will provide an insight into the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. This will provide confidence & smooth transition for students work. Also the Second party may register on the AICTE Internship Portal for the benefit of students.
- 2.2 Guest Lectures: Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house requirements.
- 2.3 Placement of trained students: second party will actively engage to help the delivery of the training and placement of the students of the first party on the technology trends and in house requirements.
- 2.4 There is no financial commitment on the part of the Department of Biotechnology, The Oxford College of Engineering, Bangalore, the first party to take up any program mention in MoU. If there is any financial consideration, it will be dealt separately.
- 2.5 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required.

## CLAUSE 3

## VALIDITY

- 3.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period, the Second Part.

## CLAUSE 4

## RELATIONSHIP BETWEEN THE PARTIES

- 5.1 It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership.

### Signature and Seal

#### First Party


  
Dr. B. K. MANJUNATHA  
Professor and Head  
Department of BT  
The Oxford College of Engineering  
Bangalore

**Dr. B K Manjunatha**  
**Professor and Head**  
**Dept. of BT**

The Oxford College of Engineering

#### Second Party

For LGS TRUST (R)

  
Secretary

**Mr. Harsha S**  
**Secretary & Chief Instructor**  
LGS Trust

Vision Group of Science and Technology, Govt. of Karnataka) and Centre for Bioremediation (With financial assistance from Naval Research Board, DRDO, New Delhi & DBT-BIRAC, New Delhi). In these R&D centers, several funded research projects have already been conducted and continuing. Research grants have been received from various national and state government funding agencies like DBT-BIRAC, DRDO-NRB, DAE-BRNS, AICTE, VGST-KFIST, VTU, KSCST and NIF.

Whereas

**FIBROHEAL WOUNDCARE PVT. LTD.** is a leading biotech and healthcare start-up company working exclusively on "Silk Proteins" as "Biomaterial for Wound Healing" focused on active and advance wound care management. "Fibroheal" was started in 2017 by **Vivek Mishra** who is the Director and CEO of the company.

This company is one among the few companies working across the globe on non-textile application of "Silk Protein", as versatile biomaterial in biomedical use. The company is a pioneer in leveraging the biomaterial application of silk proteins to develop most innovative advance and active wound care products to heal acute and chronic wounds or non-healing or slow healing or difficult-to-heal wounds through our indigenously developed IP protected technology. The company brings together our technical expertise on biomaterials with the contemporary knowledge of pharma and biomedical engineering to design/develop novel and cost-effective solutions for wound management. "Fibroheal" is a true research and technology driven company with a dedicated in-house R&D, possessing innovative technological wound care products and solutions and ambition to go-global with international standards.

"Fibroheal" aspire to be one of the Indian companies catering to entire gamut of wound management, offering comprehensive solutions to entire wound care continuum. The entire range of products are manufactured in-house in state-of-art, ISO 13485 and GMP certified facility. "Fibroheal" have few flagship products in the basket and are the first choice of many wound care professionals in both institutional and customer segments, who are looking for advanced, affordable and effective wound care solutions. The firm is also registered under the Startup India and Startup Karnataka schemes. They are also awarded as one of the winners of ELEVATE 2019, and recognized as the most innovative startup from Startup Karnataka from Government of Karnataka.

  
**DR. B.K. MANJUNATHA**  
Professor & Head  
Department of Biotechnology  
The Oxford College of Engineering  
Bangalore





Whereas

The parties have discussed and deliberated on various items of mutual interest and benefits and have deemed expedient to execute this memorandum of understanding so as to mutually co-operate in validating medicinally important products and assays and joint publication.

**1. Sharing of Facilities**

1.1 Both the organizations agree to share their respective R & D facilities in order to promote academic and research interaction.

1.2 There will be provision for mutual sharing of experts from "Fibroheal" and resource persons from "TOCE".

**2. Joint R & D Projects**

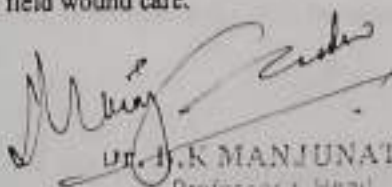
2.1 Research projects in the identified areas will be jointly undertaken by "TOCE" and "Fibroheal". Both the organizations will submit collaborative research projects to various national and international funding agencies. Both the organizations would ensure the successful completion of the funded research projects.

2.2 For all the matters concerned a coordination committee overseeing the issues consisting of six members (Three Members from "TOCE", Three members from "Fibroheal" with the Chairman on rotation basis) for identifying joint R & D projects to be carried out under this MoU. The ethical approval of these projects would be granted by Ethics sub committees of "TOCE" and "Fibroheal" as registered under law.

2.3 Both "TOCE" and "Fibroheal" agree to get the tax exemption whenever they provide fund to "TOCE" related to research and also procure the equipment for R & D purpose.

**3. Consultancy & Contract Research Services:**

3.1. "Fibroheal" will offer contract research services to professors and researchers of "TOCE", in the field wound care.

  
DR. H.K. MANJUNATHA  
Professor & Head  
Department of Plastic Surgery  
The Oxford College of Health Sciences  
Bengaluru-560024





4. Joint Seminar/conference/Workshops/Hands on training programmes.
- 4.1. Both "TOCE" and "Fibroheal" agree to hold/ conduct whenever feasible, joint Conference/Workshop/Hands on training programs in "TOCE/ Fibroheal".
  
5. Industrial visits:
- 5.1. "TOCE" and "Fibroheal" agree to organize industrial visits whenever feasible, for the students, staffs and delegates and also during the Conference /Workshop/Hands on training programs.
  
6. Industrial training:
- 6.1 Both "TOCE" and "Fibroheal" agree to train the students and staff of "TOCE" by organizing industrial training programs whenever feasible related to technology, Analytical development, validation and documentation etc
  
7. Placements:
- 7.1 "TOCE" agree to organize Campus interviews in "TOCE" and off campus interview in "Fibroheal". For the students of "TOCE" whenever feasible related to R&D, Production, Quality Assurance and Quality Control departments. "Fibroheal" agrees to place the selected candidates in "Fibroheal" Internships.
- 7.2 Both "TOCE" and "Fibroheal" agree to Provide summer internships to students in another area. This helps in motivating the students, understanding industry environment and practices.
  
8. INTELLECTUAL PROPERTY, CONFIDENTIALITY AND NON-DISCLOSURE
- 8.1 Both parties recognize, accept and agree that all tangible and intangible information obtained or disclosed to the other party or its staff or employees including all details, documents, patient information and particulars and trade secrets (all of which are hereinafter referred to as confidential and / or proprietary information) of such party which may be communicated to other party, its staff / employees who may be privy under or pursuant to this contract and / or in the course of performance of such party's

  
**DR. B. K. MANJUNATHA**  
Professor & Head  
Department of Biotechnology  
The Oxford College of Engineering  
Bangalore





obligations under this contract shall be treated as absolutely confidential and the other party agrees and undertakes to ensure that it and all its staff / employees shall keep the same as secret and confidential and shall not disclose the same, at all in whole or in part to any person at any purpose other than as may be necessary for due performance of the party's obligations herein and only for the benefit of the other party.

