



Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme (Hrs./week)						Examination Scheme and Marks						Credit			
				TH	PR	TUT	Contact Hours	Self Learning Hours	Total	CCE	ESE	TW	PR	OR	TOTAL	TH	PR	TUT	TOTAL
Semester-I																			
1	R25-SH-BSC-101	Basic Sciences	Linear Algebra and Calculus	4	-	-	60	60	120	40	60	-	-	-	100	4	-	-	4
2	R25-SH-BSC-102 R25-SH-BSC-103	Basic Sciences	Engineering Physics / Engineering Chemistry	3	2	-	75	45	120	40	60	25	-	-	125	3	1	-	4
3	R25-ME-ESC-104 R25-CE-ESC-105	Engineering Science Course	Systems of Mechanical Engineering / Engineering Mechanics and Civil Engineering Systems	3	-	-	45	45	90	40	60	-	-	-	100	3	-	-	3
4	R25-EE-ESC-106 R25-ET-ESC-107	Engineering Science Course	Fundamentals of Electrical Engineering / Fundamentals of Electronics Engineering	2	2	-	60	30	90	40	60	25	-	-	125	2	1	-	3
5	R25-CO-ESC-108	Engineering Science Course	Programming & Problem Solving Using Python	2	2	-	60	30	90	40	60	25	-	-	125	2	1	-	3
6	R25-ME-VSEC-109 R25-EC-VSEC-115	Vocational & Skill Enhancement Course	Engineering Workshop Skills Lab / Digital Technology Lab	-	2	-	30	-	30	-	-	50	-	-	50	-	1	-	1
7	R25-ME-VSEC-110 R25-CE-VSEC-111	Vocational & Skill Enhancement Course	Engineering Graphics Lab / Civil Engineering Lab	-	2	-	30	-	30	-	-	50	-	-	50	-	1	-	1
8	R25-SH-AEC-112 R25-SH-AEC-113	Ability Enhancement Course	Professional Communication Skill or Foreign Language (Japanese/German) / Indian Knowledge System	-	-	2	30	30	60	-	-	50	-	-	50	-	-	2	2
9	R25-SH-CC-114	Co-curricular Courses	Co-curricular Courses – I	-	2	-	30	-	30	-	-	25	-	-	25	-	1	-	1
			Total	14	12	2	420	240	660	200	300	250	0	0	750	14	6	2	22

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				TH	PR	TUT	Contact Hours	Self Learning Hours	Total	CCE	ESE	TW	PR	OR	TOTAL	TH	PR	TUT	TOTAL
Semester-II																			
1	R25-SH-BSC-116	Basic Sciences	Advanced Calculus and Numerical Integration	4	-	-	60	60	120	40	60	-	-	-	100	4	-	-	4
2	R25-SH-BSC-103 R25-SH-BSC-102	Basic Sciences	Engineering Chemistry / Engineering Physics	3	2	-	75	45	120	40	60	25	-	-	125	3	1	-	4
3	R25-CE-ESC-105 R25-ME-ESC-104	Engineering Science Course	Engineering Mechanics and Civil Engineering Systems / Systems of Mechanical Engineering	3	-	-	45	45	90	40	60	-	-	-	100	3	-	-	3
4	R25-ET-ESC-107 R25-EE-ESC-106	Engineering Science Course	Fundamentals of Electronics Engineering / Fundamentals of Electrical Engineering	2	2	-	60	30	90	40	60	25	-	-	125	2	1	-	3
5	R25-EC- PCC-118	Program Core Course	Frontieres of Technology	2	-	-	30	30	60	40	60	-	-	-	100	2		-	2
6	R25-EC-PCC-119	Program Core Course Lab	Programming in C	-	2	-	30	-	30	-	-	25	-	-	25		1	-	1
7	R25-EC- VSEC-115/ R25-ME-VSEC-109	Vocational & Skill Enhancement Course	Digital Technology Lab / Engineering Workshop Skills Lab	-	2	-	30	-	30	-	-	50	-	-	50	-	1	-	1
8	R25-ME-VSEC-111 R25-CE-VSEC-110	Vocational & Skill Enhancement Course	Civil Engineering Lab / Engineering Graphics Lab	-	2	-	30	-	30	-	-	50	-	-	50	-	1	-	1

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9	R25-SH-AEC-113 R25-SH-AEC-112	Indian Knowledge System	Professional Communication Skill or Foreign Language (Japanese/German) / Indian Knowledge System	-	-	2	30	30	60	-	-	50	-	-	50	-	-	2	2
10	R25-SH-CC-117	Co-curricular Courses	Co-curricular Courses – II	-	2	-	30	-	30	-	-	25	-	-	25	-	1	-	1
			Total	14	12	2	420	240	660	200	300	250	0	0	750	14	6	2	22

Exit option: Award of UG Certificate in Major with 44 credits and an additional 8 credits from following Exit Courses

Course Code	Course Title	L	T	P	Credits	Contact Hrs	TW	OR	Total Marks
R25-CO-EXC-101A	Desktop Engineering and IT Support	–	–	–	4	–	100		100
R25-CO-EXC-101B	Project	–	–	16	4	16	50	50	100
Total									200

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