



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	2.00	2	0	0	20	-	20	60	-	50	-	100
203219101	Computer Graphics and Application in Design	4.00	3	2	0	20	20	20	60	30	50	25	150
203219102	Finite Element Analysis in Design and Manufacturing	4.00	3	2	0	20	20	20	60	30	50	25	150
	AUDIT-1 (Compulsory Subjects :1)	0.00	2	0	0	40	-	-	60	-	-	-	100
	Elective - 1 (Compulsory Subjects :1)	4.00	3	0	1	40	20	-	60	30	-	-	150
	Elective - 2 (Compulsory Subjects :1)	4.00	3	0	1	40	20	-	60	30	-	-	150
	Total	18.00	16	4	2								800

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	0.00	2	0	0	20	-	20	60	-	50	-	100
203200103	Disaster Management	0.00	2	0	0	20	-	20	60	-	50	-	100
203200104	Sanskrit for Technical Knowledge	0.00	2	0	0	20	-	20	60	-	50	-	100
203200105	Value Education	0.00	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.	
203217131	Design for Manufacturing and Assembly	4.00	3	0	1	20	20	20	60	30	50	25	150
203219130	Advanced Metrology and Inspection Techniques	4.00	3	0	1	20	20	20	60	30	50	25	150
203219131	Robotics and Industrial Automation	4.00	3	0	1	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.	
203217135	Analysis and Synthesis of Mechanisms	4.00	3	0	1	20	20	20	60	30	50	25	150
203219132	Advances in Materials and Manufacturing Technologies	4.00	3	0	1	20	20	20	60	30	50	25	150
203219133	Advanced Tool Design	4.00	3	0	1	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	0.00	-	-	2	-	40	60	-	-	-	50	100
203200152	Pedagogy Studies	0.00	-	-	2	-	40	60	-	-	-	50	100
203200153	Stress Management by Yoga	0.00	-	-	2	-	40	60	-	-	-	50	100
203200154	Personality Development through Life Enlightenment Skills	0.00	-	-	2	-	40	60	-	-	-	50	100

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.	
203217180	Tribology in Design	4.00	3	0	1	20	20	20	60	30	50	25	150
203219180	Computer Aided Process Planning	4.00	3	0	1	20	20	20	60	30	50	25	150
203219181	Computer Integrated Manufacturing	4.00	3	0	1	20	20	20	60	30	50	25	150

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.	
203219151	Seminar & Mini Project	2.00	0	4	0	-	50	-	-	50	-	50	100
203219152	Computer Aided Manufacturing	4.00	3	2	0	20	20	20	60	30	50	25	150
203219153	Rapid Prototyping and Tooling	4.00	3	2	0	20	20	20	60	30	50	25	150



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.	
	AUDIT-2 (Compulsory Subjects :1)	0.00	-	-	2	-	100	-	-	-	-	-	100
	AUDIT-2 (Compulsory Subjects :1)	0.00	-	-	2	-	100	-	-	-	-	-	100
	Elective - 3 (Compulsory Subjects :1)	4.00	3	0	1	40	20	-	60	30	-	-	150
	Elective - 3 (Compulsory Subjects :1)	4.00	3	0	1	40	20	-	60	30	-	-	150
	Elective - 4 (Compulsory Subjects :1)	4.00	3	0	1	40	20	-	60	30	-	-	150
	Elective - 4 (Compulsory Subjects :1)	4.00	3	0	1	40	20	-	60	30	-	-	150
	Total	26.00	18	8	8								1200

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.	
203219182	Concurrent Engineering	4.00	3	0	1	20	20	20	60	30	50	25	150
203219186	Hydraulics and Pneumatics	4.00	3	0	1	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 - 3 Open Elective

						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.	
203200201	Business Analytics	3.00	3	0	0	20	-	20	60	-	50	-	100
203200202	Industrial Safety	3.00	3	0	0	20	-	20	60	-	50	-	100
203200203	Operation Research	3.00	3	0	0	20	-	20	60	-	50	-	100
203200204	Cost Management of Engineering Projects	3.00	3	0	0	20	-	20	60	-	50	-	100
203200205	Composite Materials	3.00	3	0	0	20	-	20	60	-	50	-	100
203200206	Waste to Energy	3.00	3	0	0	20	-	20	60	-	50	-	100

Semester - 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.	
203219201	Phase - I Dissertation	10.00	0	20	0	-	100	-	-	100	-	100	200
	Elective-5 (Compulsory Subjects :1)	3.00	3	0	0	40	-	-	60	-	-	-	100
	Open Elective (Compulsory Subjects :1)	3.00	3	0	0	40	-	-	60	-	-	-	100
	Total	16.00	6	20	0								400



Semester - 3 Elective-5

						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.	
203219230	Engineering Optimization	3.00	3	0	0	20	-	20	60	-	50	-	100
203219231	Artificial Intelligence and Expert Systems in Manufacturing	3.00	3	0	0	20	-	20	60	-	50	-	100
203219232	Product Design and Development	3.00	3	0	0	20	-	20	60	-	50	-	100

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



Semester - 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.	
203219251	Phase - II Dissertation	16.00	0	32	0	-	100	-	-	100	-	100	200
	Total	16.00	0	32	0								200

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