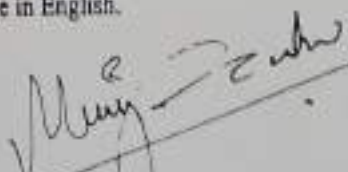
8.2 Both parties hereby unconditionally agree and undertake to ensure that they or their staff / employees shall not disclose or publish the existence of the terms and conditions of this contract or any information relating to it or other business which they may come across of performing their duties unless such disclosure or publication is strictly required by law or by any authority acting under law.

#### 9. Duration, Amendment and Termination of MoU

9.1 This MoU shall be valid for a period of three years from the date of its signing. During the period of the validity, the MoU can be amended any time by mutual consent of both the parties in writing. The MoU can also be terminated by either party giving the other a written notice of its desire to terminate the MoU by giving three months notice in advance. In the event of such termination both the parties shall cooperate in good spirit for the completion of the ongoing researchers.

#### 10. Dispute Resolution and Governing Law

10.1 The dispute or issue if any arising out of or touching this Agreement if not resolved amicably shall be referred to an arbitration of an arbitrator mutually agreed by the parties. In the event parties fail to agree on single arbitrator then each party shall appoint third arbitrator. The arbitration will be held in Bangalore. The Language of the arbitration shall be in English.


  
Dr. B.K. MANJUNATHA  
Professor & Head  
Department of Biotechnology  
The Oxford Engineering College  
Bangalore - 560073







10.2 In witness whereof of the two parties have signed this memorandum of understanding by the hand of, on behalf of "TOCE" and by the hand of behalf of "Fibroheal" on the month and year referred to above.


  
Signed by and on behalf of  
"Department of Biotechnology"  
The Oxford College of Engineering

**Dr. B.K. Manjunath,**  
Head of the Department,  
Department of Biotechnology  
The Oxford College of Engineering

**DR. B.K. MANJUNATH**

Professor & Head  
Department of Biotechnology  
The Oxford College of Engineering  
Bengaluru-560 065

Date: 28.09.21

  
Signed by and on behalf of  
Fibroheal Woundcare Pvt Ltd

**Dr. Tapan Kumar Dash**  
Research and Development Manager  
Fibroheal Woundcare Pvt. Ltd,  
Bangalore.



MEMORANDUM OF UNDERSTANDING  
(MOU)  
BETWEEN



THE OXFORD COLLEGE OF ENGINEERING,  
DEPARTMENT OF MECHANICAL ENGINEERING  
AND  
PRINSTON SMART ENGINEERS

The Memorandum of Understanding is made between Department of Mechanical Engineering, THE OXFORD COLLEGE OF ENGINEERING and PRINSTON SMART ENGINEERS, to promote the cooperation in Workshops, Conferences and Seminars would be mutually beneficial. The areas of cooperation may include, subject to mutual consent, any desirable and feasible activity that would further the goals of each Institution. Such interaction may include cooperation in a variety of joint academic and educational activities such as:

- To conduct the conferences, seminars and workshops.
- Should accommodate the UG students in such a number that industry deems convenient to it for the purpose of imparting industrial training and internships.
- To give the placement opportunities to the students.

The parties anticipate that a number of these initiatives will occur during the period of this MOU i.e (Oct-2020 to Dec-2023). However, neither party is obligated to agree to any minimum number of activities, nor is this MOU intended to preclude either party from entering into similar agreements with other institutions.

The following initiatives provide good starting places and can be implemented as soon as administrative details are agreed upon between the two institutions:

This MOU shall be identified as the parent document of any program agreement executed between the parties. Further agreements concerning any program shall provide details concerning the specific commitments made by each party and shall not become effective until they have been reduced to writing, executed by the duly authorized representatives of the parties.

This Agreement shall become effective upon being signed by both parties.

HEAD OF TRAINING  
PRINSTON SMART ENGINEERS

SIGNATORIES

G. H. Reddy  
Dr. MADHU SUDANA REDDY G  
PROFESSOR & HEAD  
DEPARTMENT OF MECHANICAL ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, BANGALORE-560068

Shreyas Kumar  
PROF. NARAYAN  
VINOODHAR  
HEAD OF DEPT.  
MECHANICAL ENGINEERING  
PRINSTON SMART ENGINEERS  
Placement Cell

Dr. G. T. Raju  
DR. G. T. RAJU  
PRINCIPAL  
The Oxford College of Engineering  
Bommanahalli, Hosur Road  
Bangalore-560 068



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office :

1st Phase, J.P. Nagar, Bengaluru - 560 078. ☎ : 080 - 61754501 - 502 Fax: 080 2654 6668

**THE OXFORD COLLEGE OF ENGINEERING**

(Recognized by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Bengaluru & Approved by A.I.C.T.E., New Delhi. Accredited by NAAC & NBA New Delhi and Recognized by UGC under section 2(F)(ii))

Bommanahalli, Hosur Road, Bengaluru - 560 068.

☎ : 080 61754501 / 602 / 604 Fax: 080 25730551

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

## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (herein after referred to as MoU) is entered into on this date 21-01-2021 between **THE OXFORD COLLEGE OF ENGINEERING, BENGALURU** and **GOVT. TOOL ROOM AND TRAINING CENTRE - Bengaluru**.

The scope of the MoU, the roles and responsibilities of the parties,

### **Background**

This MoU is for the benefits of students for IT / Mechanical / Mechatronics / Automobile / Electrical / Electronics and communication. This MoU is for the conducting internship, Training, Projects, Workshop, Seminars and Faculty development programme for the following Branches.

1. Mechatronics Engineering
2. Mechanical Engineering
3. Electrical and Electronics Engineering
4. Electronics and Communication Engineering
5. Automobile

### **I. BENEFITS TO THE, THE OXFORD COLLEGE OF ENGINEERING, BENGALURU**

1.1 Opportunity to emerge as one of the competent entities in the academic circles in research and development in the area of Information Technology and Mechatronics.

1.2 Opportunity to be recognized by the industry and academic circles as one of the preferred locations for acquiring training and skills development in latest technology and software.

1.3 Opportunity to utilize the Program to train students on Latest Technology Software products and technologies.

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1.4. Opportunity for the faculty and students of THE OXFORD COLLEGE OF ENGINEERING, BENGALURU to design world class curriculum capable of delivering the caliber of IT skills required at present and also for the future.

1.5 Students will get 20% discount in course fees, provided with minimum batch quantity of 20 numbers and fees will be directly deposited to GTTC through institute.

## 2. BENEFITS FROM GOVT. TOOL ROOM AND TRAINING CENTRE – BENGALURU

2.1. Students and faculty will get the technical support on latest technology along with paper presentations and **live projects**.

2.2. Students and faculty will get the coding level workshop program on latest technologies and workshop program will be on hands on work.

2.3. GOVT. TOOL ROOM AND TRAINING CENTRE – BENGALURU will support for student final year academic project with training and development on as per student problem statement and also latest technology.

### MONITORING OF IMPLEMENTATION

A Co-ordination Committee consisting of two faculty members of THE OXFORD COLLEGE OF ENGINEERING, BENGALURU and two officers nominated by GOVT. TOOL ROOM AND TRAINING CENTRE – BENGALURU will do the planning and monitoring of its implementation of the various aspects of this MoU. There will be an annual review, this review would primarily focus on the curriculum progress, faculty availability and certification.



