



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office

1st Phase, JP Nagar, Bengaluru - 560 078

☎: 080-61754601 - 5021 Fax: 080-2654 8058

THE OXFORD COLLEGE OF ENGINEERING

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

Approved by AICTE, New Delhi/Recognized by UGC Under Section 2(F)

Accredited by NBA, New Delhi, ISAC 'A' Grade with score of 3.2 (All-round Rating by 1241 colleges)

Bommanahalli, Hosur Road, Bangalore - 560078, ☎: 080-61754601/002

E-mail: enquiries@theoxford.edu Web: www.theoxfordgroup.edu

PROJECT WORK/INTERNSHIP/ FIELD VISIT REPORT FOR THE YEAR

2023-24

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PRINCIPAL

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



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☎: 080-61754501 – 502 Fax: 080-2654 8658

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Bommanahalli, Hosur Road, Bangalore – 560068. ☎: 080-61754601/602

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

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!

Mini Project

A mini-project is a short, practical problem which requires for its solution the application of the knowledge and skills developed in previously completed set experiments.

Social Connect Responsibility

Social Connect Responsibility focuses on interacting with others and the natural world in respectful and caring ways.



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2023-24

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 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	18CSI85	Internship	(Completed during the intervening vacations of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
TOTAL					06	--	04	15	260	240	500	18
Note: PCC: Professional Core, PEC: Professional Elective, OEC: Open Elective, INT: Internship.												
Professional Electives – 4												
Course code under 18CS82X		Course Title										
18CS821		Mobile Computing										
18CS822		Storage Area Networks										
18CS823		NoSQL Database										
18CS824		Multicore Architecture and Programming										
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:												
(i) Single discipline: 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) Interdisciplinary: 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 students belong to.												
Internship: 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	18CSI85	Internship	(Completed during the intervening vacations of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
TOTAL					06	--	04	15	260	240	500	18
Note: PCC: Professional Core, PEC: Professional Elective, OEC: Open Elective, INT: Internship.												
Professional Electives – 4												
Course code under 18CS82X		Course Title										
18CS821		Mobile Computing										
18CS822		Storage Area Networks										
18CS823		NoSQL Database										
18CS824		Multicore Architecture and Programming										
Project Work CIE procedure for Project Work Phase - 2:												
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(ii) Interdisciplinary: 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.												
Internship: 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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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 Lecture	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	18ECP83	Project Work Phase - 2		--	--	2	03	40	60	100	8
4	Seminar	18ECS84	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
TOTAL					06	--	04	15	260	240	500	18
Note: PCC: Professional Core, PEC: Professional Elective.												
Professional Elective - 4												
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 Lecture	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	--	--	03	40	60	100	3
2	PEC	18EE82X	Professional Elective - 4	EEE	3	--	--	03	40	60	100	3
3	Project	18EEP83	Project Work Phase - 2		--	--	2	03	40	60	100	8
4	Seminar	18EE84	Technical Seminar		--	--	2	03	100	--	100	1
5	Internship	18EE85	Internship	Completed during the vacation/s of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
TOTAL					06	--	04	15	260	240	500	18

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.

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SEE for Project Work Phase - 2:



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ME

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(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	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	18XXI85	Internship	Completed during the vacation/s of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
TOTAL					06	--	04	15	260	240	500	18
Note: PCC: Professional Core, PEC: Professional Elective.												
Professional Electives - 4												
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							
Project Work												
CIE procedure for Project Work Phase - 2:												
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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/Lecture	Tutorial	Practical/Drawing	Duration in hours	CIE Marks	SEE Marks		Total Marks
	L	T	P									
1	PCC	18BT81	Regulatory Affairs in Biotech Industry	Biotech	3	--	--	03	40	60	100	3
2	PEC	18BT82X	Professional Elective - 4	Biotech	3	--	--	03	40	60	100	3
3	Project	18BT83	Project Work Phase - 2	-	--	--	2	03	40	60	100	8
4	Seminar	18BT84	Technical Seminar	-	--	--	2	03	100	--	100	1
5	Internship	18BT85	Internship	Completed during the vacation/s of VI and VII semesters and/or VII and VIII semesters.				03	40	60	100	3
TOTAL					06	--	04	15	260	240	500	18
Note: PCC: Professional Core, PEC: Professional Elective.												
Professional Electives - 4												
Course code under 18BT82X		Course Title										
18BT821		Environmental Biotechnology										
18BT822		Industrial Microbiology										
18BT823		Marine Biotechnology										
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.												
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(ii) Interdisciplinary: 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.												
Internship: 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.												
AICTE activity Points: 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 Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P					
1	PCC	18CV81	Design of Pre-stressed Concrete	Civil Engg.	3	--	--	03	40	60	100	3
2	PEC	18CV82X	Professional Elective - 4	Civil Engg.	3	--	--	03	40	60	100	3
3	Project	18CVP83	Project Work Phase - 2	Civil Engg.	--	--	16	03	40	60	100	8
4	Seminar	18CVS84	Technical Seminar	Civil Engg.	--	--	2	03	100	--	100	1
5	Internship	18CVI85	Internship	Completed during the vacation/s of VI and VII semesters and /or VII and VIII semesters.)			03	40	60	100	3	
TOTAL					06	--	18	15	260	240	500	18
Note: PCC: Professional Core, PEC: Professional Elective.												
Professional Electives - 4												
Course code under 18CV82X		Course Title										
18CV821		Bridge Engineering										
18CV822		Prefabricated Structures										
18CV823		Advanced Foundation Engineering										
18CV824		Rehabilitation & Retrofitting										
18CV825		Pavement Design										
Project Work												
CIE procedure for Project Work Phase - 2:												
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THE OXFORD COLLEGE OF ENGINEERING

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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	18MTI85	Internship	Completed during the vacation/s of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
TOTAL					06	--	04	15	260	240	500	18
Note: PCC: Professional Core, PEC: Professional Elective.												
Professional Electives - 4												
Course code under 18XX82X		Course Title										
18 MT821		Operation Research.										
18 MT822		Communication system										
18 MT823		Digital Control System										
18 MT824		Management Information Systems										
18 MT825		Radar Engineering										
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												



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2023-24

PG

CSE-Artificial Intelligence and Machine Learning

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examinations – 2022											
M. Tech in Artificial Intelligence and Machine Learning (SAM)											
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)											
III SEMESTER											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination				Credits
				Theory	Practical/ Mini-Project/ Internship	Skill Development Activities(Hours are for interaction between faculty and students)	Duration in hours	CE Marks	SEE Marks	Total Marks	
				L	P	SDA					
1	PCC	22SAM31	High Performance Computing	03	00	02	03	50	50	100	4
2	PEC	22SAM32X	Professional Elective 3	03	00	00	03	50	50	100	3
3	OEC	22SAM33X	Professional Elective 4	03	00	00	03	50	50	100	3
4	PROJ	22SAM34	Project Work phase -1	00	06	00	--	100	--	100	3
5	SP	22SAM35	Societal Project	00	06	00	--	100	--	100	3
6	INT	22SAMI36	Internship	(06 weeks Internship Completed during the intervening vacation of II and III semesters.)			03	50	50	100	6

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TOTAL	09	12	03	12	400	200	600	22
Note: PCC: Professional core Courses, PEC: Professional Elective Courses, PROJ-Project Work, INT-Internship, OEC Open Elective Courses, SP- Societal Project								



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examinations – 2022										
M. Tech in Artificial Intelligence and Machine Learning (SAM)										
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)										
IV SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	
1	Project	22SAM41	Project work phase-2	--	08	03	100	100	200	18
TOTAL				--	08	03	100	100	200	18
Note: 1. Project Work Phase-2: Students in consultation with the guide/co-guide (if any) in disciplinary project or guides/co-guides (if any) of all departments in case of multidisciplinary projects, shall continue to work of Project Work phase -1 to complete the Project work. Each student / batch of students shall prepare project document, and present a seminar. CIE marks shall be awarded by a committee comprising of HoD as Chairman, all Guide/s and co-guide/s (if any) and a senior faculty of the concerned departments. The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill, and performance in the Question and Answer session in the ratio of 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.										

Total Credits 22+18+22+18 =80

EC-VLSI Design & Embedded Systems

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examinations – 2022											
M.Tech., VLSI Design and Embedded Systems (LVS)											
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)											
III SEMESTER											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination				Credits
				Theory	Practical/ Mini-Project/ Internship	Tutorial/ Skill Development	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	POC	22LV531	CAD of Digital Systems	03	00	02	03	50	50	100	4
2	PBC	22LV532X	Professional Elective 3	03	00	00	03	50	50	100	3
3	PBC	22LV533X	Professional Elective 4	03	00	00	03	50	50	100	3
4	PROJ	22LV534	Project Work Phase -1	00	06	00	--	100	--	100	3
5	SP	22LV535	Societal Project	00	06	00	--	100	--	100	3
6	INT	22LV536	Internship	06 weeks Internship Completed during the intervening vacation of II and III semesters.)			03	50	50	100	6
TOTAL				09	12	02	03	400	200	600	22
Note: POC- Professional core courses, PBC- Professional Elective Courses, IPOC- Integrated Professional Core Courses, MPS- Mini Project With Seminar, AUD/ABC: Audit Courses / Ability Enhancement Courses (Mandatory), POCL- Professional Core Course Lab, L-Lecture, P-Practical, T/SDA-Tutorial / Skill Development Activities (Hours are for interaction between faculty and students)											



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examinations – 2022											
M.Tech., VLSI Design and Embedded Systems (LVS)											
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)											
IV SEMESTER											
Sl No	Course	Course Code	Course Title	Teaching Hours /Week			Examination				Credits
				Theory	Practical / Field	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks		
										L	
1	Project	22LVS41	Project work phase -2	--	08	03	100	100	200	18	
TOTAL				--	08	03	100	100	200	18	
Note:											
1. Project Work Phase-2:											
Students in consultation with the guide/co-guide (if any) in disciplinary project or guides/co-guides (if any) of all departments in case of multidisciplinary projects, shall continue to work of Project Work phase -1to complete the Project work. Each student / batch of students shall prepare project document, and present a seminar.											
CIE marks shall be awarded by a committee comprising of HoD as Chairman, all Guide/s and co-guide/s (if any) and a senior faculty of the concerned departments. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report, Project Presentation skill, and performance in the Question and Answer session in the ratio of 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.											

Total Credits 22+18+22+18 =80

CV

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examinations – 2022 - 24											
M.Tech STRUCTURAL ENGINEERING (CSE)											
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)											
III SEMESTER											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination				Credits
				Theory	Practical/ Mini-Project/ Internship	Skill Development activities	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	22CSE31	Design of Bridges	03	--	02	03	50	50	100	4
2	PEC	22CSE32X	Professional elective 3	03	--	--	03	50	50	100	3
3	OEC	22CSE33X	Professional Elective Course-4	03	--	--	03	50	50	100	3
4	PROJ	22CSE34	Project Work phase -1	00	06	00	--	100	--	100	3
5	SP	22CSE35	Societal Project	00	06	00	--	100	--	100	3
6	INT	22CSEI36	Internship	(06 weeks Internship Completed during the intervening vacation of II and III semesters.)			03	50	50	100	6
TOTAL				09	12	02	12	400	200	600	22



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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI										
Scheme of Teaching and Examinations – 2022 - 24										
M.Tech STRUCTURAL ENGINEERING (CSE)										
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)										
IV SEMESTER										
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/Field work	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	
				L	P					
1	Project	22CSE41	Project work phase -2	–	08	03	100	100	200	18
TOTAL				–	08	03	100	100	200	18

Note:
1. Project Work Phase-2:
 Students in consultation with the guide/co-guide (if any) in disciplinary project or guides/co-guides (if any) of all departments in case of multidisciplinary projects, shall continue to work of Project Work phase -1 to complete the Project work. Each student / batch of students shall prepare project document, and present a seminar.
 CIE marks shall be awarded by a committee comprising of HoD as Chairman, all Guide/s and co-guide/s (if any) and a senior faculty of the concerned departments. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report, Project Presentation skill, and performance in the Question and Answer session in the ratio of 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.

