

Dr. Ambedkar Institute of Technology, Bengaluru-560056
Outcome Based Education(OBE) and Choice Based Credit System
B.E. Name of the programme: Computer Science & Business Systems
Tentative Scheme of Teaching and Examination effective from the Academic Year 2024-25
2022 Scheme

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 Lectur e	Tutor ial	Practic al/ Drawin g	Self - Study	Duratio n in hours	CIE Marks	SEE Marks	Total Mark s	
					L	T	P	S					
1	HSMS	22CBT501	Introduction to Innovation, Management & Entrepreneurship	IP CB/MBA	3	0	0		03	50	50	100	3
2	IPCC	22CBU502	Automata Theory & Introduction to Compilers	CB/CS/IS	3		2		03	50	50	100	4
3	IPCC	22CBU503	Cloud Computing	CB/CS/IS	3	0	2		03	50	50	100	4
4	PCCL	22CBL504	Java Programming Lab	CB/CS/IS	0	0	2		03	50	50	100	1
5	PEC	22CBT505x	Professional Elective Course	CB/CS/IS	3	0	0		03	50	50	100	3
6	PROJ	22CBM506	Mini Project	CB/CS/IS	0	0	4		03	100		100	2
7	AEC	22RMT507	Research Methodology and IPR	EEE department	2	2	0		02	50	50	100	3
8	MC	22CVT508	Environmental Studies	TD: CV PSB: CV	2	0	0		02	50	50	100	2
9	HS	22CDN509	Aptitude and Verbal Ability Skills	Placement Cell	2	0	0		--	50	--	50	PP/ NP
10	MC	22NSN510	National Service Scheme (NSS)	NSS coordinator	0	0	2			100	---	100	PP/ NP
		22PEN510	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		22YON510	Yoga	Yoga Teacher									
Total										500	300	800	22

PCC: Professional Core Course, PCCL: Professional Core Course laboratory, UHV: Universal Human Value Course, MC: Mandatory Course (Non-credit), AEC: Ability Enhancement Course, SEC: Skill Enhancement Course, L: Lecture, T: Tutorial, P: Practical, S= Self-Study CIE: Continuous Internal Evaluation, SEE: Semester End

Evaluation. K : The letter in the course code indicates common to all the stream of Engineering. PROJ: Project /Mini Project. PEC: Professional Elective Course Professional Elective Course 22XXT505x			
22CBT505A	Behavioral Economics	22CBT505C	Industrial Psychology
22CBT505B	Computational Finance & Modeling	22XXT505D	

Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practicals 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). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first Week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the Degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of Degree.

Mini-project work: Mini Project is a laboratory-oriented/hands on course that will provide a platform to students to enhance their practical knowledge and skills by the development of small systems/applications etc. Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two faculty members of the Department, one of them being the Guide. The CIE marks awarded for the Mini-project work shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the ratio of 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 the guides of the project.

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

No SEE component for Mini-Project.

Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of Engineering. Each group will provide an option to select one course. The minimum number of students' strengths for offering a professional elective is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.

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VI SEMESTER	
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MC	22PEN609	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100	---	100	PP/ NP
	22YON609	Yoga	Yoga Teacher									
Total									500	300	800	18

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Professional Elective Course: 22XXT603x			
22CBT603A	Financial & Cost Accounting	22CBT603C	Modern Day Robotics & Its Industrial Applications
22CBT603B	Information security	22CBT603D	Modern Web Applications
Open Elective Course 22XXT604x			
22CBT604A	Data Mining & Analytics	22XXT604C	Introduction to Innovation, IP Management & Entrepreneurship
22CBT604B	International Business Management	22XXT604D	

Ability Enhancement Course / Skill Enhancement Course-V 22XXT607x OR 22XXL607x			
22CBX607A	Business Communication & Value Science III	22CBX607C	Image Processing & Pattern Recognition
22CBX607B	Enterprise System	22XXX607D	

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Open Elective Courses:

Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they can opt for an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under the guidance of the Program Coordinator/ Advisor/Mentor. The minimum numbers of students' strength for offering Open Elective Course is 10. However, this condition shall not be applicable to class where the admission to the program is less than 10.

Project Phase-I : Students have to discuss with the mentor /guide and with their help he/she has to complete the literature survey and prepare the report and finally define the problem statement for the project work.