### GENERAL

1. This MoU may be terminated by either party through a notice of one month. Either party may terminate this MoU if either of the parties is frustrated by reasons beyond its control from going ahead with the implementation of the provision of this MoU. The provision



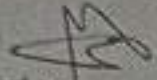
SUMMARY:

GOVT. TOOL ROOM AND TRAINING CENTRE - BENGALURU recognizes the significance of the Principal of THE OXFORD COLLEGE OF ENGINEERING, BENGALURU initiative to be the leader in the field of Tooling and High Tech Technology related academia in the country. GOVT. TOOL ROOM AND TRAINING CENTRE - BENGALURU proposes to make available the appropriate technology and expertise to develop THE OXFORD COLLEGE OF ENGINEERING, BENGALURU position as a leading institute providing high quality skilled resources. This Memorandum of Understanding is intended to express the broad understanding of the parties regarding their working with each other to the extent possible for their mutual benefit.

Signature with seal,	Signature with seal,
 PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068.	 Principal Govt. Tool Room & Training Centre Dejajinagar Industrial Estate Pappalagere - 560 019 GOVT. TOOL ROOM AND TRAINING CENTRE BENGALURU

Witness

Dr. Yashoda B.S.



21/11/2021  
Prof. A. HOD

Department of Mechatronics  
The Oxford College Of Engineering  
Bommanahalli, Bangalore - 560 068

Dr. HAROH SUNAHU



PROFESSOR & HOD

DEPARTMENT OF MECHANICAL ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, BANGALORE - 560 068



# MEMORANDUM OF UNDERSTANDING (MOU)



BETWEEN

**THE OXFORD COLLEGE OF ENGINEERING,  
DEPT. OF MECHANICAL ENGINEERING**

AND

**EHAA TECHNOLOGIES**

The Memorandum of Understanding is made between Department of Mechanical Engineering, THE OXFORD COLLEGE OF ENGINEERING and EHAA TECHNOLOGIES, to promote the cooperation in Research, Workshops, Conferences and Seminars which be mutually beneficial. The areas of cooperation may include, subject to mutual consent, any desirable and feasible activity that would further the goals of each institution. Such interaction may include cooperation in a variety of joint academic and educational activities such as:

- Joint research publications with the industry.
- To conduct the conferences, seminars and workshops.
- Should accommodate the UG students in such a number that industry deems convenient to it for the purpose of imparting industrial training and internships.
- The students will carry out part of their UG project at industry depending on the nature of the works per rules depending on the facilities and requirements.
- To give the placement opportunities to the students.

The parties anticipate that a number of these initiatives will occur during the period of this MOU i.e. (Jan-2021 to Jan-2024). However, neither party is obligated to agree to any minimum number of activities, nor is this MOU intended to preclude either party from entering into similar agreements with other institutions.

The following initiatives provide good starting places and can be implemented as soon as administrative details are agreed upon between the two institutions:

This MOU shall be identified as the parent document of any program agreement executed between the parties. Further agreements concerning any program shall provide details concerning the specific commitments made by each party and shall not become effective until they have been reduced to writing, executed by the duly authorized representatives of the parties.

This Agreement shall become effective upon being signed by both parties.

*C. H. Reddy*

DR. MADHU SUDHANA REDDY D  
PROFESSOR & HEAD

DEPARTMENT OF MECHANICAL ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, BANGALORE-560

SIGNATORIES

Dr. SHARAD K  
DEPT. HEAD OF MECHANICAL  
TECHNOLOGIES

*Dr. Sharad K*  
PRINCIPAL

The Galvan College of Engineering  
Bommanahalli, Hosur Road  
Bangalore-560 068







# MEMORANDUM OF UNDERSTANDING (MOU)



## BETWEEN THE OXFORD COLLEGE OF ENGINEERING, DEPT. OF MECHANICAL ENGINEERING AND EXCEL SPRINGS PVT. LTD.

This Memorandum of Understanding is made between Department of Mechanical Engineering, THE OXFORD COLLEGE OF ENGINEERING and EXCEL SPRINGS PVT. LTD., to promote the cooperation in Research, Workshops, Conferences and Seminars would be mutually beneficial. The areas of cooperation may include, subject to mutual consent, any desirable and feasible activity that would further the goals of each institution. Such interaction may include cooperation in a variety of joint academic and educational activities such as:

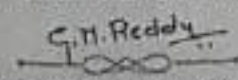
- Joint research publications with the industry.
- To conduct the conferences, seminars and workshops.
- Should accommodate the UG students in such a number that industry deems convenient to it for the purpose of imparting industrial training and internships.
- The students will carry out part of their UG project at industry depending on the nature of the work as per rules depending on the facilities and requirements.
- To give the placement opportunities to the students.

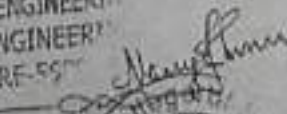
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The following initiatives provide good starting places and can be implemented as soon as administrative details are agreed upon between the two institutions:

This MOU shall be identified as the parent document of any program agreement executed between the parties. Further agreements concerning any program shall provide details concerning the specific commitments made by each party and shall not become effective until they have been reduced to writing, executed by the duly authorized representatives of the parties.

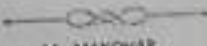
This Agreement shall become effective upon being signed by both parties.

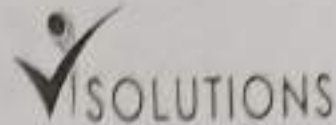
  
C.N. Reddy  
PROFESSOR & HEAD  
DEPARTMENT OF MECHANICAL ENGINEERING  
THE OXFORD COLLEGE OF ENGINEERING  
BOMMANAHALLI, BANGALORE-55

  
Prof. NANCY JOHNSON  
HEAD PLACEMENT TRAINING & EDUCATION THE  
OXFORD EDUCATIONAL INSTITUTIONS  
BANGALORE

### SIGNATORIES

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

  
Mr. MANOHAR  
EXECUTIVE DIRECTOR  
EXCEL SPRINGS PVT. LTD.



Sunil  
9902097872

## MEMORANDUM OF UNDERSTANDING

BETWEEN

THE OXFORD COLLEGE OF ENGINEERING

AND

VI SOLUTIONS

This Agreement made and entered into on this 21<sup>st</sup> day of April 2021 between THE OXFORD COLLEGE OF ENGINEERING, Bengaluru- 560068 (hereinafter called "The Oxford College of Engineering") and VI SOLUTIONS (hereinafter called "VI Solutions" which expression shall include its successors and permitted assignees) with its registered office at Bengaluru.

### 1. OBJECTIVES OF THE MOU

The objective of this Memorandum of Understanding is:

- a. to promote interaction between THE OXFORD COLLEGE OF ENGINEERING and VI Solutions in mutually beneficial areas.
- b. to provide a formal basis for initiating interaction between THE OXFORD COLLEGE OF ENGINEERING and VI Solutions.

### 2. PROPOSED MODES OF COLLABORATION

THE OXFORD COLLEGE OF ENGINEERING and VI SOLUTIONS propose to collaborate through

- a. Supporting R&D projects, which may be carried out wholly at THE OXFORD COLLEGE OF ENGINEERING.
- b. Any other appropriate mode of interaction agreed upon between THE OXFORD COLLEGE OF ENGINEERING and VI SOLUTIONS.

### 3. FORMS OF RESEARCH AND DEVELOPMENT PROGRAMS

The form of any of the said Research and Development Program (hereinafter referred to as "Research Program") will be subject to a separate Research Agreement entered into by the Parties but may also include the following:

- a. **In their own existing facilities** - The performance of research individually by each Party or concurrently by both Parties in mixed groups at their own facilities with regular exchanges of results.
- b. **In a separate research and development facility** - The performance of research by the technical personnel of both Parties working together in the facilities of one Party or in mixed groups at the facilities supported/ sponsored by either Party.
- c. **Third parties** - The performance of research by the Parties together with one or more third parties.

### 4. TECHNICAL AREAS OF COLLABORATION

The principal technical areas of collaboration between THE OXFORD COLLEGE OF ENGINEERING and VI SOLUTIONS will be as Internet of Things - IIoT, Machine Learning, Artificial Intelligence, Embedded System Design.



## 5. AGREEMENTS FOR RESEARCH COLLABORATION

Research undertaken by the **THE OXFORD COLLEGE OF ENGINEERING**, the treatment of intellectual property and data rights, including patents, industrial design registration, copyrights and all other proprietary information (including innovations not patented, designs not registered etc.) will be retained to the original inventors and in the college name.

## 6. CONFIDENTIALITY

- a. During and for a period of one year from the date of disclosure, each party agrees to consider as confidential all information disclosed by the other party in written or tangible form or, if orally disclosed consented in writing within thirty days of disclosure and identified as confidential by the disclosing party.
- b. The obligations above shall not extend to any confidential information for which the receiving party can prove that this information:
  - is in the public domain at the time of disclosure or comes within the public domain without fault of the receiving party.
  - is already known or become known to the receiving party
  - is received from a third party having no obligations of confidentiality to the disclosing party.
  - is independently developed by the receiving party; or
  - is required to be disclosed by law or court order.

## 7. NON-EXCLUSIVITY

The relationship of the parties under this MOU shall be nonexclusive and both parties, including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind. However, when entering into a particular research agreement, the participants may agree to limit each party's right to collaborate with others on that subject.

## 8. TERMS AND TERMINATION

This MOU, unless extended by mutual written agreement of the parties, shall expire **1 year** after the effective date specified in the opening paragraph. This MOU may be amended or terminated earlier by mutual written agreement of the parties at any time. Either party shall have the right to unilaterally terminate this MOU upon 60 days prior written notice to the other party. However, no such early termination of this MOU, whether mutual or unilateral, shall affect the obligations of the participants under any Research Agreement. Confidentiality clause as referenced in clause 6 above, or any other agreement entered into pursuant to this MOU, which obligations shall survive any such termination.

## 9. RELATIONSHIP

Nothing in this MOU shall be construed to make either party a partner, an agent or legal representative of the other for any purpose.

- (a) **Hands-on-Workshop / SDP:** VI Solutions will organize at least one hands-on-workshop on latest technologies like Industrial Internet of Things – IIoT, Machine Learning, Artificial Intelligence, Embedded System Design etc., for students as agreed terms and conditions every year. The College will provide the infrastructure facility for conducting such workshop in the campus. VI Solutions will provide certificates for the participants for workshops authorized by National Instruments.
- (b) **FDP:** VI Solutions will organize at least one Faculty Development Program on latest technologies like Industrial Internet of Things – IIoT, Machine Learning, Artificial Intelligence, Embedded System Design etc., as agreed terms and conditions every year. The College will provide the infrastructure facility for





conducting such workshop in the campus. VI Solutions will provide certificates for the participants for workshops authorized by National Instruments.

(c) **Internship:** VI Solutions will short list candidates for internships after workshop based on their performance and willingness.

(d) **Workshop/events:** If the College wishes to organize a national event in the area of IoT, Machine Learning, Artificial Intelligence, Signal processing & Image Processing, VI Solutions will provide speakers.

**10. ASSIGNMENT**


It is understood by the Parties herein this MOU is based on the professional competence and expertise of each party and hence neither Party shall transfer or assign this Agreement, or rights or obligations arising hereunder, either wholly or in part, to any third party.

**11. SIGNED IN DUPLICATE**

This MOU is executed in duplicate with each copy being an official version of the Agreement and having equal legal validity.

**BY SIGNING BELOW**, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

On behalf of  
**THE OXFORD COLLEGE OF  
ENGINEERING, BENGALURU**

By :   
Name : **R. S. Prasad**  
Title : **Head of Dept. of Mechatronics**  
Department of Mechatronics  
Oxford College of Engineering,  
Bengaluru  
Date : **21-04-2021**  
Witness :

on behalf of  
**VI SOLUTIONS, BENGALURU**

By :   
Name : **R. S. Prasad**  
Title : **Managing Director**  
Date : **21-04-2021**  
Witness :



KARNATAKA GERMAN TECHNICAL TRAINING INSTITUTE,  
BENGALURU  
&  
THE OXFORD COLLEGE OF ENGINEERING, BENGALURU



Karnataka German Technical  
Training Institute (KGTI)  
No. 8, 2nd  
Floor

Memorandum of Understanding  
between

KARNATAKA GERMAN TECHNICAL TRAINING INSTITUTE (KGTI),  
BENGALURU

and

THE OXFORD COLLEGE OF ENGINEERING (TOCE)  
BENGALURU

Date 26.03.2021

MoU Signed at:

Karnataka German Technical Training Institute (KGTI)  
Near Nagasandra Metro Station, Behind Kemnametal,  
Mangurathu Nagara, Bagalagunte,  
Bengaluru - 560073



*[Handwritten signature]*



### 'MEMORANDUM OF UNDERSTANDING'

This Memorandum of Understanding (MoU) is made on 26.03.2021 between Karnataka German Technical Training Institute (KGTTI), an institute under Society for Karnataka German Multi Skill Development Centre (KGMSDC), established by Government of Karnataka, under funding from Government of India & Government of Karnataka, and having Technical Collaboration with German International Services (GIS-15), having its office at near Nagasandra Metro Station, Behind Keenanmettal, Manjunath Nagara, Bigalagunte, Bengaluru 560073, India (hereinafter referred to as KGTTI), represented by its Director on the one part.

AND

THE OXFORD COLLEGE OF ENGINEERING [TOCE], is one of the most prestigious institutions in Bengaluru that provides quality teaching and training in professional courses in various streams of Engineering, affiliated to Visvesvaraya Technological University - Belgaum, having its office at 10<sup>th</sup> Milestone, Hosur Road, Bommanahalli, Bengaluru, Karnataka 560068, Karnataka, India (hereinafter referred to as TOCE)

This MoU is made for imparting skill development training under different training programs, internships and placement Assistance for students of TOCE organized by KGTTI.

In this connection, the following points are agreed upon:

#### 1. Objective:

The overall objective of the KGTTI is to provide skill development, Internships, Projects, advanced technology hands-on Training and to enhance employment opportunities. To achieve this objective, the TOCE will mobilize its students/ participants to undergo skill development training to make them industry ready.

#### 2. Recitals:

a. KGTTI is an organization providing technical skill training and consultancy services in advanced technology areas to students, jobseekers, school dropouts and unemployed youth industry personnel.



