

Dr. Ambedkar Institute of Technology, Bengaluru-560056

Outcome Based Education(OBE) and Choice Based Credit System (CBCS)(As per NEP2020)

Scheme of Teaching and Examination for I/II Semester B.E., (Common to all B.E. Programmes)Academic Year:2021-22

Physics Cycle : I/II Semester

Sl. No.	Course Category	Course Code	Course Title	Teaching Department	Teaching Hours/ Week					Examination				Credits
					L	T	P	S	Total	Duration (Hrs)	CIE Marks	SEE Marks	Total Marks	
1	BS	21MAT101	Calculus and Differential equations	Mathematics	3	2	0	0	5	3	50	50	100	4
		21MAT201	Advanced Calculus and Numerical methods											
2	BS	21PHT102/ 21PHT202	Engineering Physics	Physics	3	0	0	0	3	3	50	50	100	3
3	ES	21EET103/ 21EET203	Basic Electrical Engineering	Electrical	2	2	0	0	4	3	50	50	100	3
4	ES	21CVT104/ 21CVT204	Civil Engineering & Mechanics	Civil	3	0	0	0	3	3	50	50	100	3
5	ES	21MEL105/ 21MEL205	Engineering Graphics	Mechanical	2	0	2	0	4	3	50	50	100	3
6	BS	21PHL106/ 21PHL206	Engineering Physics Lab	Physics	0	0	2	0	2	3	50	50	100	1
7	ES	21EEL107/ 21EEL207	Basic Electrical Engineering lab	Electrical	0	0	2	0	2	3	50	50	100	1
8	HS	21HST108 21HST208	Communicative English Professional Writing Skills in English	Humanities	1	0	1*	0	2	2	50	50	100	1
9	AE	21HST109 21CVT209	Health and Wellness Rural Development Engineering	Humanities	1	0	1*	0	2	2	50	50	100	1
				Civil										
10	MC	21HSN110 21HSN210	Career Development Skill-I Career Development Skill-II	Humanities	1	0	1*	0	2	--	50	--	50	0
Total					29						500	450	950	20

Note: BS: Basic Science Course, ES: Engineering Science Course, HS: Humanities & Social Science Course,

AE: Ability Enhancement Course, MC: Mandatory Course, * No practical evaluation,

L: Lecture, T: Tutorial, P: Practical/drawing, S: Self study, CIE: Continuous Internal Evaluation, SEE: Semester End Examination

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Outcome Based Education(OBE) and Choice Based Credit System (CBCS) (As per NEP2020)														
Scheme of Teaching and Examination for I/II Semester B.E., (Common to all B.E. Programmes) Academic Year:2021-22														
Chemistry Cycle: I/II Semester														
Sl. No.	Course Category	Course Code	Course Title	Teaching Department	L	T	P	S	Total	Duration (Hrs)	CIE Marks	SEE Marks	Total Marks	Credits
1	BS	21MAT101	Calculus and Differential equations	Mathematics	3	2	0	0	5	3	50	50	100	4
		21MAT201	Advanced Calculus and Numerical methods											
2	BS	21CHT102/ 21CHT202	Engineering Chemistry	Chemistry	3	0	0	0	3	3	50	50	100	3
3	ES	21CST103/ 21CST203	Problem solving through Programming	Computer Science	2	2	0	0	4	3	50	50	100	3
4	ES	21ECT104/ 21ECT204	Basic Electronics and Communication Engineering	Electronics	2	2	0	0	4	3	50	50	100	3
5	ES	21MET105/ 21MET205	Elements of Mechanical Engineering	Mechanical	2	2	0	0	4	3	50	50	100	3
6	BS	21CHL106/ 21CHL206	Engineering Chemistry Laboratory	Chemistry	0	0	2	0	2	3	50	50	100	1
7	ES	21CSL107/ 21CSL207	Computer Programming Laboratory	Computer Science	0	0	2	0	2	3	50	50	100	1
8	HS	21HST108	Communicative English	Humanities	1	0	1*	0	2	2	50	50	100	1
9	AE	21HST208	Professional writing skills in English	Humanities	1	0	1*	0	2	2	50	50	100	1
		21HST109	Health and Wellness											
10	MC	21CVT209	Rural Development Engineering	Civil										
		21HSN110	Career Development skill-I	Humanities	1	0	1*	0	2	---	50	--	50	0
		21HSN210	Career Development skill-II											
Total									30		500	450	950	20
Note: BS: Basic Science Course, ES: Engineering Science Course, HS: Humanities & Social Science Course, AE: Ability Enhancement Course, MC: Mandatory Course, * No practical evaluation, L: Lecture, T: Tutorial, P: Practical/Drawing, S: Self study, CIE: Continuous Internal Evaluation, SEE: Semester End Examination														

Note –At the end of the second-semester summer internship shall be carried out – based on inter/intra institutional activities credited in the third semester. University /Institutions may swap few courses between a FIRST and SECOND semester to balance the workload teaching and laboratory schedule

Summer Internship - I: All the students admitted shall have to undergo a mandatory summer internship of 03 weeks during the vacation of II semesters. Summer Internship shall include Inter / Intra Institutional activities. Internship A University Viva-voce examination shall be conducted during III semesters and the prescribed credit shall be included in III semesters. The internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take up / complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements