



Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme (Hrs./week)						Examination Scheme and Marks						Credit			
				TH	PR	TUT	Contact Hours	Self Learning	Total	CCE	ESE	TW	PR	OR	TOTAL	TH	PR	TUT	TOTAL
Semester-I																			
1	R25-SH-BSC-101	Basic Science Course	Linear Algebra and Calculus	4	-	-	60	60	120	40	60	-	-	-	100	4			4
2	R25-SH-BSC-103	Basic Science Course	Engineering Chemistry	3	2	-	45	45	120	40	60	25	-	-	125	3	1		4
3	R25-ME-ESC-104	Engineering Science Course	Systems of Mechanical Engineering	3	-	-	45	45	90	40	60	-	-	-	100	3			3
4	R25-EE-ESC-106	Engineering Science Course	Fundamentals of Electrical Engineering	2	2	-	30	30	90	40	60	25	-	-	125	2	1		3
5	R25-CO-ESC-108	Engineering Science Course	Programming & Problem-Solving Using Python	2	2	-	30	30	90	40	60	25	-	-	125	2	1		3
6	R25-ME-VSEC-109	Vocational & Skill Enhancement Course	Engineering Workshop Skills Lab	-	2	-	30	-	30	-	-	50	-	-	50		1		1
7	R25-ME-VSEC-110	Vocational & Skill Enhancement Course	Engineering Graphics Lab	-	2	-	30	-	30	-	-	50	-	-	50		1		1
8	R25-SH-AEC-113	Ability Enhancement Course	Indian Knowledge System	-	-	2	30	30	60	-	-	50	-	-	50			2	2
9	R25-SH-CC-114	Cocurricular Courses	Cocurricular Courses - I	-	2	-	30	-	30	-	-	25	-	-	25		1		1
			Total	14	12	2	330	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 Science Course	Differential Equation and Numerical Integration	4	-	-	60	60	120	40	60	-	-	-	100	4			4
2	R25-SH-BSC-102	Basic Science Course	Engineering Physics	3	2	-	45	45	120	40	60	25	-	-	125	3	1		4
3	R25-CE-ESC-105	Engineering Science Course	Engineering Mechanics and Civil Engineering Systems	3	-	-	45	45	90	40	60	-	-	-	100	3			3
4	R25-ET-ESC-107	Engineering Science Course	Fundamentals of Electronics Engineering	2	2	-	30	30	90	40	60	25	-	-	125	2	1		3
5	R25-AR-PCC-118	Program Core Course	Foundation of Automation & Robotics Engineering	2	-	-	30	30	60	40	60	-	-	-	100	2			2
6	R25-IT-PCC-119	Program Core Course Lab	Programming in C	-	2	-	30		30	-	-	25	-	-	25		1		1
7	R25-AR-VSEC-115	Vocational & Skill Enhancement Course	Digital Technology Lab	-	2	-	30	-	30	-	-	50	-	-	50		1		1



8	R25-CE-VSEC-111	Vocational & Skill Enhancement Course	Civil Engineering Lab	-	2	-	30	-	30	-	-	50	-	-	50		1		1
9	R25-SH-AEC-112	Indian Knowledge System	Professional Communication Skill or Foreign Language (Japanese/German)	-	-	2	30	30	60	-	-	50	-	-	50			2	2
10	R25-SH-CC-117	Cocurricular Courses	Cocurricular Courses - II	-	2		30	-	30	-	-	25	-	-	25		1		1
Total				14	12	2	360	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-AR-EXC-101A	Robot Operating and Programming	—	—	—	4	—	100		100
R25-AR-EXC-101B	Project	—	—	16	4	16	50	50	100
Total									200