*[Handwritten Signature]*

*[Handwritten Signature]*  
PRINCIPAL  
The Oxford College of Engineering  
Bengaluru  
Dated: 26.03.2021





KARNATAKA JERMAN TECHNICAL CHAMBERS, INDIA LTD  
BANGALORE

MEMORANDUM OF UNDERSTANDING



b. TOCE is an institution engaged in imparting education to develop professional skills and prepare the students / Employees for immediate employment and provide them with a solid foundation for further education

c. The purpose of the agreement is with reference to defining the areas of cooperation benefiting both TOCE and KJTTI

This agreement witnesses as follows:

Access of co-operation

### 3. Scope of Agreement:

- KJTTI to liaison with TOCE for providing advanced technical skill training, projects in the students or participants mobilized by TOCE
- KJTTI will provide training on the specified list of Courses [See Annexure - 1] to different category of students referred by TOCE
- KJTTI will, unless otherwise stated utilize its premises, subject experts, software and training kits / equipment for conducting training

TOCE:

- To promote courses run by KJTTI, TOCE will mobilize its students/Participants.
- The TOCE will mobilize minimum no. of students/ participants per year.
- Subject to mutual convenience, TOCE will utilize the services of the faculty of KJTTI to render specialized domain intervention and conduct technical sessions in order to promote the KJTTI activities and motivate the students.
- TOCE shall initiate students meet and other business promotional activities to promote the training activities of KJTTI. KJTTI shall provide technical support, presentation and promotional materials for such events.

### 4. Training Support & Methodology:

The training shall be conducted at KJTTI premises or at the premises of the TOCE if the KJTTI satisfies itself on the adequacy of the infrastructure to conduct such training programs.

- Subject to availability of adequate infrastructure, KJTTI can conduct sandwich courses wherein partial training can be conducted at TOCE premises or any other mutually agreed place with other associated activities conducted at KJTTI
- KJTTI shall provide all support needed for imparting the necessary training to the students mobilized by TOCE.

KJTTI shall provide support to students for their placement assistance.



*E. J. Somaiya*

Page 2 of 4



Each Training program of specified duration will be carried out on mutually agreed terms.

- KCTTI will issue the Certificates to the students after successful completion of the training program. Also, since KCTTI is an authorized Training Academy for CSEED, eligible students trained in Cseo authorized courses would get certificates from CSEED along with a discount voucher for the Global Certification Examination (This is subject to fulfilling the Cseo norms)
- KCTTI is associated with FETSD (Festo Authorization Certification Training Centre)
- KCTTI is also associated with Volkswagen for training in Automobile Service sector.

5. General Agreements:

3.0 Duration, Amendment and Termination of MOU

- This MOU shall be valid for a period of one year from the date of its signing. During the period of the validity, the MOU can be amended any time by mutual consent of both the parties in writing. The MOU can also be terminated by either party giving the order a written notice of its desire to terminate the MOU by giving three months notice in advance. In the event of such termination both the parties shall cooperate in good spirit for the completion of the ongoing researchers.
- Both the parties agree that no action / failure on either part, to act relating to the above proposal, will give raise to / serve as the basis for any claim, obligation or liability on either side.
- This Agreement may be amended with the prior written consent of both the parties.
- Subject to availability of infrastructure and other facilities at KCTTI, students mobilized by TOCE and undergoing training at KCTTI can take up appropriate projects which may be required as part of Academic requirement at TOCE. If required, such projects can be carried out in co-ordination with the associated faculty from TOCE.
- This agreement is valid from 26.03.2021 to 25.03.2022

6. Course Deliverables:

The list of courses offered, eligibility criteria and fee structure is appended at Annexure-1.

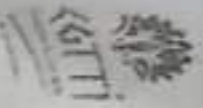


KCTTI will follow its standard methodologies related to conduct, student attendance, regularly accepted quality norms, student feedback, internal assessments, evaluation, evaluation and certification, smooth & effective delivery of course content and competence building of the trainee student.

*C.P. Shankar Pillai*

Principal, KCTTI

Principal, KCTTI



KARNATAKA GERMAN TECHNICAL TRAINING INSTITUTE  
BENGAURU



THE OXFORD COLLEGE OF ENGINEERING, BANGALURU  
for knowledge, no hiding, no shame, in extending the award to eligible students trained  
in KCTTU

- KCTTU shall prepare a consolidated list of students number/selected by TOCE and provided to the different partners and make available a copy of the same to TOCE as and when the process of admission for the program commences as appropriate.

7. Notices:

All notices, requests and other communications under the agreement or in connection therewith shall be given to the respective parties as follows:

To:  
Director,  
KARNATAKA GERMAN TECHNICAL TRAINING INSTITUTE (KCTTU),  
Near Nagasandra Metro Station, Behind Kemmanahalli,  
Majaluntha Nagar, Bengaluru,  
Bengaluru - 560073

To:  
Principal,  
THE OXFORD COLLEGE OF ENGINEERING (TOCE),  
10<sup>th</sup> Milestone, Hosur Road, Bommanahalli,  
Bengaluru - 560068

B. Review:

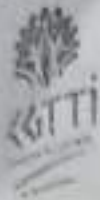
For smooth and efficient functioning and implementation of the MoU, both the parties shall meet at regular intervals on mutually agreed dates and review the program / progress and take action to remove the difficulties / constraints if any in implementing the MoU.



*C. P. Shivakumar*

Principal,  
The Oxford College of Engineering,  
10th Milestone, Hosur Road,  
Bommanahalli, Bengaluru - 560068





KARNATAKA GERMAN TECHNICAL TRAINING INSTITUTE  
BENGALURU  
&  
THE OXFORD COLLEGE OF ENGINEERING, BENGALURU



technologies including assistance in extending placement to eligible students trained in KGTT.

- KGTT shall prepare a consolidated list of students, number of selected by TOCE and enrolled to the different courses and make available a copy of the same to TOCE as and when the process of admission for the respective courses are completed.

**7. Notices:**

All notices, requests and other communications under this agreement or in connection therewith, shall be given to the respective parties as follows:

To,  
Director,  
KARNATAKA GERMAN TECHNICAL TRAINING INSTITUTE (KGTTI),  
Near Nagasandra Metro Station, Behind Kennametal,  
Manjunatha Nagara, Bagalagunte,  
Bengaluru - 560073

To,  
Principal,  
THE OXFORD COLLEGE OF ENGINEERING (TOCE),  
10<sup>th</sup> Milestone, Hosur Road, Bommarahalli,  
Bengaluru - 560068

**B. Review:**

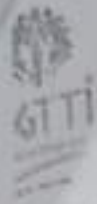
For smooth and efficient functioning and implementation of the MoU, both the parties shall meet at regular intervals on mutually agreed dates and review the program / progress and take action to remove the difficulties / constraints if any in implementing the MoU.



*C.R. Anand*

*M. S. Sathya*  
Principal  
The Oxford College of Engineering  
Bommarahalli, Bengaluru - 560068

Executed by \_\_\_\_\_



KARNATAKA GERMAN TECHNICAL TRAINING INSTITUTE  
BENGALURU  
&  
THE OXFORD COLLEGE OF ENGINEERING, BENGALURU



In witness whereof those present have been entered hereto, on the day and year first herein above, written under their respective seal of office

For KGTTI

For TOCE

Signature: *S. R. Sunil Nair*  
Authorized Signatory with Seal  
Name: Mr. SUNIL NAIR  
Title: DIRECTOR  
Date: 26.03.2021

Signature: *Dr. N. Kannan*  
Authorized Signatory with Seal  
Name: Dr. N. Kannan  
Title: Principal (TOCE)  
Date: 26.03.2021

Witness

Witness

Signature: *Harish S Mankur*  
Name: Mr. HARISH S MANKUR  
Designation: Sr. Engineer

Signature: *Dr. Vashodha B S*  
Name: Dr. VASHODHA B S  
Designation: Professor & HOD of Mechatronics Engg.