Total Credits 22+18+22+18 = **80**



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MBA

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI							
Scheme of Teaching and Examinations – 2022-23							
MASTER OF BUSINESS ADMINISTRATION (MBA)							
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)							
III SEMESTER							
Core Courses							
Subject Code				Title of the Subject			
22MBA301				Logistics & Supply Chain Management			
22MBA302				Information Technology for Managers			
Specialisation Courses							
Marketing Professional Elective Courses		Finance Professional Elective Courses		Human Resource Professional Elective Courses		Business Analytics Professional Elective Courses	
Subject Code	Title of the Subject	Subject Code	Title of the Subject	Subject Code	Title of the Subject	Subject Code	Title of the Subject
22MBAM M303	Consumer Behaviour	22MBAFM 303	Strategic Cost Management	22MBAHR 303	Recruitment & Selection	22MBABA303	Introduction to Python data and Control systems.
22MBAM M304	Sales & Retail Management	22MBAFM 304	Security Analysis & Portfolio Management	22MBAHR 304	Industrial Relations & Legislations	22MBABA304	Exploratory data analysis for business
22MBAM M305	Services Marketing	22MBAFM 305	Advanced Financial Management	22MBAHR 305	Organizational Change & Development	22MBABA305	Business Analytics and Intelligence
22MBAM M306	Rural Marketing	22MBAFM 306	Banking & Services Operations	22MBAHR 306	Compensation & Reward Management	22MBABA306	Big Data
22MBAIN 307	Internship	22MBAIN3 07	Internship	22MBAIN3 07	Internship	22MBAIN307	Internship



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Scheme of Teaching and Examinations – 2022-23							
MASTER OF BUSINESS ADMINISTRATION (MBA)							
Choice Based Credit System (CBCS) and Outcome Based Education (OBE)							
IV SEMESTER							
Core Courses							
Subject Code		Title of the Subject					
22MBA401		International Business					
22MBA402		Innovation & Design Thinking					
Specialisation Courses							
Marketing Professional Elective Courses		Finance Professional Elective Courses		Human Resources Professional Elective Courses		Business Analytics Professional Elective Courses	
Subject Code	Title of the Subject	Subject Code	Title of the Subject	Subject Code	Title of the Subject	Subject Code	Title of the Subject
22MBA MM403	Strategic Brand Management	22MBA FM403	Global Financial Management	22MBAH R403	Conflict & Negotiation Management	22MBABA 403	Machine Learning
22MBA MM404	Integrated Marketing Communication	22MBA FM404	Mergers Acquisitions & Corporate Restructuring	22MBAH R404	Global HRM	22MBABA 404	HR Analytics
22MBA MM405	Digital & Social Media Marketing	22MBA FM405	Risk Management & Insurance	22MBAH R405	Personal Growth & Interpersonal Effectiveness	22MBABA 405	Marketing, Web & Social Media Analysis
22MBA MM406	Business Marketing	22MBA FM406	Indirect taxation	22MBAH R406	Strategic Talent Management	22MBABA 406	Financial Analytics
22MBA PR407*	Project Report	22MBA PR407*	Project Report	22MBAP R407*	Project Report	22MBAPR 407*	Project Report



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MCA

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examinations – 2022											
Master of Computer Applications (MCA)											
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)											
III SEMESTER											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination			Credits	
				Theory	Practical/Seminar	Skill Development Activities (Hours are for interaction between faculty and students)	Duration in hours	CIE Marks	SEE Marks		Total Marks
				L	P	SDA					
1	PCC	22MCA31	Data Analytics Using Python	03	–	–	03	50	50	100	3
2	PCC	22MCA32	Internet of Things	03	–	–	03	50	50	100	3
3	PEC	22MCA33X	Professional Elective 3	02	–	02	03	50	50	100	3
4	OEC	22MCA34X	Professional Elective 4	02	–	02	03	50	50	100	3
5	PROJ1	22MCAL35	Project Work Phase 1	–	02	–	–	100	–	100	2
6	PCCL	22MCAL36	Data Analytics Lab with Mini-project	–	02	–	03	50	50	100	2
7	PCCL	22MCAL37	IoT Laboratory with Mini Project	–	02	–	03	50	50	100	2
8	SP	22MCAL38	Societal Project	–	02	–	–	100	–	100	2
9	INT	22MCA39	Internship	06 weeks internship Completed during the intervening vacation of II and III semesters or/ and III and IV semesters)			03	50	50	100	6
TOTAL				10	08	02	21	550	350	900	26

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examinations – 2022											
Master of Computer Applications (MCA)											
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)											
IV SEMESTER											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination			Credits	
				Theory	Practical/Seminar	Skill Development Activities (Hours are for interaction between faculty and students)	Duration in hours	CIE Marks	SEE Marks		Total Marks
				L	P	SDA					
1	PEC	22MCA41X	Professional Elective 5	02	–	02	03	50	50	100	3
2	PEC	22MCA42X	Professional Elective 6	03	–	02	03	50	50	100	3
3	SEM	22MCA43	Technical SEMINAR	–	02	–	03	50	50	100	2
4	PROJ 2	22MCA44	Project work phase -2	–	05	–	03	100	100	200	16
TOTAL				08	07	05	15	300	300	600	24

Note: PCC: Professional core Courses, PEC: Professional Elective Courses. PROJ-Project Work, INT-Internship, OEC Open Elective Courses, SP- Societal Project



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2023-24

UG

Mini-Project and Societal Internship and Societal Project (Societal Internship same course code for all branches so highlighted once)

CSE

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
B.E. in Computer Science and Engineering												
Scheme of Teaching and Examinations 2021												
Outcome-Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2021 - 22)												
VI SEMESTER												
Sl. No	Course and Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination			Credits	
				Theory Lecture	Tutorial	Practical/ Drawing	Self Study	Duration in hours	OE Marks	SEE Marks		Total Marks
				L	T	P	S					
1	HSMC 21CS61	Software Engineering & Project Management	Any CS Board Department	2	2	0		03	50	50	100	3
2	IPCC 21CS62	Fullstack Development		3	0	2		03	50	50	100	4
3	PCC 21CS63	Computer Graphics and Fundamentals of Image Processing		3	0	0		03	50	50	100	3
4	PEC 21X064x	Professional Elective Course-I		3	0	0		03	50	50	100	3
5	OEC 21X065x	Open Elective Course-I	Concerned Department	3	0	0		03	50	50	100	3
6	PCC 21CSL66	Computer Graphics and Image Processing Laboratory	Any CS Board Department	0	0	2		03	50	50	100	1
7	MP 21CSMP67	Mini Project		Two contact hours /week for interaction between the faculty and students.				--	100	--	100	2
8	INT 21INT68	Innovation/Entrepreneurship /Societal Internship	Completed during the intervening period of IV and V semesters.				--	100	--	100	3	
								Total	500	300	800	22



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ISE

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
B.E. in Information Science and Engineering												
Scheme of Teaching and Examinations 2021												
Outcome-Based Education (OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2021 - 22)												
VI SEMESTER												
Sl. No	Course and Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
				Theory Lecture	Tutorial	Practical/ Drawing	Self-Study	Duration in hour	OE Marks	SEE Marks	Total Marks	
				L	T	P	S					
1	HSMC 21CS61	Software Engineering and Project Management	Any CS Board Department	2	2	0		03	50	50	100	3
2	IPCC 21CS62	Fullstack Development		3	0	2		03	50	50	100	4
3	PCC 21IS63	Software Testing		3	0	0		03	50	50	100	3
4	PEC 21XG4x	Professional Elective Course-I		3	0	0		03	50	50	100	3
5	OEC 21XG5x	Open Elective Course-I	Concerned Department	3	0	0		03	50	50	100	3
6	PCC 21ISL66	Software Testing Laboratory	Any CS Board Department	0	0	2		03	50	50	100	1
7	MP 21ISM67	Mini Project		Two contact hours /week for interaction between the faculty and students.				--	100	--	100	2
8	INT 21INT68	Innovation/Entrepreneurship /Societal Internship	Completed during the intervening period of IV and V semesters.					--	100	--	100	3
Total								500	300	800	22	



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ECE

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
B.E. in Electronics and Communication Engineering (ECE)												
Scheme of Teaching and Examinations 2021												
Outcome-Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2021 - 22)												
VI SEMESTER												
Sl. No	Course and Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination			Credits	
				Theory Lecture	Tutorial	Practical/ Drawing	Self-Study	Duration in hours	OE Marks	SET Marks		Total Marks
				L	T	P	S					
1	HSMC 21EC61	Technological Innovation Management and Entrepreneurship	Any Department	3	0	0	0	03	50	50	100	3
2	IPCC 21EC62	(Microwave Theory & Antennas)	TD: ECE PSB: ECE	3	0	2		03	50	50	100	4
3	PCC 21EC63	VLSI Design & Testing	TD: ECE PSB: ECE	3	0	0		03	50	50	100	3
4	PEC 21EC64x	Professional Elective Course-I	TD: ECE PSB: ECE					03	50	50	100	3
5	OEC 21EC65x	Open Elective Course-I	Concerned Department					03	50	50	100	3
6	PCC 21ECL66	VLSI Laboratory		0	0	2		03	50	50	100	1
7	MP 21ECMPG7	Mini Project		Two contact hours /week for interaction between the faculty and students.				–	100	–	100	2
8	INT 21INT68	Innovation/Entrepreneurship /Societal Internship	Completed during the intervening period of IV and V semesters.					–	100	–	100	3
Total									500	300	800	22



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EEE

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI													
B.E. in Electrical and Electronic Engineering													
Scheme of Teaching and Examinations 2021													
Outcome-Based Education(OBE) and Choice Based Credit System (CBCS)													
(Effective from the academic year 2021 - 22)													
VI SEMESTER													
Sl. No	Course and Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board	Teaching Hours /Week					Examination				Credits
				Theory Lecture	Tutorial	Practical/ Drawing	Self-Study	Duration in hours	CIE Marks	SEE Marks	Total Marks		
				L	T	P	S						
1	HSMC 21EE61	Management and Entrepreneurship	HSME/EE	3	0	0		03	50	50	100	3	
2	IPCC 21EE62	Power System Analysis - 2	EE	3	0	2		03	50	50	100	4	
3	PCC 21EE63	Signals and Digital Signal Processing	EE	2	2	0		03	50	50	100	3	
4	PFC 21EE64x	Professional Elective Course-I	EE	3	0	0		03	50	50	100	3	
5	OEC 21EE65x	Open Elective Course-I	Concerned Department	3	0	0		03	50	50	100	3	
6	PCC 21EEL66	Digital Signal Processing Laboratory	EE	0	0	2		03	50	50	100	1	
7	MP 21EEMP67	Mini Project	EE	Two contact hours /week for interaction between the faculty and students.				–	100	–	100	2	
8	INT 21INT68	Innovation/Entrepreneurship /Societal Internship	Completed during the intervening period of IV and V semesters.				–	100	–	100	3		
Total								500	300	800	22		



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ME

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
B.E. in MECHANICAL ENGINEERING												
Scheme of Teaching and Examinations 2021												
Outcome-Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2021 - 22)												
VI SEMESTER												
Sl No	Course and Course Code	Course Title	Department (TD) and Question Paper Setting Board	Teaching Hours /Week				Examination			Credits	
				Theory Lecture	Tutorial	Practical	Self-Study	Duration in hours	CIE Marks	SEE Marks		Total Marks
				L	T	P	S					
1	HSMC 21ME61	Production and Operations Management	TD: ME PSB: ME	3	0	0	0	03	50	50	100	3
2	IPCC 21ME62	Heat Transfer	TD: ME PSB: ME	3	0	2	0	03	50	50	100	4
3	PCC 21ME63	Machine design	TD: ME PSB: ME	2	2	0	0	03	50	50	100	3
4	PEC 21ME64x	Professional Elective Course-I	TD: ME PSB: ME	3	0	0	0	03	50	50	100	3
5	OEC 21ME65x	Open Elective Course-I	TD: ME PSB: ME	3	0	0	0	03	50	50	100	3
6	PCC 21MEL66	CNC Programming and 3-D Printing Lab	TD: ME PSB: ME	0	0	2	0	03	50	50	100	1
7	MP 21MEMP67	Mini Project		Two contact hours /week for interaction between the faculty and students.				--	100	--	100	2
8	INT 21INT68	Innovation/Entrepreneurship /Societal Internship	Completed during the intervening period of IV and V semesters.				--	100	--	100	3	
Total									500	300	800	22



