



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.	
03605101	Environmental Science	0.00	2	-	-	20	-	20	-	-	16	-	40
03605104	Elements of Civil Engineering Lab	1.00	0	2	0	-	50	-	-	-	-	20	50
03606102	Introduction to IT Systems Lab	2.00	-	4	-	-	100	-	-	-	-	40	100
03607151	Fundamentals of Electrical and Electronics Engineering	3.00	2	-	1	20	-	20	60	-	40	-	100
03607152	Fundamentals of Electrical and Electronics Engineering Lab	1.00	-	2	-	-	50	-	-	-	-	20	50
03609101	Engineering Graphics	1.00	1	-	-	20	-	20	60	-	40	-	100
03609102	Engineering Graphics Lab	2.00	-	4	-	-	100	-	-	-	-	40	100
03691101	Mathematics - I	3.00	2	-	1	20	-	20	60	-	40	-	100
03692103	Applied Physics	3.00	3	-	-	20	-	20	60	-	40	-	100
03692104	Applied Physics Lab	1.00	-	2	-	-	50	-	-	-	-	20	50
03693103	Communication Skills - I	1.00	1	-	-	-	-	100	-	-	40	-	100
	Total	18.00	11	14	2								890

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 40



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.	
03602107	Applied Chemistry	3.00	3	-	-	20	-	20	60	-	40	-	100
03602108	Applied Chemistry Lab	1.00	-	2	-	-	50	-	-	-	-	20	50
03605151	Engineering Mechanics	3.00	3	-	-	20	-	20	60	-	40	-	100
03605152	Engineering Mechanics Lab	1.00	-	2	-	-	50	-	-	-	-	20	50
03609151	Fundamentals of Mechanical Engineering	3.00	2	-	1	20	-	20	60	-	40	-	100
03609154	Engineering Workshop Practice	2.00	-	4	-	-	100	-	-	-	-	40	100
03609157	Engineering Drafting	1.00	1	-	-	20	-	20	60	-	40	-	100
03609158	Engineering Drafting (Lab)	2.00	-	4	-	-	100	-	-	-	-	40	100
03691151	Mathematics-II	4.00	3	-	1	20	-	20	60	-	40	-	100
03693153	Communication Skills - II	1.00	1	-	-	-	-	100	-	-	40	-	100
	Total	21.00	13	12	2								900

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 40



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.	
03600201	Entrepreneurship and Start-ups	1.00	1	-	-	20	-	20	60	-	40	-	100
03609203	Material Science	3.00	3	-	-	20	-	20	60	-	40	-	100
03609204	Material Science Lab	1.00	-	2	-	-	50	-	-	-	-	20	50
03609207	Manufacturing Engineering - I	3.00	3	-	-	20	-	20	60	-	40	-	100
03609209	Thermal Engineering - I	3.00	3	-	-	20	-	20	60	-	40	-	100
03609210	Thermal Engineering - I Lab	1.00	-	2	-	-	50	-	-	-	-	20	50
03609211	Basic Thermodynamics	3.00	3	-	-	20	-	20	60	-	40	-	100
03609215	Fluid Mechanics and Hydraulic Machinery	4.00	4	-	-	20	-	20	60	-	40	-	100
03609216	Fluid Mechanics and Hydraulic Machinery Lab	2.00	-	4	-	-	100	-	-	-	-	40	100
03609218	Manufacturing Engineering - I Lab	2.00	-	4	-	-	100	-	-	-	-	40	100
03693203	Professional Communication and Critical Thinking	1.00	1	-	-	-	-	100	-	-	40	-	100
	Total	24.00	18	12									1000

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 40



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.	
03600251	Essence of Indian Knowledge and Tradition	0.00	2	-	-	20	-	20	-	-	16	-	40
03605211	Strength of Materials	3.00	2	-	1	20	-	20	60	-	40	-	100
03605212	Strength of Materials Lab	1.00	-	2	-	-	50	-	-	-	-	20	50
03609251	Measurement and Metrology	3.00	3	-	-	20	-	20	60	-	40	-	100
03609252	Measurements and Metrology Lab	1.00	-	2	-	-	50	-	-	-	-	20	50
03609253	Thermal Engineering - II	3.00	3	-	-	20	-	20	60	-	40	-	100
03609254	Thermal Engineering - II Lab	1.00	-	2	-	-	50	-	-	-	-	20	50
03609256	Computer Aided Machine Drawing Practice	2.00	-	4	-	-	100	-	-	-	-	40	100
03609264	Minor Project	1.00	-	2	-	-	50	-	-	-	-	20	50
03693251	Employability Skills	1.00	1	-	-	-	-	100	-	-	40	-	100
	Program Elective - I (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	Program Elective - II (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	Total	22.00	17	12	1								940

Semester - 4 Program Elective - II

						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.	
03609281	Power Plant Engineering	3.00	3	-	-	20	-	20	60	-	40	-	100
03609285	Material Handling System	3.00	3	-	-	20	-	20	60	-	40	-	100



Semester - 4 Program Elective - I

						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.	
03609283	Computer Aided Design and Manufacturing	3.00	3	-	-	20	-	20	60	-	40	-	100
03609287	Hybrid Vehicles	3.00	3	-	-	20	-	20	60	-	40	-	100

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 40



Semester - 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.	
03609301	Advanced Manufacturing Processes	3.00	3	-	-	20	-	20	60	-	40	-	100
03609303	Theory of Machines and Mechanisms	3.00	2	-	1	20	-	20	60	-	40	-	100
03609308	Computer Aided Manufacturing System Lab	1.00	-	2	-	-	30	-	-	20	-	20	50
03609312	Summer Internship - II	2.00	-	-	-	-	100	-	-	-	-	40	100
03609314	Advanced Manufacturing Processes Lab	2.00	-	4	-	-	60	-	-	40	-	40	100
03609316	Major Project - I	6.00	-	12	-	-	60	-	-	40	-	40	100
	Program Elective - III (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	Program Elective - IV (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	Total	23.00	11	18	1								750

Semester - 5 Program Elective - III

						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.	
03609331	Tool Engineering	3.00	3	-	-	20	-	20	60	-	40	-	100
03609333	Mechatronics	3.00	3	-	-	20	-	20	60	-	40	-	100



Semester - 5 Program Elective - IV

						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.	
03609335	Heat Transfer	3.00	3	-	-	20	-	20	60	-	40	-	100
03609337	Production and Operations Management	3.00	3	-	-	20	-	20	60	-	40	-	100

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 40



Semester - 6

						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.	
03600351	Indian Constitution	0.00	2	-	-	20	-	20	-	-	16	-	40
03609351	Design of Machine Elements	3.00	2	-	1	20	-	20	60	-	40	-	100
03609352	Design of Machine Elements - Lab	1.00	-	2	-	-	30	-	-	20	-	20	50
03609353	Refrigeration and Air-Conditioning	3.00	3	-	-	20	-	20	60	-	40	-	100
03609361	Estimation and Costing	2.00	2	-	-	20	-	20	60	-	40	-	100
03609362	Estimation and Costing Lab	1.00	-	2	-	20	-	20	60	-	40	-	100
03609363	Fabrication Technology	2.00	2	-	-	20	-	20	60	-	40	-	100
03609364	Fabrication Technology Lab	1.00	-	2	-	-	30	-	-	20	-	20	50
03609366	Major Project - II	6.00	-	12	-	-	90	-	-	60	-	60	150
	Total	19.00	11	18	1								790

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 40