Signature: *Mrs. Swati Vijay Kadolkar*  
Name: Mrs. SWATI VIJAY KADOLKAR  
Designation: Engineer

Signature: *Dr. Madhusudan Reddy*  
Name: Dr. MADHUSUDAN REDDY  
Designation: Professor & HOD of Mechanical Engg.



KARNATAKA GERMAN TECHNICAL TRAINING INSTITUTE  
BENGALURU  
&  
THE ONWARD COLLEGE OF ENGINEERING, BENGALURU



- The training shall be conducted at KGTTI premises or at the premises of the TOCE if the KGTTI satisfies itself on the adequacy of the infrastructure to conduct such training programs.
- Subject to availability of adequate infrastructure, KGTTI can conduct sandwich courses wherein partial training can be conducted at TOCE premises or any other mutually agreed place with other associated activities conducted at KGTTI. The minimum & maximum student batch size for commencing a batch will be decided on mutually agreed numbers and it is as per the available seating capacity at KGTTI.
- The listed courses can vary from time to time and courses shall be added / deleted based on mutual convenience, in discussion by both the parties.
- The technical support in terms of presentations and publicity material shall be provided by KGTTI.

NOTE:

- The duration of training course per day is flexible to suit the requirements of the Institution / Students/Participants. This will be in mutual consultation between KGTTI and TOCE.
- Also, KGTTI has an open mind to conduct week-end courses i.e. on Saturday and Sunday provided TOCE mobilizes a full batch size of students in any of the streams that it would like to have the training.

7. Course Fee and mode of payment:

- The course fee at present is as reflected in Annexure - 1 for regular programs.
- Any changes in course fee in future will be communicated.
- For regular programs TOCE shall organize upfront collection of fee from the students mobilized and arrange remittance of the same to KGTTI. KGTTI offers a discount of 20% on the listed course in Annexure-1.
- Course fee to the students mobilized by TOCE in minimum number of participants as per the batch size.
- KGTTI shall issue an appropriate invoice / receipt.
- For SC/ST students from Karnataka, course fee is exempted for the listed courses as per Annexure-1.

Note: All payments shall be made in favour of the Director, KGTTI - Bengaluru.



*C.R. [Signature]*

I fully understand that the fees charged is a fair estimate of the expenditure incurred by KGTTI for utilizing the infrastructure, designing & developing the program content, acquiring the necessary principal licenses, hardware, providing the course material and for arranging lectures by certified experts in the current

Director  
The Onward College of Engineering  
Bengaluru



## **Brief Report ABOUT THE COMPANY**

**INTRODUCTION** In Karnataka German Technical Training Institute (KGTTI) is established by Karnataka German Multi-Skill Development Centre (KGMSDC) society. The primary mission of the Training Centre is to conduct a broad based multidisciplinary vocational training in various Industrial Technical Fields, directed towards the development of skills and trades and to become a world class training centre that represents specialized trade training programs in alignment with the Industry requirements across the globe. Sister institutes are set up at Bangalore, Belgaum, Gulbarga and Hubli. KGMSDC. This KGMSDC society is recognized by Government of India and Government of Karnataka with technical support of German International Services (GIZ-IF). KGMSDC is a registered society formed under Society Registration Act 1960. The registered society has members from Government of India and Government of Karnataka, complemented by local stakeholders and representatives of industries, chambers and academia.

**MISSION:** KGMSDCs will generate high quality skilled manpower in close association with the industry, while operating with operational flexibility and striving financial self-sustainability.

**VISION:** To develop KGMSDCs as world class training centres that offer specialized skills training programs in alignment with the Industry requirements in Karnataka and beyond.

## **STRENGTH**

Focus on Technology based services. State-of-the-art training labs and equipment's. Qualified, Experienced Professionals / Experts. Networking with expert organizations of national and international repute. Handling of prestigious job works for Aeronautical Development Agency. Dynamic work culture, professional staff, emphasis on result orientation and thrust on client satisfaction. Partners in representation CISCO(ag authorized academy)constant.

12/04/2021

## Memorandum of Understanding

Between

M/s. WEBBLITZ SOFTWARES  
No-2936 1<sup>st</sup> floor MKK Road Near Kuvempu Road Metro Station  
Rajajinagar 2<sup>nd</sup> Stage, Bengaluru, Karnataka - 560019

and

Department of MCA  
The Oxford College of Engineering,  
10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

This Memorandum of Understanding (MOU) sets for the terms and understanding between the M/s. M/s. WEBBLITZ SOFTWARES No-2936 1<sup>st</sup> floor MKK Road Near Kuvempu Road Metro Station Rajajinagar 2<sup>nd</sup> Stage, Bengaluru, Karnataka - 560019 and Department of MCA The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068. This MoU made on 12.04.2021 for One Year.

### Purpose

This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- support development of employability enhancing skills and traits that lead to overall success of students, teachers and their institution.
- promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- Create Placements - engagement and development opportunities for students and faculty through programmes, lectures, seminars, conferences, visits, events, study trips, internships.

The Head  
Department of MCA  
The Oxford College of Engineering  
Hosur Road, BANGALORE -

# WEBBLITZ SOFTWARES

The above goals will be accomplished by undertaking the following activities:  
On mutual consideration or collaboration, as any of the activities or  
agreed objectives agreed between both parties through a written notification.

Organise and host international events, conferences, seminars etc.  
that include visits by international executive speakers, experts, faculty,  
students invited by UECs in your city.

Collaborate with international and national conferences, seminars, events  
etc. by means of nominating experts / faculty from the institution as  
speakers, panelists etc.

Jointly apply for research grants for innovations.

Anything else not mentioned here but agreed between both parties through  
written notification from either party.

What does this MOU not provide unless agreed between both parties  
through a written notification from either party.

- Any form of financial commitment in the form of payments, donations,  
vouchers etc.

- Assignment of any IPRs, patents, etc.

All financial arrangements to be agreed separately agreed between both parties  
through a written notification.

## Lapse of MOU

- This MOU will lapse if there is no activity or engagement between both the  
parties for a continuous period of 12 months from the start of the agreement  
date and each anniversary thereafter.

## Duration

1 years from the date of signing. This MOU is at-will and may be modified by  
both parties through a written notification from authorised officials from each.



*[Signature]*  
The Head  
Department of MCA  
The Oxford College of Engineering  
Bangalore

# 2836, 1st Floor, MKX Road, Near Kuvempu Metro Station, Rajajinagar 2nd Stage, Bangalore - 560 010  
Website : <https://www.webblitz.co.in> / E-mail : [hr@webblitz.co.in](mailto:hr@webblitz.co.in) [info@webblitz.co.in](mailto:info@webblitz.co.in) Ph : 7406884263

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party. This MOU shall become effective upon signature by the authorized officials and will remain in effect until modified or terminated by any one of the parties through a written notification or the end of term of the MOU is reached.