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BT

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
B.E. in BIOTECHNOLOGY												
Scheme of Teaching and Examinations 2021												
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2021 - 22)												
VI SEMESTER												
Sl. No	Course and Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
				Theory Lecture	Tutorial	Practical/ Drawing	Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	
				L	T	P	S					
1	HSMC21BT61	Biobusiness Management and Entrepreneurship	Any Department	3	0	0	1	03	50	50	100	3
2	IPCC21BT62	Bioprocess Principles, Control & Automation + Lab	TD: BT PSB: BT	3	0	2	0	03	50	50	100	4
3	PCC21BT63	Enzyme Technology	TD: BT PSB: BT	3	0	0	0	03	50	50	100	3
4	PEC21BT64x	Professional elective course-I	TD: BT PSB: BT	3	0	0	1	03	50	50	100	3
5	OEC21BT65x	Open elective course-I	TD: BT PSB: BT	3	0	0	1	03	50	50	100	3
6	PCC21BTL66	Enzyme Technology lab	TD: BT PSB: BT	0	0	2	0	03	50	50	100	1
7	MP21BTMP67	Mini project	BT	Two contact hours /week for interaction between the faculty and students.				--	100	--	100	2
8	INT21INT68	Innovation/Entrepreneurship /Societal Internship	Completed during the intervening period of IV and V semesters.				--	100	--	100	3	
Total									500	300	800	22



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CV

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
B.E. in Civil Engineering												
Scheme of Teaching and Examinations 2021												
Outcome-Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2021 - 22)												
VI SEMESTER												
Sl. No	Course and Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
				Theory Lecture	Tutorial	Practical/ Drawing	Self Study	Duration in hour	OE Marks	SEE Marks	Total Marks	
				L	T	P	S					
1	HSMC 21CV61	Construction Management and Entrepreneurship	TD: Civil Engg PSB: Civil Engg	3	0	0		03	50	50	100	3
2	IPCC 21CV62	Concrete Technology	TD: Civil Engg PSB: Civil Engg	2	2	2		03	50	50	100	4
3	PCC 21CV63	Design of Steel structure	TD: Civil Engg PSB: Civil Engg	2	2	0		03	50	50	100	3
4	PEC 21CV64x	Professional Elective Course-I	TD: Civil Engg PSB: Civil Engg					03	50	50	100	3
5	OEC 21CV65x	Open Elective Course-I	Concerned Department					03	50	50	100	3
6	PCC 21CV166	Computer Aided Detailing of Structure	TD: Civil Engg PSB: Civil Engg	0	0	2		03	50	50	100	1
7	MP 21CVM67	Mini Project	TD: Civil Engg PSB: Civil Engg	Two contact hours /week for interaction between the faculty and students.				--	100	--	100	2
8	INT 21INT68	Innovation/Entrepreneurship /Societal Internship	Completed during the intervening period of IV and V semesters.				--	100	--	100	3	
Total								500	300	800	22	



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MT

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
B.E. in Mechatronics Engineering											
Scheme of Teaching and Examinations 2021											
Outcome-Based Education(OBE) and Choice Based Credit System (CBCS)											
(Effective from the academic year 2021 - 22)											
VI SEMESTER											
Sl. No	Course and Course Code	Course Title	Teaching Department (TD) and Question and Answer Paper Setting Board (PSB)	Teaching Hours /Week				Examination			
				Theory Lecture	Tutorial	Practical/ Drawing	Self - Study	Duration in Hours	CIE Marks	SEE Marks	Total Marks
				L	T	P	S				
1	HSMC 21MT61	Condition Monitoring and Maintenance Management	Any Department	3	0	0		03	50	50	100
2	IPCC 21MT62	Programmable Logic Controller and SCADA Technology	TD: MT PSB: MT	3	0	2		03	50	50	100
3	PCC 21MT63	Industrial Robotics	TD: MT PSB: MT	3	0	0		03	50	50	100
4	PEC 21MT64x	Professional Elective Course-I	TD: MT PSB: MT	3	0	0		03	50	50	100
5	OEC 21XX65x	Open Elective Course-I	Concerned Department	3	0	0		03	50	50	100
6	PCC 21MTL66	Robotics Lab	TD: MT PSB: MT	0	0	2		03	50	50	100
7	MP 21MTMP67	Mini Project		Two contact hours /week for interaction between the faculty and students.				–	100	–	100
8	INT 21INT68	Innovation/Entrepreneurship/ Societal Internship	Completed during the intervening period of IV and V semesters.				–	100	–	100	
								Total	500	300	800



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AIML

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI												
B.E. in Artificial Intelligence and Machine Learning												
Scheme of Teaching and Examinations 2021												
Outcome-Based Education (OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2021 - 22)												
VI SEMESTER												
Sl. No	Course and Course Code	Course Title	Teaching Department (TO) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination			Credits	
				Theory Lecture	Tutorial	Practical/ Drawing	Self Study	Duration in hour	OE Marks	SEE Marks		Total Marks
				L	T	P	S					
1	HSMC 21CS61	Software Engineering and Project Management	Any CS Board Department	2	2	0		03	50	50	100	3
2	IPCC 21AD62	Data Science and its Applications		3	0	2		03	50	50	100	4
3	PCC 21AI63	Machine Learning		3	0	0		03	50	50	100	3
4	PEC 21X054x	Professional Elective Course-I		3	0	0		03	50	50	100	3
5	OEC 21X065x	Open Elective Course-I	Concerned Department	3	0	0		03	50	50	100	3
6	PCC 21AIL66	Machine Learning Laboratory	Any CS Board Department	0	0	2		03	50	50	100	1
7	MP 21AIMPS7	Mini Project		Two contact hours /week for interaction between the faculty and students.				--	100	--	100	2
8	INT 21INT68	Innovation/Entrepreneurship /Societal Internship	Completed during the intervening period of IV and V semesters.				--	100	--	100	3	
Total								500	300	800	22	



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MBA

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examinations – 2022 – 23											
MASTER OF BUSINESS ADMINISTRATION (MBA)											
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)											
II SEMESTER											
Sl. No	Course	Course Code	Course Title	Teaching Hours per Week		Examination				Credits	
				Theory	Practical Component	Duration in hours	CIE Marks	SEE Marks	Total Marks		
1	PCC	22MBA21	Human Resources Management	04	00	03	50	50	100	04	
2	PCC	22MBA22	Financial Management	04	00	03	50	50	100	04	
3	PCC	22MBA23	Research Methodology and IPR	04	00	03	50	50	100	04	
4	PCC	22MBA24	Operations Research	04	00	03	50	50	100	04	
5	PCC	22MBA25	Strategic Management	04	00	03	50	50	100	04	
6	PCC	22MBA26	Managerial Economics	04	00	03	50	50	100	04	
7	SEC	22MBA27	Societal Project	Audit Course without any Credits							
TOTAL				24	00	18	300	300	600	24	

MCA

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examinations – 2022											
Master of Computer Applications (MCA)											
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)											
III SEMESTER											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination				Credits
				Theory	Practical/Seminar	Skill Development Activities (hours are for interaction between faculty and students)	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	22MCA31	Data Analytics Using Python	03	–	–	03	50	50	100	3
2	PCC	22MCA32	Internet of Things	03	–	–	03	50	50	100	3
3	PEC	22MCA33X	Professional Elective 3	02	–	02	03	50	50	100	3
4	OEC	22MCA34X	Professional Elective 4	02	–	02	03	50	50	100	3
5	PROJ1	22MCAL35	Project Work Phase 1	–	02	–	–	100	–	100	2
6	PCCL	22MCAL36	Data Analytics Lab with Mini-project	–	02	–	03	50	50	100	2
7	PCCL	22MCAL37	IoT Laboratory with Mini Project	–	02	–	03	50	50	100	2
8	SP	22MCAL38	Societal Project	–	02	–	–	100	–	100	2
9	INT	22MCA39	Internship	(06 weeks Internship Completed during the intervening vacation of II and III semesters or/ and III and IV semesters)			03	50	50	100	6
TOTAL				10	08	02	21	550	350	900	26



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2023-24

Lab with Mini-Project

CSE, ISE, AIML

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B.E. in Computer Science and Engineering												
Scheme of Teaching and Examinations 2021												
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)												
(Effective from the academic year 2021 - 22)												
V SEMESTER												
Sl. No	Course and Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination			Credits	
				Theory Lecture	Tutorial	Practical/ Drawing	Self Study	Duration in hours	CE Marks	SEE Marks		Total Marks
				L	T	P	S					
1	BSC 21CS51	Automata Theory and compiler Design	Any CS Board Department	3	0	0		03	50	50	100	3
2	IPCC 21CS52	Computer Networks		3	0	2		03	50	50	100	4
3	PCC 21CS53	Database Management Systems		3	0	0		03	50	50	100	3
4	PCC 21CS54	Artificial Intelligence and Machine Learning		3	0	0		03	50	50	100	3
5	PCC 21CSL55	Database Management Systems Laboratory with Mini Project		0	0	2		03	50	50	100	1
6	AEC 21XS56	Research Methodology & Intellectual Property Rights	TD: Any Department PSB: As identified by university	2	0	0		02	50	50	100	2
7	HSMC 21CV57	Environmental Studies	TD: Civil/ Environmental /Chemistry/ Biotech. PSB: Civil Engg	1	0	0		1	50	50	100	1
8	AEC 21CS58X/21 CS5BLX	Ability Enhancement Course-V	Concerned Board	If offered as Theory courses				01	50	50	100	1
				1	0	0						
				If offered as lab. courses				02				
				0	0	2		Total	400	400	800	18



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EEE

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V SEMESTER												
Sl No	Course and Course Code	Course Title	Teaching Department (T D) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination			Credits	
				Theory Lecture	Tutorial	Practical Drawing	Self Study	Duration in hours	CIE Marks	SEE Marks		Total Marks
				L	T	P	S					
1	PCC 21EE51	Transmission and Distribution	EE	2	2	0		03	50	50	100	3
2	IPCC 21EE52	Control Systems	EE	3	0	2		03	50	50	100	4
3	PCC 21EE53	Power System Analysis - 1	EE	2	2	0		03	50	50	100	3
4	PCC 21EE54	Power Electronics	EE	2	2	0		03	50	50	100	3
5	PCC 21EEL55	Power Electronics Laboratory	EE	0	0	2		03	50	50	100	1
6	AEC 21RM156	Research Methodology & Intellectual Property Rights	TD: Any Department PSB: As identified by University	1	2	0		02	50	50	100	2
7	HSMC 21CIV57	Environmental Studies	TD: Civil/Environmental /Chemistry/ Biotech. PSB: Civil Engg	0	2	0		1	50	50	100	1
8	AEC 21EES8X	Ability Enhancement Course-V	Concerned Board	If offered as theory courses				01	50	50	100	1
				0	2	0						
				If offered as lab. courses								
0	0	2										
Total									400	400	800	18
Ability Enhancement Course - V												
21EEL581	Scilab for Analysis of Power Systems		21EEP583	Energy Audit project								
21EEL582	Scilab for Power Electronics		21EEP584	Renewable Energy Project								
Note: BSC: Basic Science Course, PCC: Professional Core Course, IPCC: Integrated Professional Core Course, AEC –Ability Enhancement Course INT –Internship, HSMC: Humanity and Social Science & Management Courses. L –Lecture, T – Tutorial, P- Practical/ Drawing, S – Self Study Component, CIE: Continuous Internal Evaluation, SEE: Semester End Examination.												
Integrated Professional Core Course (IPCC): refers to Professional Theory Core Course Integrated with Practical of the same course. Credit for IPCC can be 04 and its Teaching – Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). Theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by CIE only and there shall be no SEE. For more details the regulation governing the Degree of Bachelor of Engineering /Technology (BE/B.Tech.) 2021-22 may be referred.												



