



Sr. No.	Course Code	Course Type	Name of the Subject	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-III																			
1	R25-AR-PCC-201	Program Core course - 1	Electrical drives and Control	3	-	-	45	45	90	40	60	-	-	-	100	3	-	-	3
2	R25-AR-PCC-202	Program Core course - 2	Industrial Automation Technology	3	-	-	45	45	90	40	60	-	-	-	100	3	-	-	3
3	R25-AR-PCC-203	Program Core course - 3	Manufacturing Engineering and Technology	3	-	-	45	45	90	40	60	-	-	-	100	3	-	-	3
4	R25-AR-MDM-204	Multidisciplinary Course-1	Applied Mathematics	3	-	-	45	45	90	40	60	-	-	-	100	3	-	-	3
5	R25-AR-OEC-205	Open Elective - 1	To be chosen from a basket of Open Elective- I finalized at college level	2	-	-	30	30	60	40	60	-	-	-	100	2	-	-	2
6	R25-AR-EEM-206	Entrepreneurship/ Economics/ Management course	Design Thinking and Entrepreneurship	1	2	-	15	15	60	25	-	25	-	-	50	1	1	-	2
7	R25-AR-VEC-207	Value Education Course	Universal Human Values & Ethics	2	-	-	30	30	60	50	-	-	-	-	50	2	-	-	2
8	R25-AR-PCC-208	Program Core Course-Lab	Drive and Control Technology Laboratory	-	2	-		-	30	-	-	25	-	25	50	-	1	-	1



9	R25-AR-PCC-209	Program Core Course Lab / Multidisciplinary Course-Lab	Industrial Automation Laboratory	-	2	-	-	-	30	-	-	25	25	-	50	-	1	-	1
10	R25-AR-CEP-210	Community Engagement Project / Field Project	Community Engagement Project	-	4	-	-	-	60	-	-	50	-	-	50	-	2	-	2
				17	10	0	255	255	660	275	300	125	25	25	750	17	5	0	22

Note: Open Elective basket and MDM Courses offered at college level, are enlisted after Sem-VIII.

Semester-IV																			
Sr. No.	Course Code	Course Type	Name of the Subject	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
1	R25-AR-PCC-211	Program Core course - 4	Fundamentals of Industrial Robotics	3	-	-	45	45	90	40	60	-	-	-	100	3	-	-	3
2	R25-AR-PCC-212	Program Core course - 5	Mechanism and Robot Kinematics	3	-	-	45	45	60	40	60	-	-	-	100	3	-	-	3
3	R25-AR-PCC-213	Program Core course - 6	Materials and Machine Elements	2	-	-	30	30	90	40	60	-	-	-	100	2	-	-	2
4	R25-AR-MDM-214	Multidisciplinary Course - 2	Data Science & Visualization	2	-	-	30	30	60	40	60	-	-	-	100	2	-	-	2
5	R25-AR-OEC-215	Open Elective - 2	To be chosen from a basket of Open Elective- II finalized at college level	2	-	-	30	30	60	40	60	-	-	-	100	2	-	-	2


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6	R25-AR-VSC-216	Vocational Skill Course	Material Testing and Characterization	1	2	-	15	15	60	-	-	25	-	25	50	1	1	-	2
7	R25-AR-AEC-217	Ability Enhancement Course	Modern Indian Language and Technical Writing	1	2	-	15	15	60	-	-	50	-	-	50	1	1	-	2
8	R25-AR-EEM-218	Entrepreneurship/Economics/Management course	Engineering Economics and Financial Management	2	-	-	30	30	60	50	-	-	-	-	50	2	-	-	2
9	R25-AR-PCC-219	Program Core Course- Lab	Robots Programming Laboratory - I	-	2	-	30	-	30	-	-	-	25	-	25	-	1	-	1
10	R25-AR-PCC-220	Program Core Course Lab	Mechanism and Robot Kinematics Lab	-	2	-	30	-	30	-	-	25	-	-	25	-	1	-	1
11	R25-AR-VEC-221	Value Education Course	Environmental Science and Sustainable Development	2	-	-	30	30	60	50	-	-	-	-	50	2	-	-	2
				18	8	0	330	270	660	300	300	100	25	25	750	18	4	0	22

Exit option: Award of UG Diploma in Major with 88 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	Aerial Robotics	-	-	-	4	-	100		100
R25-AR-EXC-101B	Project	-	-	16	4	16	50	50	100
Total									200


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