### Authorized Signatories

M/s. M/s. WEBBLITZ SOFTWARES

No-2936 1<sup>st</sup> floor MKK Road Near Kuvempu Road Metro Station  
Rajainagar 2<sup>nd</sup> Stage, Bengaluru, Karnataka - 560010


1. Mr. Ragavendra G, MD  
Email: hr@webblitz.co.in  
Telephone: +91-7406884253

### Department of MCA

The Oxford College of Engineering,  
10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068


2. Dr. M S Shashidhara, Professor & Head  
Email: hodmca@ocean.oxford.edu  
Telephone: 080-61754650

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

A letter of agreement will include,  such things as:

1. Elaboration of the responsibilities of each institution for the agreed upon activity. Scheduled for specific activity.
2. Any other terms deemed necessary for the efficient management of the activity.

Signatures of concerning officials:

  
The Head,  
Department of MCA  
The Oxford College of Engineering  
Hosur Road, BANGALORE -

# 2936, 1st Floor, MKK Road, Near Kuvempu Metro Station, Rajainagar 2nd Stage, Bengaluru - 560 010  
Website: <http://www.webblitz.co.in> / E-mail: [hr@webblitz.co.in](mailto:hr@webblitz.co.in) / [info@webblitz.co.in](mailto:info@webblitz.co.in) Ph: 7406884253

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~~Name: M. Raghavendra G.~~



Date: 15/11/2021

Organization: M/s. WEBBLITZ SOFTWARES  
Designation: MD

*[Handwritten signature]*

Name: Dr. M.S. Shashidhara

The Head, Date:  
Department of MCA  
The Oxford College of Engineering  
Hosur Road, BANGALORE -

Organization: The Oxford College of Engineering  
Designation: Professor & Head

D







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

(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belgaum.  
Approved by AICTE, New Delhi.  
Recognised by UGC Under Section 2(f) i  
Bommanahalli, Hosur Road, Bengaluru - 560 086  
Ph: 080-6175480/602, Fax: 080 - 25730551  
E-mail: engg@oxfordcollegeofeng.edu.in | Web: www.oxfordcollegeofeng.edu.in

Whenever possible, courses will be team taught by one faculty member from **Kasiaex Solutions Private Limited** and Faculty members from **Department of MCA, The Oxford College of Engineering**. Courses may be taught at Department of MCA, at, or concurrently at both campuses through online capabilities. Students may engage in Internship Opportunities through placements by the host institution, providing they meet the legal criteria of the host country.

If two faculty members from each institution are engaged in collaborative research projects, Post Graduate Students at one institution may visit and work in the lab of the faculty member at the other institution and incorporate the work done as part of their dissertation research. When connected to funded research projects, the host institution will endeavor to provide a stipend for the visiting doctoral student.

**Responsibilities of home institution for academic semester or academic year exchanges:**

**The home institution will:**

- Register its own students for the duration of the exchange.
- Submit to the host institution the names and academic credentials of students who would like to participate in an exchange.
- Provide the host institution with names of courses that are essential to their own students' curricular plan.
- Ask the student to advise the host institution of any circumstances that may affect his or her year abroad (e.g. medical condition, disability status).
- Advise its students about academic and cultural expectations at the host institution.

**Responsibilities of the host institution for academic semester or academic year exchanges:**

**The host institution will:**

- Be responsible for admission decisions of students recommended by the home institution.
- Provide an orientation program for incoming students.
- Endeavor to ensure that students are admitted to courses regarded as essential to their academic programs at their home institutions.
- Assign an academic advisor to all incoming students.
- Assist the incoming student in securing housing.
- Inform the incoming student of health insurance requirements.
- Provide the home institution with a final transcript of the student's academic performance.

**Short intensive courses:**

Short intensive courses, offered during the summer or between semesters, will be taught by a faculty member from either **Department of MCA, The Oxford College of Engineering** or **Kasiaex Solutions Private Limited**. Students will pay no fee to their home institution.

The primary contacts for this MOU are for **Kasiaex Solutions Private Limited** and Provost for **Department of MCA, The Oxford College of Engineering**. As previously noted, the parties shall enter into specific written agreements whenever appropriate to clarify and define the nature, extent, and terms of operation for the proposed collaborations, including intellectual property ownership and funding issues.



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

(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Bangalore)  
Approved by AICTE, New Delhi  
Recognised by UGC Under Section 20(F)  
Bommanahalli, Hosur Road, Bangalore - 560068  
Ph: 080-6173160/602, Fax: 080-25730951  
E-mail: mgp@oxfordcollegeofengineering.edu Web: www.oxfordcollegeofengineering.edu

Any agreement entered into by these two institutions will require the approval of appropriate officers from each institution. All agreements and activities covered under this MOU or entered into by the parties must comply with all applicable laws and regulations, including all U.S. and (Country) export control laws and regulations.

For agreed upon activities, both institutions will make available their facilities and staffs. This MOU will take effect on and will be valid for five (5) years from the date noted in the first line of this document unless terminated by one of the parties. Either party may withdraw from this MOU provided written notification of the withdrawal is given to the other party at least three (3) months prior to the desired withdrawal date. This MOU may be renewed for another period of five (5) years upon mutual written consent of the parties before the expiration date. Each institution will have copies of this agreement.

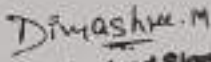
The following authorized individuals have signed the present MOU on behalf of their respective institutions:

  
Dr. MS Shashidhara  
HOD-MCA  
The Oxford College of Engineering  
Bangalore-560068

**The Head**  
**Department of MCA**  
**The Oxford College of Engineering,**  
**Hosur Road, BANGALORE -**

Divyashree Muddagangaiah  
Managing Director  
Kasiaex Solutions Private Limited  
Bangalore-560097

**For Kasiaex Solutions Private Limited**

  
**Authorized Signatory**

## Memorandum of Understanding

Between

M/s. WEBBLITZ SOFTWARES  
No-2936 1<sup>st</sup> floor MKK Road Near Kuvempu Road Metro Station  
Rajajinagar 2<sup>nd</sup> Stage, Bengaluru, Karnataka - 560010

and

Department of MCA  
The Oxford College of Engineering,  
10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

This Memorandum of Understanding (MOU) sets for the terms and understanding between the M/s. M/s. WEBBLITZ SOFTWARES No-2936 1<sup>st</sup> floor MKK Road Near Kuvempu Road Metro Station Rajajinagar 2<sup>nd</sup> Stage, Bengaluru, Karnataka - 560010 and Department of MCA The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068. This MoU made on 12.04.2021 for One Year .

### Purpose

This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to

- support development of employability enhancing skills and traits that lead to overall success of students, teachers and their institution.
- promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- Create Placements engagement and development opportunities for students and faculty through programmes, lectures, seminars, conferences, visits events, study trips, **internships**.

The Head  
Department of MCA  
The Oxford College of Engineering  
Hosur Road, BANGALORE -



# WEBBLITZ SOFTWARES

The above goals will be accomplished by undertaking the following activities:  
Mutual consideration to contribute to all of the activities will be agreed separately agreed between both parties through a written notification.