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E-mail: enqprincipal@theoxford.edu Web: www.theoxfordenqg.org

MCA

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examinations – 2022											
Master of Computer Applications (MCA)											
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)											
III SEMESTER											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination			Credits	
				Theory	Practical/Seminar	Skill Development Activities (Hours are for interaction between faculty and students)	Duration in hours	CIE Marks	SEE Marks		Total Marks
				L	P	SDA					
1	PCC	22MCA31	Data Analytics Using Python	03	--	--	03	50	50	100	3
2	PCC	22MCA32	Internet of Things	03	--	--	03	50	50	100	3
3	PEC	22MCA33X	Professional Elective 3	02	--	02	03	50	50	100	3
4	DEC	22MCA34X	Professional Elective 4	02	--	02	03	50	50	100	3
5	PROJ1	22MCAL35	Project Work Phase 1	--	02	--	--	100	--	100	2
6	PCCL	22MCAL36	Data Analytics Lab with Mini-project	--	02	--	03	50	50	100	2
7	PCCL	22MCAL37	IoT Laboratory with Mini Project	--	02	--	03	50	50	100	2
8	SP	22MCAL38	Societal Project	--	02	--	--	100	--	100	2
9	INT	22MCA39	Internship	(06 weeks Internship Completed during the intervening vacation of II and III semesters or/ and III and IV semesters)			03	50	50	100	6
TOTAL				10	08	02	21	550	350	900	26



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1st Phase, JP Nagar, Bengaluru – 560 078

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Bommanahalli, Hosur Road, Bangalore – 560068. ☎: 080-61754601/602

E-mail: enqprincipal@theoxford.edu Web: www.theoxfordenqg.org

2023-24

UG – Social Connect Responsibility

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI													
B.E. in Computer Science and Engineering													
Scheme of Teaching and Examinations 2022													
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)													
(Effective from the academic year 2023-24)													
III SEMESTER													
Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				C R E d i t s
					Theory Lecture	Tutorial	Practical / Drawings	SDA	Duration in hours	OE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	PCC/BS C	BCS301	Mathematics for Computer Science	TD: Maths PSB: Maths/CS	3	2	0		03	50	50	100	4
2	IPCC	BCS302	Digital Design & Computer Organization	TD: CS PSB: CS	3	0	2		03	50	50	100	4
3	IPCC	BCS303	Operating Systems	TD: CS PSB: CS	3	0	2		03	50	50	100	4
4	PCC	BCS304	Data Structures and Applications	TD: CS PSB: CS	3	0	0		03	50	50	100	3
5	PCCL	BCSL305	Data Structures Lab	TD: CS PSB: CS	0	0	2		03	50	50	100	1
6	ESC	BCS306x	ESC/ETC/PLC	TD: CS PSB: CS	2	0	2		03	50	50	100	3
7	UHV	BSCK307	Social Connect and Responsibility	Any Department	0	0	2		01	100	---	100	1
8	AEC/SEC	BCS358x	Ability Enhancement Course/Skill Enhancement Course - III	TD: Concerned department PSB:CS	If the course is a Theory				01	50	50	100	1
					1	0	0						
					If a course is a laboratory				02				
					0	0	2						
9	MC	BNSK359	National Service Scheme (NSS)	NSS coordinator									
		BPEK359	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100	---	100	0
		BYDK359	Yoga	Yoga Teacher									
Total										550	350	900	21



CHILDREN'S EDUCATION SOCIETY (Regd.)
Administrative Office,
1st Phase, IIIrd Nagar, Bengaluru - 560 078
☎: 080-61754561 - 5821 Fax: 080-26518656

THE OXFORD COLLEGE OF ENGINEERING
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Accredited by NBA, New Delhi, NASAC 'A' Grade with score of 3.2 (5D) (Award Rating by QSI (India))
Bommanahalli, Hosur Road, Bengaluru - 560 068. ☎: 080-61754561/662
E-mail: gaap@theoxford.edu Web: www.theoxford.edu

PROJECT WORK/INTERNSHIP/ FIELD VISIT REPORT FOR THE YEAR 2023-24

INDEX

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Bommanahalli, Hosur Road
Bengaluru-560 068



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Administrative Office:

1st Phase, JP Nagar, Bengaluru – 560 078

☎: 080-61754501 – 502 Fax: 080-2654 8658

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Bommanahalli, Hosur Road, Bangalore – 560068. ☎: 080-61754601/602

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

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!

Mini Project

A mini-project is a short, practical problem which requires for its solution the application of the knowledge and skills developed in previously completed set experiments.

Social Connect Responsibility

Social Connect Responsibility focuses on interacting with others and the natural world in respectful and caring ways.



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1st Phase, JP Nagar, Bengaluru – 560 078

☎: 080-61754501 – 502 Fax: 080-2654 8658

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Bommanahalli, Hosur Road, Bengaluru –560 068. ☎: 080 -61754601/602

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

TOCE/EST 27/CDC/2023-24/01

Date: 31 Jul. 2023

CIRCULAR

Sub: Curriculum Planning and Delivery Committee Meeting

All Heads of Departments (HODs) are hereby informed of a meeting scheduled for the upcoming academic year 2023–2024 (ODD Semester) to discuss curriculum activities across all departments. The meeting will be held on **4th August 2023** at **11:00 am** in the **Board Room, The Oxford College of Engineering, Bengaluru.**

The agenda for discussion is as follows:

1. Academic Calendar
2. Master Timetable
3. Course Files/Pedagogical Methods
4. Value Added Courses and Content Beyond the Syllabus
5. Student-Centric Teaching Methods
6. Mapping of Course Outcomes (COs), Programme Outcomes (POs), and Programme Specific Outcomes (PSOs)
7. Feedback Analysis and Action Plan
8. Any other points with the permission of the Chair

Kindly make it convenient to attend the meeting.


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

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The Chairman, The Oxford Educational Institutions

All HODs

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Administrative Office:

1st Phase JP Nagar, Bengaluru – 560 078

☎: 080-61754501 – 502 Fax: 080-2654 8658

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

Bommanahalli, Hosur Road, Bangalore –560068.

☎: 080 -61754601/602, Fax: 080 – 25730551 E-mail: engprincipal@theoxford.edu Web: www.theoxford.edu

TOCE/EST 27/CDC/2023-24/02

PROCEEDINGS OF THE MEETING
Curriculum Planning and Delivery Committee

Date:04-08-2023

Time: 11:00AM

Members Present:

01	Dr. N Kannan - Principal		
02	Dr. Vijaya Kumari -Dean (Academics) & Prof of Dept. of ECE	03	Dr. Preeta Sharan – Dean (R&D) & Prof of Dept. of ECE
04	Dr. R Ch A Naidu - HOD - CSE	05	Dr. R Kanagavalli - HOD - ISE
06	Dr. Manju Devi - HOD - ECE	07	Dr.V S Bharath- HOD - EEE
08	Dr. Madhusudhan Reddy - HOD - ME	09	Dr. B K Manjunath - HOD - BT
10	Dr. Malleshaiah T S - HOD -CIVIL	11	Dr. Raju B R, HOD - Auto
12	Dr. Manjula C – HOD - MTE	13	Dr. Tharaka Rami Reddy - HOD - MBA
14	Dr. Puja Shashi - HOD - MCA	15	Dr. Mallikajuna K - Dean Examinations
16	Dr. P Gangavathi - HOD - S&H	17	Dr. Bheemeswara Reddy V, Head – Corporate Relations
18	Dr. Ravi H, Chief Librarian, Dept. of Central Library	19	Dr. Yasha Jyothi M Shirur – Prof. & Head, Dept. of ECE, BNMIT - Academic Expert - ECE
20	Mr. Shamin Dudu T S– Section Head & Tech Director, Bosch Global Software, Hongasandra, B'lore -Embedded Systems - Industry Expert - EEE	21	Mr. Rakesh L – Senior Consultant, Quisitive Solutions, Supply Chain & Manufacturing – Alumni - ME

Agenda

- Review of Previous minutes of meeting
- Department Vision and Mission, PSO of Department
- Department Short term and Long term goals
- Department SWOT
- Academic Calendar/Time Table
- **Student centric methods planned**
 - Internship
 - Mini Projects
 - Societal based live projects
 - Field Work
- **Academic gap analysis**
- **Academic performance analysis and review**
 - Review of SEE performance
 - Attainment of CO,PO, PSO
 - Pedagogical initiatives
 - Implementation of OBE Matrix
 - Action Plan for Slow Learners and Advanced Learners
 - Feedback analysis and Action taken plan
- **Content beyond syllabus activity planned**
 - Value added Courses
 - Additional lab experiments
 - Online courses (Swayam & MOOC courses)
 - Skill up gradation activities

The following points were discussed during CDC meeting:

1. Principal welcomed all the members present and the resolution planned in the last meeting has been approved for compliance.
2. **Department Vision and Mission, PSO of Department/Department Short term and Long term goals/Department SWOT:**
The committee instructed to review and discuss in the DAC regarding the Department Vision and Mission, PSO, Department Short term and Long term goals and SWOT analysis.
3. The academic performance analysis of last semester (2022-23EVEN) was briefed by principal.

As per the VTU guidance the 7thsemester of B.E. will commence from 14/08/2023.

4. **Academic Calendar:**

The principal briefed the following dates for the commencement of ODD semester as per the VTU Calendar along with College Academic Calendar

Semester	VTU Calendar	TOCE Calendar
BE - VII	Sept. 11th 2023	Sept. 11th 2023
BE - V	Oct. 25th2023	Nov. 25th 2024

BE - III	Oct. 25th 2023	Nov. 15th 2023
BE - I	Sept. 4th 2023	Sept. 4th 2023
MTech- Isem	Feb. 12th 2024	Feb. 12th 2024
MTech- IIIsem	Dec. 11th 2023	Dec. 11th 2023
MBA - I	Feb. 12th 2024	Feb. 12th 2024
MBA - III	Dec. 1st 2023	Dec. 1st 2023
MCA - I	Feb 12th 2024	Feb 12th 2024
MCA - III	Dec. 11th 2023	Dec. 11th 2023

The principal instructed the HODs to prepare the department calendar for the semester activities by incorporating all the important events and finalize the dates.

Time Table/Master Time Table: It is informed to all the HoDs to prepare subject proficiency matrix as per 2018, 2021,2022 schemes and prepare the department time table and master time table for the ODD semester and submit to the principal office. A copy of the mentor allocation list needs to be attached for each section.

5. Students Centric Methods

The curriculum delivery committee decided to integrate student-centric methods to enhance learning outcomes. Heads of Departments were instructed to ensure the implementation of these methods in teaching practices, including guest lectures, expert talks, technical seminars and webinars, hands-on sessions, interactive sessions, soft skill and technical training, industrial and field visits, internships, projects, mini-projects, Societal based live projects and innovative approaches. According to the VTU circular, students must be encouraged to pursue the B.E. Honors course with a minimum CGPA of 7.5.

6. Academic performance analysis and review

SEE Review Meeting

He also reviewed the results of CIE and Semester End Examination for each branch. It was also noted that the some 10% of results were improved (expected target in results were not satisfied and could have achieved good results for which) the committee members were advised all HODs and subject faculty to aim for better results improve the same during the upcoming academic year 2023-24 ODD.

It was also noted that students' performance and subject deliverance by the faculty must be improved. HODs were advised to prepare a remedial class time table for the slow learners and instruct the faculty to conduct the remedial classes for the further improvements. by adopting innovative pedagogical methods.

CIE Review Meeting:

HoDs were informed to direct the subject faculty to maintain the course file for their respective subjects and get it verified before the commencement of the semester.

The course file should contain a copy of university syllabus, students list, attendance register, teacher's diary along with the lesson plan, execution of the content delivery, pedagogical

initiatives, notes and reference books, previous CIE question papers and university question papers along with scheme of evaluation and question bank, assignments etc.,

Faculty should follow the pedagogical methods given by the university along with the syllabus. In addition, faculty were advised to follow their innovative pedagogical initiatives as demanded by the subject domain. The committee members suggested to conduct class committee meeting before the commencement of each Continuous Internal Evaluation (CIE) and to submit the report to IQAC.

The committee members advised HODs to instruct each faculty to adhere the VTU guidelines for conducting CIE and also advised HODs to have thorough check on the CIE 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 the form of Improvement Test.

