

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 2023-24

III SEMESTER

III SEMESTER													
Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting	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	BSC	MAT301CB	Mathematics Course	Maths	3	2	0	0	05	50	50	100	4
2	IPCC	CBU302	Digital Design & Computer Organization	CB/CS/IS	3	0	2	0	03	50	50	100	4
3	IPCC	CBU303	Database Management Systems	CB/CS/IS	3	0	2	0	03	50	50	100	4
4	PCC	CBT304	Data Structures and Applications	CB/CS/IS	3	1	0	0	04	50	50	100	3
5	PCCL	CBL305	Data Structures and Applications Lab	CB/CS/IS	0	0	2	0	03	50	50	100	1
6	ESC	CBT306x	ESC/ETC/PLC	CB/CS/IS	3	1	0	0	04	50	50	100	3
7	UHV	HST307	Social Connect and Responsibility	Any Department	0	0	2	0	01	100	---	100	1
8	AEC/ SEC	CBT308x or CBL308x	Ability Enhancement Course / Skill Enhancement Course – III	CB/CS/IS	If the course is a Theory				01	50	50	100	1
					1	0	0	0					
					If a course is a laboratory				02				
					0	0	2	0					
9	HS	CDN309	Aptitude and Verbal Ability Skill-I	Placement Cell	2	0	0	0	--	50	--	50	PP/NP
10	MC	NSN310	National Service Scheme (NSS)	NSS coordinator	0	0	2	0	- -	100	- - -	100	PP/NP
		PEN310	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		YON310	Yoga	Yoga Teacher									
Total									550	350	900	21	

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:** This letter in the course code indicates common to all the streams of Engineering. **ESC:** Engineering Science

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Engineering Science Course (ESC/ETC/PLC) CBT306x			
CBT306A		CBT306C	Java Programming
CBT306B	OOPS with C++	CBT306D	
Ability Enhancement Course – III CBT308x OR CBL308x			
CBT308A	Business Communication & Value Science 1		
CBT308B	Principles of Economics		
<p>Professional Core Course (IPCC): Refers to Professional Core Course Theory 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). 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.</p> <p>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.</p>			

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IV SEMESTER													
Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
					Theory	Tutorial	Practical / Drawing	Self - Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	CBT401	Fundamentals of Management	CB/MBA	3	0	0	0	03	50	50	100	3
2	IPCC	CBU402	Operating Systems (Unix Environment)	CB/CS/IS	3	0	2	0	03	50	50	100	4
3	IPCC	CBU403	Analysis and Design Of Algorithms	CB/CS/IS	3	0	2	0	03	50	50	100	4
4	PCCL	CBL404	Software Engineering Lab	CB/CS/IS	0	0	2	0	03	50	50	100	1
5	ESC	CBT405x	ESC/ETC/PLC	CB/MBA	3	0	0	0	03	50	50	100	3
6	AEC/ SEC	CBT406x or CBL406x	Ability Enhancement Course/Skill Enhancement Course-IV	TD and PSB: Concerned department	If the course is Theory				01	50	50	100	1
					1	0	0	0					
					If the course is a lab				02				
					0	0	2	0					
7	BSC	BIT407	Biology For Engineers	TD / PSB: BT, CHE,	2	0	0	0	03	50	50	100	2
8	UHV	HST408	Universal human values course	Any Department	1	0	0	0	01	50	50	100	1
9	HS	CDN409	Aptitude and Verbal Ability Skill-II	Placement Cell	2	0	0	0	--	50	--	50	PP/ NP
10	MC	NSN410	National Service Scheme (NSS)	NSS coordinator	0	0	2	0	02	100	---	100	PP/ NP
		PEN410	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		YON410	Yoga	Yoga Teacher									
Total									500	400	900	19	

PCC: Professional Core Course, PCCL: Professional Core Course laboratory, UHV: Universal Human Value Course, MC: Mandatory Course (Non-credit), EC: Ability Enhancement Course, SEC: Skill Enhancement Course, L: Lecture, T: Tutorial, P: Practical, S= Self-Study, CIE: Continuous Internal Evaluation, EE: Semester End Evaluation. K : This letter in the course code indicates common to all the stream of engineering.

Engineering Science Course (ESC/ETC/PLC) CBT405x OR CBL405x			
CBT405A	Strategic Management	CBT405C	Design Thinking
CBT405B	Marketing Research & Marketing Management	CBT405D	
Ability Enhancement Course / Skill Enhancement Course – IV 22CBT405x OR 22CBL406x			
CBT406A	Business Communication & Value Science II	CBT406C	Operations Research
CBT406B	Introduction to Block chain		
<p>Professional Core Course (IPCC): Refers to Professional Core Course Theory 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). 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.</p> <p>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 courses is mandatory for the award of Degree.</p>			