Semester - 1

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	**Subject**	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203200101	Research Methodology & IPR	2	2	0	0	20	-	20	60	-	50	-	100
203230102	Manufacturing Automation	4	3	2	0	20	20	20	60	30	50	25	150
203232101	Robot Operating Systems and Linux	4	3	2	-	20	20	20	60	30	50	25	150
	AUDIT-1	0 - 0	-	-	-	-	-	-	-	-	-	-	
	Elective - 1	4 - 4	-	-	-	-	-	-	-	-	-	-	
	Elective - 2	4 - 4	-	-	-	-	-	-	-	-	-	-	
	Total	18 - 18	8	4	0								400

Semester - 1 : AUDIT-1

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	**Subject**	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203200102	English for Research Paper Writing	0	2	0	0	20	-	20	60	-	50	-	100
203200103	Disaster Management	0	2	0	0	20	-	20	60	-	50	-	100
203200104	Sanskrit for Technical Knowledge	0	2	0	0	20	-	20	60	-	50	-	100
203200105	Value Education	0	2	0	0	20	-	20	60	-	50	-	100

Semester - 1 : Elective - 1

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	**Subject**	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203230132	Advanced Electrical Drives	4	3	2	0	20	20	20	60	30	50	25	150
203230133	Digital Signal Processing	4	3	2	0	20	20	20	60	30	50	25	150
203232131	Mobile Robotics	4	3	2	-	20	20	20	60	30	50	25	150

Semester - 1 : Elective - 2

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	**Subject**	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203230134	Micro Electro-Mechanical Systems	4	3	2	0	20	20	20	60	30	50	25	150
203230135	Embedded Systems	4	3	2	0	20	20	20	60	30	50	25	150
203232136	Robotics Engineering	4	3	2	-	20	20	20	60	30	50	25	150

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 50 **Practical Passing % :** 50

Semester - 2 : AUDIT-2

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	**Subject**	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203200151	Constitution of India	0	-	-	2	-	40	60	-	-	-	50	100
203200152	Pedagogy Studies	0	-	-	2	-	40	60	-	-	-	50	100
203200153	Stress Management by Yoga	0	-	-	2	-	40	60	-	-	-	50	100
203200154	Personality Development through Life Enlightenment Skills	0	-	-	2	-	40	60	-	-	-	50	100

Semester - 2

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	**Subject**	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203230152	Industrial Process Automation	4	3	2	0	20	20	20	60	30	50	25	150
203232151	Advanced Robotics	4	3	2	0	20	20	20	60	30	50	25	150
203232153	Seminar & Mini Project	2	0	4	0	-	50	-	-	50	-	50	100
	AUDIT-2	0 - 0	-	-	-	-	-	-	-	-	-	-	
	Elective - 3	4 - 4	-	-	-	-	-	-	-	-	-	-	
	Elective - 4	4 - 4	-	-	-	-	-	-	-	-	-	-	
	Total	18 - 18	6	8	0								400

Semester - 2 : Elective - 3

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	**Subject**	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203230183	Digital Manufacturing and Smart Factories	4	3	2	0	20	20	20	60	30	50	25	150
203232181	Advanced Embedded Systems	4	3	2	0	20	20	20	60	30	50	25	150
203232182	Intelligent Sensors and Actuators	4	3	2	0	20	20	20	60	30	50	25	150

Semester - 2 : Elective - 4

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	**Subject**	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203232184	Autonomous Navigation and Path Planning	4	3	2	0	-	-	-	60	30	50	25	150
203232185	Artificial Intelligence and Machine Learning	4	3	2	0	20	20	20	60	30	50	25	150
203232186	Swarm Intelligence	4	3	2	0	-	-	-	60	30	50	25	150

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 50 **Practical Passing % :** 50