And for the 2021 & 2022 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 2018 scheme for MCA, 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. And for the 2022 scheme, MTech, the rubrics for allotment of marks is 50% marks for Semester End Exam (SEE) and 50% marks for Continuous Internal Evaluation (CIE).

Faculty were advised to evaluate the blue books within the stipulated duration and after each CIE, the slow learners need to be identified and conduct remedial class.

Pedagogical Initiatives

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 better insight of the concepts for healthier understanding.

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 PSOs should be mapped to achieve the attainments.

Action Plan for Slow learners and Advanced Learners

The curriculum delivery committee directed Heads of Departments to ensure that subject faculty conduct remedial classes and mentoring sessions for students who require additional support. Additionally, they advised encouraging advanced learners to engage in conferences, add-on courses, and MOOCs to deepen their understanding of the subject matter, thereby enhancing their chances of achieving university rankings.

Feedback analysis and Action taken plan.

The committee instructed feedback committee to adhere to the format given by IQAC and to take feedback on ‘Curriculum’ for the academic year 2023-24 (ODD) from the following stakeholders after the 2nd IA.

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

An analysis report of the feedback should be submitted to IQAC. 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.

7. Content beyond syllabus activity planned

Value Added Courses, Content beyond syllabus: The curriculum delivery committee discussed with HoDs of all the department to conduct value added courses for the academic year 2023-24(ODD).

SL NO	Name of Add on /Certificate programs offered	Duration of course
1	Foundations of Quantum Computing: A 6-Days Value - Added Course	36
2	Cyber Security and Ethical Hacking	30
3	Hands on Training Data Analytics using Excel	30
4	Applications of Python Programming & Networking in Electrical Engineering	30
5	Innovation and Design Thinking Ideas in Structural Detailing	30
6	Mech Design Mastery: Crafting Excellence in Product Innovation	36
7	R& D Innovation in Clinical Genomics	30
8	Python for Mechatronics Engineering	30
9	Data Analytics Using ML	90
10	Leveraging Python for Business Insights and Strategic Decision-Making	30
11	Java Full Stack	30


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

8. The Committee instructed all HoDs to inculcate Research culture among students and faculty / through invited lectures collaboration with MoU signed companies and brain storming sessions. Students/Faculty Innovation should be motivated through assigning live project addressing societal issues.
9. **DAC:** Principal instructed all department, Department Advisory Committee, to conduct the meeting with stakeholders, and identify the curriculum gap, review the stakeholder's remarks, and identify the thrust areas to bridge the gap.
10. **B.E Honors:** As per VTU circular and guidance it was discussed during HoDs meeting to give importance and awareness of B.E honors and motivate the students for the same. Principal directed to conduct the meeting for the same in their respective department.
11. Principal also suggested the importance of Cross Cutting Issues in syllabus by giving the awareness of Ethics, Gender, Environment, etc. This needs to be shared with faculty and students.

12. Resolutions

Following resolutions were made in the meeting:

1. To retain the institution vision and mission statements and to review the department vision and mission statements/SWOT/Long term and short term in the DAC
2. All faculty should strictly adhere to VTU/Institute/Department academic calendar and follow the approved activity plan
3. All faculty should maintain their course file duly verified and approved by respective HODs before the commencement of the classes
4. The faculty should implement the pedagogy initiatives as per the VTU guidelines
5. To conduct the bridge course/add on course/industrial visit/workshops/Internship/Field Visits as per the Department **Academic gap analysis**
6. Academic Performance Analysis should be conducted periodically
7. Students should be encouraged to take up online courses and skill up programs
8. Faculty and Students are encouraged to involve in research, innovation, publications and patents



PRINCIPAL
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bengaluru - 560 088

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All HODs.
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ACTION PLAN REPORT (2023-24-ODD)

SL.NO.	MOM – No.	ACTION PLANNED	STATUS
1.	5	Students Centric Methods	The student's centric methods were incorporated in all departments
2.	6	Academic performance analysis	CIE & SEE results were analysed reviewed
3.	6	Course File / Pedagogical Methods	As directed it was implemented by all departments
4.	6	Implementation of OBE Matrix	OBE Matrix was followed by all departments
5.	6	Action Plan for Slow learners and Advanced Learners	Remedial classes were conducted for slow learners & the advanced learners to participate in various programmes
6.	6	Feedback analysis	Feedback was taken by all departments during the semester
7.	7	Content beyond syllabus	As per the plan it was implemented
8.	9	DAC	DAC meeting was conducted before the beginning of the semester in all departments


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



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Administrative Office:

1st Phase, JP Nagar, Bengaluru – 560 078

☎: 080-61754501 – 502 Fax: 080-2654 8658

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

TOCE/EST 27/CDC/2023-24/03

Date: 20.02.2024

CIRCULAR

Sub: Curriculum Planning and Delivery Committee Meeting

All Heads of Departments (HODs) are hereby informed of a meeting scheduled for the upcoming academic year 2023–2024 (EVEN Semester) to discuss curriculum activities across all departments. The meeting will be held on **26th February 2024** at **11:00 am** in the **Board Room, The Oxford College of Engineering, Bengaluru.**

The agenda for discussion is as follows:

1. Academic Calendar
2. Timetable / Master Timetable
3. Course Files/Pedagogical Methods
4. Value Added Courses and Content Beyond the Syllabus
5. Student-Centric Teaching Methods
6. Mapping of Course Outcomes (COs), Programme Outcomes (POs), and Programme Specific Outcomes (PSOs)
7. Feedback Analysis and Action Plan
8. Any other points with the permission of the Chair

Kindly make it convenient to attend the meeting.


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

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Administrative Office:

1st Phase JP Nagar, Bengaluru – 560 078

☎: 080-61754501 – 502 Fax: 080-2654 8658

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

Bommanahalli, Hosur Road, Bangalore –560068.

☎: 080 -61754601/602, Fax: 080 – 25730551 E-mail: engprincipal@theoxford.edu Web: www.theoxford.edu

TOCE/EST 27/CDC/2023-24/04

PROCEEDINGS OF THE MEETING
Curriculum Planning and Delivery Committee

Date:26-02-2024

Time: 11:00AM

Members Present:

01	Dr. N Kannan - Principal		
02	Dr. Vijaya Kumari - Dean (Academics) & Prof of Dept. of ECE	03	Dr. Preeta Sharan – Dean (R&D) & Prof of Dept. of ECE
04	Dr. E Saravana Kumar - HOD - CSE	05	Dr. R Kanagavalli - HOD - ISE
06	Dr. Manju Devi - HOD - ECE	07	Dr. Devi Vigneswari - HOD - EEE
08	Dr. Madhusudhan Reddy - HOD - ME	09	Dr. B K Manjunath - HOD - BT
10	Dr. Malleshaiah T S - HOD - CIVIL	11	Dr. Raju B R, HOD - Auto
12	Dr. Madhura S – HOD - MTE	13	Dr. Tharaka Rami Reddy - HOD - MBA
14	Dr. Dharamvir - HOD - MCA	15	Dr. Mallikajuna K - Dean Examinations
16	Dr. P Gangavathi - HOD - S&H	17	Dr. Bheemeswara Reddy V, Head – Corporate Relations
18	Dr. Ravi H, Chief Librarian, Dept. of Central Library	19	Dr. Rajeswari – Professor, Dayananda Sagar College of Engineering - Academic Expert - ISE
20	Mr. Shyamasundar G C, Project Manager, EVIDEN, ATOS Business, B'lore- Industry Expert - CSE	21	Mr. Rakesh R, Assistant Facility Manager, Ejadah, Dubai - Alumni - MT

Agenda

- Review of Previous minutes of meeting
- Department Vision and Mission, PSO of Department
- Department Short term and Long term goals
- Department SWOT
- Academic Calendar/Time Table
- Student centric methods planned
 - Internship
 - Mini Projects

- Societal based live projects
- Field Work
- **Academic gap analysis**
- **Academic performance analysis and review**
 - Review of SEE performance
 - Attainment of CO, PO, PSO
 - Pedagogical initiatives
 - Implementation of OBE Matrix
 - Action Plan for Slow Learners and Advanced Learners
 - Feedback analysis and Action taken plan
- **Content beyond syllabus activity planned**
 - Value added Courses
 - Additional lab experiments
 - Online courses (Swayam & MOOC courses)
 - Skill upgradation activities

The following points were discussed during CDC meeting:

1. Principal welcomed all the members present and the resolution planned in the last meeting has been approved for compliance.
2. The performance analysis of last semester (2023-24 ODD) was briefed by principal.

As per the VTU guidance the 2nd semester of B.E. was commenced on 6/3/2024, and for 1st semester of PG - MBA, MCA, MTech commenced on 12-02-2024.

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 better results for which the committee members were advised all HODs and subject faculty to improve the same during the coming academic year 2023-24 Even.

It was also noted that students' performance and subject deliverance by the faculty must be improved. HODs were advised to prepare a time table for remedial class for the slow learners and instruct the faculty to conduct the classes by adopting innovative pedagogical methods.

3. Academic Calendar:

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

Semester	VTU	TOCE
VIII	Feb 12th 2024	Feb 12th 2024
V1	April 29th 2024	April 29th 2024
IV	April 22nd 2024	April 22nd 2024
II	March 6th 2024	March 6th 2024
M.Tech- II sem	Jul. 15th 2024	Jul. 15th 2024
M.Tech- IV sem	Apr. 22nd 2024	Apr. 22nd 2024
MBA - II	Jul. 15th 2024	Jul. 15th 2024
MBA - IV	Jun. 10th 2024	Jun. 10th 2024

MCA -II	Feb 12th 2024	Feb 12th 2024
MCA -IV	Apr. 22nd 2024	Apr. 22nd 2024

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

Time Table/Master Time Table: It is informed to all the HoDs to prepare subject proficiency matrix as per 2018, 2021, 2022 schemes and prepare the department time table and master time table for EVEN semester.

The committee informed to HODs of MBA, MCA and all MTech to prepare a subject proficiency matrix and allocate the subject for the ODD Semester 2023-24 with the 2022 scheme for the first year, and second year for 2021 scheme of the Master of Technology (M.Tech) PG Programme. Department time table along with the Master time table should be submitted to the principal office. A copy of the mentor allocation needs to be attached for each section.

4. Course File / Pedagogical Methods:

HoDs were informed to direct the subject faculty to maintain the course file for their respective subjects and get it verified before the commencement of the semester.

The course file should contain a copy of university syllabus, students list, attendance register, teacher's diary along with lesson plans with pedagogical initiatives, notes and reference books, previous CIE question papers and university question papers along with scheme of evaluation and question bank, assignments etc.,

Faculty should follow the pedagogical methods given by the university along with the syllabus. In addition, faculty were advised to follow their innovative pedagogical initiatives as demanded by the subject domain. The committee members instructed HODs to conduct class committee meeting before the commencement of each Continuous Internal Assessments and to submit the report to IQAC.

The committee members advised HODs to instruct each faculty to adhere the VTU guidelines for conducting Internal Assessment Tests and also advised HODs to have thorough 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 the form of Improvement test.

And for the 2021 & 2022 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 and for the 2022 scheme, MTech, the rubrics for allotment of marks is 50% marks for Semester End Exam (SEE) and 50% marks for Continuous Internal Evaluation (CIE).

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 course.

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 better insight of the concepts for improved understanding.

5. B.E Honors: As per VTU circular and guidance it was discussed during HoDs meeting to give importance and awareness of B.E honors and motivate the students for the same. Principal instructed to conduct the meeting for the same in their respective department.
6. Principal also suggested the importance of Cross Cutting Issues in syllabus by giving the awareness of Ethics, Gender, Environment, etc. This needs to be shared with faculty and students.
7. **Value Added Courses, Content beyond syllabus:** The curriculum delivery committee discussed with HoDs of all the department to conduct value added courses for the academic year 2023-24 (EVEN).