*Coincidence and host international events, conferences, seminars etc may include visits by international executive speakers, experts, faculty and students invited by UoE to your city*

*Coincidence with international and national conferences, seminars, events etc by means of nominating experts / faculty from the institution as speakers, panelists etc.*

*Jointly apply for research grants for Innovations*

*Anything else not mentioned here but agreed between both parties through written notification from either party.*

*What does this MOU not provide unless agreed between both parties through a written notification from either party*

- Any form of financial commitment in the form of payments, discounts, vouchers etc
- Assignment of any IPRs, patents, etc

*All financial arrangements to be agreed separately agreed between both parties through a written notification.*

## Lapse of MOU

- This MOU will lapse if there is no activity or engagement between both the parties for a continuous period of 12 months from the start of the agreement date and each anniversary thereafter.

## Duration

*1 years from the date of signing. This MOU is at-will and may be modified by both parties through a written notification from authorised officials from each*



*The Head  
Department of IICA  
The Oxford College of Engineering  
Floor 3rd*

# 2936, 1st Floor, MKX Road, Near Kuvempu Metro Station, Rajajinagar 2nd Stage, Bangalore - 560 010  
Website : <https://www.webblitz.co.in> / E-mail : [hr@webblitz.co.in](mailto:hr@webblitz.co.in) [info@webblitz.co.in](mailto:info@webblitz.co.in) Ph : 7406834253

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party. This MOU shall become effective upon signature by the authorized officials and will remain in effect until modified or terminated by any one of the parties through a written notification at the end of term of the MOU attached.

### Authorized Signatories

M/s. M/s. WEBBLITZ SOFTWARES  
No-2936 1<sup>st</sup> floor MKK Road Near Kuvempu Road Metro Station  
Rajajinagar 2<sup>nd</sup> Stage Bengaluru, Karnataka - 560010

1. Mr. Ragavendra G, MD  
Email: hr@webblitz.co.in  
Telephone: +91-7406884253

Department of MCA  
The Oxford College of Engineering,  
10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068


2. Dr. M S Shashidhara, Professor & Head  
Email: [hoslmca@occe.oxford.edu](mailto:hoslmca@occe.oxford.edu)  
Telephone: 080-61754650

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

A letter of agreement will include such terms as:

1. Elaboration of the responsibilities of each institution for the agreed upon activity. Scheduled for specific activity.
2. Any other terms deemed necessary for the efficient management of the activity.

Signatures of concerning officials

  
The Head,  
Department of MCA  
The Oxford College of Engineering,  
Hosur Road, BANGALORE -

# 2936, 1st Floor, MKK Road, Near Kuvempu Metro Station, Rajajinagar 2nd Stage, Bengaluru - 560 010.  
Website : <https://www.webblitz.co.in/> | E-mail : [hr@webblitz.co.in](mailto:hr@webblitz.co.in) | [info@webblitz.co.in](mailto:info@webblitz.co.in) | Ph: 7406884253

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# WEBBLITZ SOFTWARES

*[Signature]*  
Name: Mr. Raghavendra G.



Date: 15/11/2021

Organization: M/s. WEBBLITZ SOFTWARES  
Designation: MD

*[Signature]*

Name: Dr. MS Shashudhara

The Head,  
Department of MCA  
The Oxford College of Engineering  
Horus Road, BANGALORE -

Organization: The Oxford College of engineering  
Designation: Professor & Head

D





# Combined Institute of Technology



## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) is entered on 21<sup>st</sup> December, 2021

By & Between

Combined Institute of Technology, #65/1, G S Palaya Road, E-City Post, Bangalore-560100

and

MBA Department , The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommasahalli,  
Hosur Road, Bengaluru-560 068

This Memorandum of Understanding (MOU) sets for the terms and understanding between  
Combined Institute of Technology, #65/1, G S Palaya Road, E-City Post, Bangalore-560100  
and MBA Department , The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommasahalli,  
Hosur Road, Bengaluru-560 068



### Purpose:


This MOU aims to develop strategic association and explore long term collaboration opportunities between both parties to


- Support development of employability enhancing skills and traits that lead to overall success of students, teachers and their institution.
- Promote a global mindset through hands-on experiences and exposure to best practices from the best institutions in the world.
- Create development opportunities for students and faculty through programmes, Guest lectures, seminars, conferences, visits, events, study trips.

*Arko Das*  
HOD, Dept. of Business Administration  
The Oxford College of Engineering  
Bommasahalli, Hosur Road  
Bangalore 560 068

*Tanya*  
COMBINED INSTITUTE OF TECHNOLOGY  
#65/1, First Floor, G.S. Palaya Road,  
Electronic City, Bangalore - 560 100.  
www.citgurur.com | info@citgurur.com

 www.citgurur.com  
 info@citgurur.com

 9916598045

 #65/1, G S Palaya Road,  
E-City Post, Bengaluru.

The above goals will be accomplished by undertaking the following activities. Any financial consideration or expenses relating to any of the activities will be agreed separately agreed between both parties through a written notification.

- Co-organise and host events, conferences, seminars and Guest lectures that may include nominating experts/visits by executive speakers, experts, faculty and students.
- Anything else not mentioned here but agreed between both parties through a written notification from either party

**What does this MOU not provide unless agreed between both parties through a written notification from either party**

- Any form of financial commitment in the form of payments, discounts, vouchers etc
  - Assignment of any IPRs, patents, etc
- All financial arrangements to be agreed separately agreed between both parties through a written notification.

#### **Lapse of MOU**

- This MOU will lapse if there is no activity or engagement between both the parties for a continuous period of 36 months from the start of the agreement date and each anniversary thereon.

#### **Duration**


Three years from the date of signing and shall be renewed for every year. This MOU is at-will and may be modified by both parties through a written notification from authorised officials from each party. This MOU shall become effective upon signature by the authorised officials and will remain in effect until modified or terminated by any one of the parties through a written notification or the end of term of the MOU is reached.

#### **Authorised Signatories:**

Ms. Shivani Tanya, Director

**Combined Institute of Technology, #65/1, G S Palva Road, E-City Post, Bangalore-560100**

Ph: 89582853809

  
HOD, Dept. of Business Administration  
The Oxford College of Engineering  
Bommarahalli, Hosur Road  
Bangalore 560 068

  
COMBINED INSTITUTE OF TECHNOLOGY  
# 65/1, First Floor, G.S. Palva Road,  
Electronic City, Bangalore - 560 100.  
www.citguru.com | info@citguru.com

**Department of MBA**

The Oxford College of Engineering, 10<sup>th</sup> Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

Dr. K Tharaka Rami Reddy

HOD-MBA, Email : [hodmba@theoxford.edu](mailto:hodmba@theoxford.edu)

Telephone:9741633223

Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties.

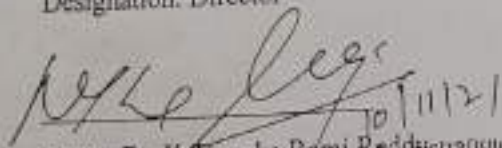
A letter of agreement will include such items as:

1. Elaboration of the responsibilities of each institution for the agreed upon activity.  
Scheduled for specific activity
2. Any other terms deemed necessary for the efficient management of the activity.

**Signatures of concerning officials**

  
Name: Ms. S. Srinivas  
Organization: **Combined Institute of Technology**  
Designation: Director

Date: 10.11.2021

  
Name: Dr. K. Tharaka Rami Reddy  
HOD, Dept. of Business Administration  
HOD-MBA Oxford College of Engineering  
Organization: **The Oxford College of Engineering**

Date: 10.11.2021