Sl. No	Name of Add on /Certificate programs offered	Duration of course
1	Edge Computing: A 6-Days Value - Added Course	36
2	Internet of things	30
3	3D PRINTING	30
4	Structured Query Language	30
5	Innovation and Design Thinking Ideas in Construction by using Geo-polymer Concrete	30
6	Innovative Interfaces: Mastering Design Software in Product Development	36
7	Value added course on R programming and Bio python for Biologists	36
8	Advanced in SOLIDWORKS	30
9	AWS FUNDAMENTAL COMPUTING RESEARCH PERSPECTIVE	32
10	Hands on Workshop using Power BI & MS Excel Advanced	30
11	Advance Application Development using Spring and Spring Boot	30

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

8. Feedback analysis and Action taken plan.

The committee instructed feedback committee to adhere to the format given by IQAC and to take feedback on 'Curriculum' for the academic year 2023-24 (Even) from the following stakeholders after the 2nd IA.

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

An analysis report of the feedback should be submitted to IQAC. 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 PSOs should be mapped to achieve the attainments.

10. Students Centric Methods

The curriculum delivery committee decided to integrate student-centered methods to enhance learning outcomes. Heads of Departments were instructed to ensure the implementation of these methods in teaching practices, including guest lectures, expert talks, technical seminars and webinars, hands-on sessions, interactive sessions, soft skill and technical training, **industrial and field visits, internships, projects, mini-projects, and innovative approaches.** According to the VTU circular, students must be encouraged to pursue the B.E. Honors course with a minimum CGPA of 7.5.

11. Action Plan for Slow learners and Advanced Learners

The curriculum delivery committee directed Heads of Departments to ensure that subject faculty conduct remedial classes and mentoring sessions for students who require additional support. Additionally, they advised encouraging advanced learners to engage in conferences, add-on courses, and MOOCs to deepen their understanding of the subject matter, thereby enhancing their chances of achieving university rankings.

12. Department Vision and Mission, PSO of Department/Department Short term and Long term goals/Department SWOT:

The committee instructed to review and discuss in the DAC regarding the Department Vision and Mission, PSO, Department Short term and Long term goals and SWOT analysis.

13. The Committee instructed all HoDs to inculcate Research culture among students and faculty / through invited lectures collaboration with MoU signed companies and brain storming sessions. Students/Faculty Innovation should be motivated through assigning live project addressing societal issues

14. DAC: Principal instructed all department, Department Advisory Committee, to conduct the meeting with stakeholders, and identify the curriculum gap, review the stakeholder's remarks, and identify the thrust areas to bridge the gap.

15. Resolutions

Following resolutions were made in the meeting:

1. To retain the institution vision and mission statements and to review the department vision and mission statements/SWOT/Long term and Short term in the DAC
2. All faculty should strictly adhere to VTU/Institute/Department academic calendar and approved activity plan
3. All faculty should maintain their course file duly verified and approved by respective HODs before the commencement of the classes
4. The faculty should implement the pedagogy initiatives as per the VTU guidelines
5. To conduct the bridge course/add on course/industrial visit/workshops/Internship/Field Visits as per Department Academic gap analysis
6. Academic Performance Analysis should be conducted periodically
7. Students should be encouraged to take up online courses and skill up programs
8. Faculty and Students are encouraged to involve in research, innovation, publications and patents.


PRINCIPAL
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bengaluru - 560 088

PRINCIPAL

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

ACTION PLAN REPORT (2023-24-EVEN)

SL.NO.	MOM – No.	ACTION PLANNED	STATUS
1.	4	Course File / Pedagogical Methods:	As directed it was implemented by all departments
2.	7	Value Added Courses, Content beyond syllabus	As per the plan it was implemented
3.	8	Feedback analysis	Feedback was taken by all departments during the semester
4.	9	Implementation of OBE Matrix	OBE Matrix was followed by all departments
5.	10	Students Centric Methods	The student's centric methods were incorporated in all departments
6.	11	Action Plan for Slow learners and Advanced Learners	Remedial classes were conducted for slow learners & the advanced learners to participate in various programmes.
7.	14	DAC	DAC meeting was conducted before the beginning of the semester in all departments


PRINCIPAL
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bengaluru - 560 088



CHILDREN'S EDUCATION SOCIETY (Regd.)

Administrative Office

1st Phase, JP Nagar, Bengaluru - 560 078

☎ 080 61754501 - 502 Fax: 080 2654 8058

THE OXFORD COLLEGE OF ENGINEERING

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

Approved by AICTE, New Delhi, Recognized by UGC Under Section 2(F)

Accredited by NBA, New Delhi, BVAAC 'A' Grade with score of 3.2 (All India) Rating by (251) Group

Bommanahalli, Hosur Road, Bengaluru - 560068. ☎ 080 61754501/002

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

PROJECT WORK/INTERNSHIP/ FIELD VISIT REPORT FOR THE YEAR

2023-24

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



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Bommanahalli, Hosur Road, Bangalore – 560068. ☎: 080-61754601/602

E-mail: enqprincipal@theoxford.edu Web: www.theoxfordenq.org

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!

Mini Project

A mini-project is a short, practical problem which requires for its solution the application of the knowledge and skills developed in previously completed set experiments.

Social Connect Responsibility

Social Connect Responsibility focuses on interacting with others and the natural world in respectful and caring ways.

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
BANGALURU - 560 068

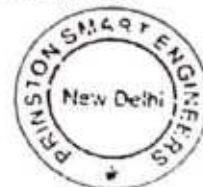
SIGNATORIES

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

PRINCIPAL

The Oxford College of Engineering
Bommanahalli, Hosur Road
Bengaluru-560 088.

HEAD OF TRAINING
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Prinston Smart Engineers
Engineering, Maintenance & Training Services



Internship Certificate

This Certificate is proudly presented to

CHETHAN C

For successful completion of internship in "FULL STACK WEB DEVELOPMENT(MERN)"
with Grade "A" from 11/08/2023 - 11/09/2023.

Usn:10X21CS403

College: THE OXFORD COLLEGE OF ENGINEERING

Mode of Internship: Offline

Certificate
of
Excellence



UDYAM - DL-08-0031663



Authorized Signatory

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Internship Certificate

This Certificate is proudly presented to

NISHA R

For successful completion of internship in "FULL STACK WEB DEVELOPMENT(MERN)"
with Grade "A" from 11/08/2023 - 11/09/2023.

Usn:10X20CS090

College: THE OXFORD COLLEGE OF ENGINEERING

Mode of Internship: Offline



Certificate
of
Excellence



UDYAM – DL-08-0031663



Authorized Signatory



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KARUNADU TECHNOLOGIES PRIVATE LIMITED
#17, A.T.K. Complex, 2nd & 4th Floor, Acharya College Main Road, Beside Karur Vysys Bank,
Guttesbasveshwara Nagar, Chikkabanavara, Bengaluru - 560090

**MEMORANDUM OF
UNDERSTANDING (MoU)**

BETWEEN

**The Oxford College of Engineering
Dept. of Information Science and Engineering**
10th Milestone, Hosur Rd, Bommanahalli,
Bengaluru, Karnataka 560068

&

Karunadu Technologies Private Limited
#17, A.T.K. complex, 2nd and 4th Floor, Acharya College
Main Road, Beside Karur Vysya Bank,
Guttesbasveshwaranagar Chikkabanavara, Bengaluru
Karnataka 560090
Tel: 09902913646, 09964823646

FOR

**SKILL DEVELOPMENT, INTERNSHIPS, WORKSHOPS
AND RELATED SERVICES**





ಕರುನಾಡು ಟೆಕ್ನಾಲಜೀಸ್ ಪ್ರೈವೇಟ್ ಲಿಮಿಟೆಡ್
KARUNADU TECHNOLOGIES PRIVATE LIMITED
#17, A.T.K. Complex, 2nd & 4th Floor, Acharya College Main Road, Beside Karur Vysys Bank,
Guttebasveshwara Nagar, Chikkabanavara, Bengaluru - 560090

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter called as the 'MOU') is entered into on this the 02nd Day of July -Two Thousand and Twenty Four (02/07/2024), by and between

The Oxford College of Engineering
Dept. of Information Science and Engineering
10th Milestone, Hosur Rd. Bommanahalli,
Bengaluru, Karnataka 560068

The First Party represented herein by its Name of Competent Authority / Representative (hereinafter referred as 'First Party', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators, and assigns).

AND

Karunadu Technologies Private Limited

#17, ATK complex, 2nd and 4th Floor, Acharya College Main
Road, Beside Karur Vysya Bank, Guttebasaveshwaranagar
Chikkabanvara, Bengaluru Karnataka 560090
Tel: 09902913646, 09964823646

The Second Party, and represented herein by its Zonal / Divisional Head, Name of Competent Authority / Representative, (hereinafter referred to as "Second Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' individually as 'Party') as





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KARUNADU TECHNOLOGIES PRIVATE LIMITED
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Guttesbaveshwara Nagar, Chikkabanavara, Bengaluru - 560090

First Party is a Higher Educational Institution named:

The Oxford College of Engineering

- a) A) First Party and 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.
- b) B) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Educational trainings like Workshops, Internships and Technical Talks and other related activities.
- c) C) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interests.
- d) D) Karunadu Technologies Private Limited, the Second Party is engaged in Software and Embedded Services and Solutions, Skill Development, Educational trainings like Workshops, Internships and Technical Talks and other related activities.
- e) E) The Oxford College of Engineering The first party is Engineering College and this MOU is made for Dept. of Information Science and Engineering Branch (ISE), The Oxford College of Engineering.

**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES
SET FORTH IN THIS MOU, THE PARTIES HERE TO AGREE AS FOLLOW**





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CLAUSE 1 CO-OPERATION

Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the **Institution** and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.

The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter here of and shall supersede any prior understanding between the Parties on the subject matter hereof.

CLAUSE 2 SCOPE OF THE MoU

The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.

Curriculum Design: Second Party will give valuable inputs to the First Party in teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.





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Industrial Training and Visits: Industry and Institution interaction will give an insight in to 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. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its **Internships / Workshops / Industrial Talks** for the hands-on training of the learners enrolled with the First Party.

Skill Development Program: Second Party to train the students of First Party on the emerging technologies in order to bridge the skill gap and make them industry ready.

Faculty Development Program: Second Party to train the Faculties of First Party for imparting training as per the industrial requirement.

Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein

If there is any financial commitment on the part of the **The Oxford College of Engineering** the First Party to take up any programme mentioned in the MoU, it will be dealt separately and will be put into execution after being agreed from Both Parties.

CLAUSE 3
INTELLECTUAL PROPERTY

3.1: Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.





SCOPE OF M


- This MOU is for collaboration opportunities
- a) Mutual to activities
 - b) Support to lead to ov
 - c) Promote a best practi
 - d) Create Pl students th study trips

CLAUSE 4
VALIDITY

4.1: This Agreement will be valid for a period of **Three years**. However, Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations

CLAUSE 5
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. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.


Dr. R. KANAGAVATHI
PROFESSOR & MOD-ISE
The Oxford College Of Engineering
First Party
Hosur Main
Bengaluru


Second Party
Karunadu Technologies Private Limited.
Bengaluru

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by mutual talks/understandings and is not entitled for any legal actions from either parties. However one can terminate this MOU as mentioned in Clause 4





ಕರುನಾಡು ಟೆಕ್ನಾಲಜೀಸ್ ಪ್ರೈವೇಟ್ ಲಿಮಿಟೆಡ್
KARUNADU TECHNOLOGIES PRIVATE LIMITED
#17, A.T.K. Complex, 2nd & 4th Floor, Acharya College Main Road, Beside Karur Vysya Bank,
Guttesaveshwara Nagar, Chikkabanavara, Bengaluru - 560090

AGREED:

The Oxford College of Engineering,
Bengaluru

Karunadu Technologies Private Limited
Bengaluru

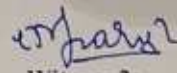

Dr. R. KANAGAVALLI
PROFESSOR & HOD-MSE
Authorized Signatory
The Oxford College Of Engineering
Bommanahalli, Hosur
Bengaluru
PROF. & HOD


Authorized Signatory
MAHESH DEGINAL
MD/CEO

The Oxford College of Engineering	Karunadu Technologies Private Limited
Address: 10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068	Address: #17,ATK complex, 2 nd and 4 th Floor, Acharya College Main Road, Beside Karur Vysya Bank, Guttesaveshwaranagar Chikkabanavara, Bengaluru Karnataka 560090
Tel : +91 99003 00877	Tel : +91-9902913646/09964823646
Email : enghodise@theoxford.edu	Email : karunadutechnologies@gmail.com ,
Web: http://www.theoxfordengg.org/	Web : https://www.karunadutechnologies.com/

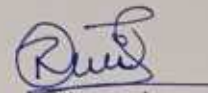
Witness 1:




Witness 2:

Witness 3:




Witness 4:



Children's Education Society
THE OXFORD COLLEGE OF ENGINEERING

Recognized by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi &
 Approved by A.I.C.T.E. New Delhi, accredited by NAAC-A & NBA New Delhi and Recognized by
 UGC, Hosur Road, Bommanahalli, Bangalore -560068



KT Karunadu
Technologies

Department of Information Science and Engineering
 In Association
KaruNadu Technologies
 Organizing a



Two Days Workshop on "Internet of Things"

DATE: 5.03.2024 to 6.03.2024

VENUE: ISE Seminar Hall



Mr. Mahesh Deginal B. E, M. Tech
 Managing Director & CEO



Mr. Harish.N - B. E, M. Tech
 CTO and Co-Founder

Chief Patron

Dr.S.N.V.L NarasimhaRaju
 President

The Oxford Educational Institutions

Patron

Dr. N. Kannan
 Principal & President IIC
 TOCE

Convener

Dr. R Kanagavalli
 HOD, ISE
 TOCE

Faculty Coordinators

Mr.Karthick
Ms.Bhairavi
 Assistant professor/ISE
 TOCE

Memorandum of Understanding

Between

Take It Smart (OPC) PVT LTD

and

The Department of Information Science and Engineering

The Oxford College of Engineering,

10th Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068.

This Memorandum of Understanding (MOU) between the Take It Smart (OPC) 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.**



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 Take It Smart (OPC) 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 Take It Smart (OPC) PVT LTD

Industries served are:

- Banking & Financial(MIS Projects)
- Manufacturing(ERP)
- Small and Medium Enterprise(Customized Softwares)
- Info Technology
- Advertising

TAKE IT SMART (OPC) PVT.LTD mainly works in three Verticals
Digital Advertisements , Web design & software **Internship, Projects & Training Web**
Based Services:

We have six types of Website Service

- Static Website
- Dynamic Website
- CMS Website
- E-Commerce



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

M/s. Take It Smart (OPC) PVT LTD

14,SGN Arcade, 1st Floor, 2nd stage, 1st Main Rd, RPC Layout, Hoshalli Extension, Stage 1, Vijayanagar, Bengaluru, Karnataka 560040 Ph no.8050104212

Department of Information Science and Engineering

The Oxford College of Engineering,

10th Milestone, Bommanahalli, Hosur Road, Bengaluru-560 068

1. 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



Name: Mr. Mallikarjun Kumbar

Date: 22.08.22

Organization: M/s. Take It Smart (OPC) PVT LTD

Designation: Director

[Handwritten signature]

Date: 22.08.22

Name: Dr. R. Kanagavalli
Organization: The Oxford College of Engineering

Designation: Professor & Head
The Oxford College of Engineering
Bommanahalli, Hoosur Main Road,
Bangalore 560 066.



TAKE IT SMART PVT LTD

CERTIFICATE OF APPRECIATION



Proudly present to :

Ms.Noorain Fathima

This certificate is given for Completing the **Internship** program in Full Stack Development using Django duration from November 25th to December 23rd 2023.

Mallikarjun kumbar

CEO & Director



TAKE IT SMART PVT LTD

CERTIFICATE OF APPRECIATION



Proudly present to :

Mr. Stefen Joseph

This certificate is given for Completing the **Internship** program in Full Stack Development using Django duration from November 25th to December 23rd 2023.

Mallikarjun kumbar

CEO & Director

CERTIFICATE OF INTERNSHIP



This internship program certificate is proudly
awarded to

Prashanth M

For Successful completion of **internship** in "**Python programming**" With grade A from "October 25th 2023 to November 25th 2023" from **The Oxford College of Engineering** with **ADJ Infotech Service Pvt. Ltd.**

Avery Davis
CEO

Ashok singhal
Program Manager

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,
10th 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, interuships.



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 prorate 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.



Memorandum of Understanding

EFFECTIVE DATE: This MOU is executed on 15-07-2023

Between

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

And

PARTY 2: DigiToad Technologies Pvt. Ltd., #617, AB Square, 1st Floor, OMBR Layout, Banaswadi, Bangalore-560043.

DETAILS OF MOU:

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

2. **SCOPE OF WORK:**

- To promote interest in 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 and to work out new ideas for future cooperative agreements.

4. **Terms and Conditions:**

- ❖ DigiToad Technologies will arrange / provide:
 - Lab facility such as testing, Fabrication and characterization for experimentation.
 - Additional man power, if required (but they will be in the roles of company).

Oxford College of Engineering will arrange / provide:

- ❖ The Services of faculty who 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 Visit/ meeting/conference and attending workshop/ in this R&D **Project.**
- ❖ This MOU shall be valid for a period of two years 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 further duration with same terms and 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 the parties and thereafter confirmed in writing.
- ❖ Both the 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 by reason 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 on 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 outsider(s), whatsoever.
- ❖ By no means, 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 faculties and students in Automation and to develop research interests among the same in terms of Students **Internship.**

Party 1: *Handwritten Signature*
Applicant, Academic
Professor & HOD of E&C Engineering
The Oxford College of Engineering
Bommanahalli, Bangalore-560 068

Handwritten Signature
Signature of Head of Institute
PRINCIPAL
The Oxford College of Engineering
Bommanahalli, Hosur Road
Bengaluru-560 068

Party 2: **Collaborator, Industry**






THE OXFORD
COLLEGE OF ENGINEERING
BOMMANAHALLI, BANGALURU




Children's Education Society ®
THE OXFORD COLLEGE OF ENGINEERING
Hosur Road, Bommanahalli, Bengaluru-560 068
Website: www.theoxford.edu

(Approved by AICTE, New Delhi, Accredited by NBA, NAAC-A Grade, New Delhi & Affiliated to VTU, Belgaum)


REPORT on Seminar on "Machine Learning Applications for Embedded Systems"



Children's Education Society ®
The Oxford College of Engineering
Hosur Road, Bommanahalli, Bengaluru - 560068, 089-3021940/1/02, Fax-080-28730551, 30219623
(Approved by AICTE, Accredited by NAAC 'A' Grade & NBA, New Delhi & Affiliated to VTU, Belgaum)



Department of Electronics And Communication Engineering
In
Association with IIC
Organizing
1 Day Hands on Seminar on Machine Learning Applications For Embedded System
Date & Time



Resource person

Mrs. Mrinalini Barik
Application Engineer,
DIGITOAD TECHNOLOGIES

Date: 26.02.2024 (Monday)
Time: 09:00am
Venue: ECE Seminar hall
Room no:401

Chief Patron
Dr. S.N.V.L. Narasimha Raju
CHAIRMAN
The Oxford Educational Institutions,
Bengaluru

Convenor
Dr. Manju Devi,
HOD ECE,
The Oxford College of
Engineering

Faculty Coordinator
Mr. Jayaraj.N
Assistant Professor,
Dr. B. Srilatha
Associate Professor
Department of ECE

Principal
Dr. N. Kannan
PRINCIPAL
The Oxford College
of Engineering



The Oxford College of Engineering
Department of Electronics And Communication Engineering
Organizing
1 Day Hands on Seminar on Machine Learning Applications For Embedded System

SCHEDULE -26.02.24

TIME	TOPIC	Hands on Labs
09:00am-10:30 am	Introduction in Embedded AI Systems Design: sensors technology, fundamentals of AI & Machine Learning, IoT applications, industry case studies	Lab1: Installation of Embedded AI Development toolchain
11:00 am-12:45 pm	Getting started with ARM Cortex M4 architecture: STM32 Nucleo, clock system, ADC	Lab2: Using STM32 GPIO- on board LED & Button
12:45 am -1:45 pm	Lunch Break	Lunch Break
1:45 pm - 2:45 pm	Design of Sensor Data Logger: implementation of sensor driver library for datalogging applications, serial communication protocol	Lab3: Design of a coherent audio sensor signal sampling methodology to implement a datalogger to send data from STM32 to NanoEdge AI Studio
3:00 pm - 4:00 pm	STM32 NanoEdge AI Studio: Project parameter selection, sensor signals for library selection, benchmark & optimization, emulator-based training & inference on sensor dataset, library compilation	Project Demo and some applications



QUAD POWER SYSTEMS

Mfrs. of: Power Products SMPS, Battery Chargers, LED Drivers, PCB Design,
R & D Projects, We also do Embedded Design & IOT Projects

GSTIN: 29AAAFQ4847P1ZI

Memorandum of Understanding

EFFECTIVE DATE: This MOU is executed on 20-05-2022 between

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

And

PARTY 2: Quad Power Systems, #67,5th cross, J.C industrial, Govardhana Garden, Off Kanakapura Main Road, Bangalore-560062.

DETAILS OF MOU:

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

2. **SCOPE OF WORK:**

- To promote interest in research activities of the institution.
- Carry out joint research and development in order to deepen the analysis and understanding of science and technology in the manufacturing sector.
- Perform workshops as and when required. Commercials 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 and to work out new ideas for future cooperative agreements.

4. **Terms and Conditions:**

❖ Quad Power Systems will arrange / provide:

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

Oxford College of Engineering will arrange / provide:

❖ The Services of faculty who is an expert person in FBG Sensor for Biomedical Applications



67, 5th Cross, J.C. Industrial Area, Govardhan Garden, off Kanakapura Road, Bangalore - 560 062
Mobile: 8277308898 98456 02894 | Email : quadoowersvs@gmail.com | www.qpowersvs.com

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 Visit/ meeting/conference and attending workshop/ in this R&D **Project.**
- ❖ This MOU shall be valid for a period of two years 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 further duration with same terms and conditions or mutually agreeable modifications.
- ❖ The MoU will be reviewed by the partnership committee members from time to time and maybe amended with the consent of both the parties and thereafter confirmed in writing.
- ❖ Both the 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 by reason 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 on mutual agreement.
- ❖ Any other arrangements or activities or commitments shall be made on mutually agreed terms.
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- ❖ By no means, 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 faculties and students in Automation and to develop research interests among the same in terms of Students **Internship.**

Party 1: **Applicant, Academia** 
Professor & HOD of E&C Engineering
The Oxford College of Engineering
Bommananalli, Bangalore-560 068

Party 2: **Collaborator, Industry**


Signature of Head of Institute

PRINCIPAL

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





CERTIFICATE

OF INTERNSHIP
PRESENTED TO

HITESH S

For completing INTERSHIP from 25-10-23 to 30-11-23 on
DESIGN AND FABRICATION OF PCB
Organized by QUAD POWER SYSTEMS



CEO

MEMORANDUM OF UNDERSTANDING

GenEd Technologies

GenEd focuses on Education for Engineering students. We focus on teaching various technical concepts along with courses to the students of Electrical and Electronics Engineering (EEE) and Electronics and Communication Engineering (ECE). GenEd is located at #26 First Floor, 3rd cross, Mangammanapalya Main Road, Bommanhalli, Bengaluru, Karnataka 560 068

The Oxford College of Engineering

The Oxford College of Engineering (TOCE) The Oxford College of Engineering is one of the most prestigious institutions in Bengaluru that provides quality teaching and training in professional courses in various streams of Engineering, post graduate programs in Technology (M Tech), Computer Application (MCA) and in Business Administration (MBA) and Research (Ph.D). TOCE is located at 10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068.

The scope of the MoU, roles and responsibilities of the parties of the MoU are given below:

MoU WITNESSETH AS FOLLOWS:

1. Activities

This MoU outlines a strategic initiative between DB and TOCE, to establish industry academia interactions through which the below activities are carried

- I. Involve & promote the **projects** & research on latest technologies.
- II. Organise sector specific programs for students & faculty.
- III. Offer joint certification courses for learners from Industry & academia.
- IV. Support students to get internship opportunities.
- V. Provide career guidance & support for employment.
- VI. Create & scope curriculum to industry activities.
- VII. Support students to participate in **project** based learning & competitions.
- VIII. Tech various technical training courses in form of workshop or courses to the students.

This is a strategic initiative and requires the total commitment from GenEd and TOCE. And long term engagement to expect quantifiable outcomes.

2. Scope and Responsibilities

- I. MoU will help and engage students from department of Electrical & Electronics Engineering.
- II. GenEd will provide industry based projects, which can impact students to gain career and also to develop the core technical competency to face challenges at career.
- III. TOCE will co-ordinate for the activities under the calendar of events.

3. Benefits to TOCE& Departments

- I. Support students to involve in projects with industry guidance.
- II. Companies for placement activities.
- III. Bridge industry and academics gap.
- IV. Access to interact with expertise trainers from industry.
- V. In-house/external internship will fulfil the career encouraging skills.
- VI. Opportunity for students to avail certification courses or training from GenEd.

4. Benefits to GenEd

- I. Creation of talented resource repository to outsource.
- II. Grow together to become accreditation authority for skill training .

5. Relationship between the parties

- I. Neither TOCE nor GenEd is or will be an agent or legal representative or partner of the other. Neither of them is or shall be an employee or franchisee of the other, nor does this MoU create a joint venture or any similar relationship between them.

Summary

GenEd & TOCE recognize the significance of this MoU to involve students in industry interactions to support for employment through the activities. Both the parties will dedicate their effort to impact the career for every aspiring student.

This MoU express the broad understanding between the parties regarding their responsibilities and scope of work.

GenEd Technologies	The Oxford College of Engineering
<p>Name: MR K UDAY BHARGAV</p> <p>Title: Founder and CEO</p> <p><i>GenEd Technologies</i> 226-1st floor, 3rd Cross Mangamangaluru Main Road HSR Layout, Sector 6, Bangalore - 560 068.</p> <p>Signature with Seal</p>	<p>Name: Dr. N. KANNAN</p> <p>Title: Principal</p> <p><i>[Signature]</i> PRINCIPAL The Oxford College of Engineering Bommanahalli, Hosur Road Bengaluru-560 068.</p>
<p>Professor & Head of Dept The Oxford College of Engineering Bommanahalli, Hosur Road Bangalore-560 068.</p>	<p>Witness</p>
<p>1. <i>[Signature]</i></p>	<p>1. <i>[Signature]</i> (Dr. B. Devi Vigneshwari)</p>
<p>2. <i>[Signature]</i> (Sandeeep S)</p>	<p>2. T. Someswari (Dr. T. SOHESWARI)</p>



THE OXFORD COLLEGE OF ENGINEERING

10TH Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka 560068
(Approved by AICTE New Delhi, Accredited by NAAC A, New Delhi, Affiliated to VTU)



Department of Electrical & Electronics Engineering Organized a Two Days Workshop on “Innovation & Design Thinking Ideas using Raspberry PI”

The poster is a rectangular graphic with a white background and a dark border. At the top left is the Oxford College of Engineering logo. At the top right is the Institution's Innovation Council logo. The central text reads: 'The Oxford College of Engineering, Department of Electrical & Electronics Engineering, In Association with the Institutions Innovation Council, Organizing a Workshop on Innovation & Design Thinking Ideas using Raspberry PI'. Below this, a central box contains a portrait of Mr. K. Uday Bhargav, his name, and his title 'Director GenEd Technologies, Proud Alumnus of TOCE & A Entrepreneur'. To the right of the portrait, the date and time are listed: '28.05.2024 & 29.05.2024, 10:00 AM Onwards'. At the bottom, five roles are listed with their respective names and titles: Chief Patron (Dr. S.N.V.L. Narasimha Raju), Principal & President IIC (Dr. Kannan N), IIC Coordinator (Dr. Bindhu Madhavi), Convenor (Dr. B. Devi Vighneshwari), and Faculty Coordinators (Dr. Nisha C Rani and Prof. Resna S R).

Department of Electrical and Electronics Engineering, The Oxford College of Engineering, Bengaluru in association with Institution Innovation Council organized a two days workshop on “**Innovation & Design Thinking Ideas using Raspberry PI**” on 28/05/2024 & 29/05/2024 from 10:00AM onwards in offline mode.

Venue: 5th floor Room New Building N513, TOCE & EEE Lab 2

OBJECTIVES:

- Introduce participants to the design thinking process, emphasizing empathy, ideation, prototyping, and iteration. Encourage them to approach problem-solving with a user-centric mindset.
- Facilitate hands-on activities where participants can work on Raspberry Pi projects that encourage creativity and innovation. These projects should be designed to address real-world problems or challenges.
- Foster collaboration among participants by assigning group projects that require teamwork and cooperation. Encourage them to brainstorm ideas, share expertise, and leverage each other's strengths.

- Guide participants through the process of prototyping their ideas using Raspberry Pi and other components like sensors, actuators, and peripherals. Emphasize the importance of rapid prototyping and learning from failure.

By aligning the workshop objectives with these key areas, participants can gain valuable insights into innovation, design thinking, and Raspberry Pi technology while developing practical skills and fostering creativity. It also educate the participants about current market trends, emerging technologies and empowering them to make informed decisions about their career paths and entrepreneurial endeavours It was organized for the 4th Semester students.

Number of Students Participated: 57

Faculty: 05

Agenda of the workshop:

- Introduction to Raspberry Pi and Design Thinking
- Introduction to Raspberry Pi Hardware and Software Setup
- Working on Simulation & Hardware
- Hands-on Workshop: Building Basic Raspberry Pi Projects

Face book Link:

<https://www.facebook.com/photo/?fbid=474482768437105&set=a.177418398143545>

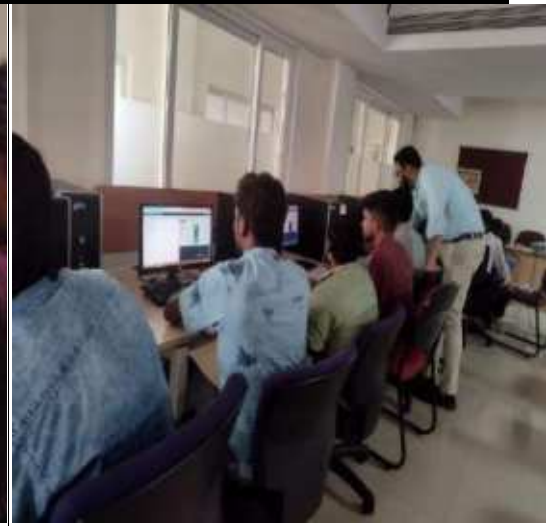
You Tube Link:

https://youtu.be/Bq0jLt_y1I0

Photos of the Event:

Day 1:





Day 2:





Outcome

The workshop on “**Innovation & Design Thinking Ideas using Raspberry PI**” organized by the EEE Department, TOCE, served as a platform to empower electrical engineers with the knowledge, skills, and confidence to explore diverse career opportunities, pursue entrepreneurial ventures, and make meaningful contributions to the field.

- Participants are able to apply design thinking ideas in Raspberry Pi based **projects**.
- Participants developed critical thinking skills necessary for analyzing complex problems, identifying challenges evaluating solutions and making informed decisions for their **projects** developed using Raspberry Pi.
- Participants developed practical design thinking experience in building and iterating prototypes using Raspberry Pi and other hardware components.
- Participants collaborate effectively in teams, sharing ideas, skills, and resources to create innovative Raspberry Pi **projects**.

Attendance:

S.No	USN	Name of the Student	Signature of the Student
1	10X22EE001	Ajay R	Ajay
2	10X22EE002	Apoorva B T	Apoorva B T
3	10X22EE003	Arun R Venkatapur	Arun
4	10X22EE004	Balabheem	Balabheem
5	10X22EE005	Bhavya G	Bhavya G
6	10X22EE006	Gagan Raj D	Gagan Raj D
7	10X22EE007	Gayathri S	Gayathri S
8	10X22EE008	Harshitha B	Harshitha B
9	10X22EE009	Hemanth K Gowda	Hemanth K Gowda
10	10X22EE010	Juman Duwarah	Juman
11	10X22EE011	Junaid Pasha K	Junaid
12	10X22EE012	Justin B David	Justin B David
13	10X22EE013	Kavya P	Kavya P
14	10X22EE014	Lishanth J R	Lishanth J R
15	10X22EE015	Manjushree	Manjushree
16	10X22EE017	Muhammed Zenin P	Muhammed Zenin P
17	10X22EE018	Navyasri L S	Navyasri L S
18	10X22EE019	Nikhil Rathod	Nikhil Rathod
19	10X22EE020	Nithin Kumar S N	Nithin Kumar S N
20	10X22EE021	Poovamma A C	Poovamma A C
21	10X22EE022	Prajwal Gupta	Prajwal Gupta
22	10X22EE023	Prajwal N	Prajwal N
23	10X22EE024	Prashant	Prashant

S.No	USN	Name of the Student	Signature of the Student
24	IOX22EE026	Rabiya Begum	Rabiya Begum
25	IOX22EE027	Ravi Teja J M	Ravi Teja J M
26	IOX22EE028	SnehaSathish	Sneha Sathish
27	IOX22EE029	Suchithra B L	Suchithra B L
28	IOX22EE030	Tejas S N	Tejas S N
29	IOX22EE031	Umer Khan	Umer Khan
30	IOX22EE032	Varshitha G M	Varshitha G M
31	IOX22EE033	Vedhanth B	Vedhanth B
32	IOX23EE400	Akhilesh Aravind Dengare	Akhilesh Aravind Dengare
33	IOX23EE401	Bhavesh S	Bhavesh S
34	IOX23EE402	Charan Kumar G	Charan Kumar G
35	IOX23EE403	Chetan Kumar G	Chetan Kumar G
36	IOX23EE404	Deeksha	Deeksha
37	IOX23EE406	Harish R	Harish R
38	IOX23EE407	Haseeb Khan	Haseeb Khan
39	IOX23EE408	Kishan M S	Kishan M S
40	IOX23EE409	Kushal Madhav	Kushal Madhav
41	IOX23EE410	Kushala K	Kushala K
42	IOX23EE411	Leelasivashankar K	Leelasivashankar K
43	IOX23EE412	Nanditha D N	Nanditha D N
44	IOX23EE413	Nouman Ul Haq	Nouman Ul Haq
45	IOX23EE414	Pooja	Pooja
46	IOX23EE415	Prajwal R	Prajwal R

S.No	USN	Name of the Student	Signature of the Student
47	IOX23EE416	R Govardhan	<i>R Govardhan</i>
48	IOX23EE417	Rachamalli Satwik	<i>R. Satwik</i>
49	IOX23EE418	Raghu M	<i>Raghu M</i>
50	IOX23EE419	Sahana V	<i>Sahana V</i>
51	IOX23EE420	Sudeep G K	<i>Sudeep G K</i>
52	IOX23EE422	V R Yogeshwini	<i>V R Yogeshwini</i>
53	IOX23EE423	Varshith B S	<i>Varshith B S</i>
54	IOX23EE424	Varun Basavaraj Changali	<i>Varun</i>
55	IOX23EE425	Venu Y V	<i>Venu Y V</i>
56	IOX23EE426	Yashaswini B M	<i>Yashaswini</i>
57	IOX23EE427	Yashwanth M R	<i>Yashwanth M R</i>
S.No	EMPCODE	Name of the Faculty	Signature of the Faculty
58	ENGG1070	Dr. S Devi Vigneshwar	<i>Dr. S Devi Vigneshwar</i>
59	ENGG0052	Dr. Nisha C Rani	<i>Nisha</i>
60	ENGG10042	Jayakumar N	<i>N. Jay</i>
61	ENGG0298	Rachel Ruby M	<i>Ruby</i>
62	Engg 1401	Reena S R	<i>Reena S R</i>

Nisha C Rani
31/5/2024
IIC Innovation Ambassadors

S/c Devi
31/5/24
HOD/EEE IIC Convenor

[Signature]
President IIC

Institutions Innovation Council The Oxford College of Engineering
The Oxford College of Engineering Bommanahalli, Hosur Road
Bengaluru-560068 Bengaluru-560 068