

**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.	
303105102	Programming for Problem Solving	4.00	3	2	0	20	20	20	60	30	40	25	150
303106101	Basic Electrical Engineering	4.00	3	2	0	20	20	20	60	30	40	25	150
303109102	Elements of Mechanical Engineering	4.00	3	2	0	20	20	20	60	30	40	25	150
303191101	Mathematics-I	4.00	4	-	-	20	-	20	60	-	40	-	100
303193103	Communication Skills	2.00	-	-	2	-	-	100	-	-	40	-	100
	Elective - 1 (Compulsory Subjects :1)	4.00	3	2	0	40	20	-	60	30	-	-	150
	Total	22.00	16	8	2								800

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.	
303192102	Engineering Physics-II	4.00	3	2	0	20	20	20	60	30	40	25	150

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50

**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.	
303100101	Workshop	2.00	0	4	0	-	40	-	-	60	-	50	100
303104105	Environmental Science	0.00	1	0	0	-	-	50	-	-	20	-	50
303104155	Mechanics of Solids	4.00	3	2	0	20	20	20	60	30	40	25	150
303107151	Basic Electronics	4.00	3	2	0	20	20	20	60	30	40	25	150
303109101	Engineering Graphics	4.00	2	4	0	20	20	20	60	30	40	25	150
303191151	Mathematics-II	4.00	4	-	-	20	-	20	60	-	40	-	100
303193152	Advanced Communication & Technical Writing	2.00	-	-	2	-	-	100	-	-	40	-	100
	Total	20.00	13	12	2								800

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50

**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.	
303111203	Control Theory	3.00	3	-	-	20	-	20	60	-	40	-	100
303111204	Control Theory Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303113201	Analog and Digital Electronics	4.00	4	-	-	20	-	20	60	-	40	-	100
303113202	Analog and Digital Electronics Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303113203	Electrical Machines	3.00	3	-	-	20	-	20	60	-	40	-	100
303113204	Electrical Machines Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303113205	Engineering Thermodynamics	3.00	3	-	-	20	-	20	60	-	40	-	100
303113206	Product Realization	1.00	-	2	-	-	50	-	-	-	-	25	50
303191201	Complex Variables and PDE	4.00	4	-	-	20	-	20	60	-	40	-	100
303193203	Professional Communication Skills	2.00	-	-	2	-	-	100	-	-	40	-	100
	Total	23.00	17	8	2								800

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 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.	
303113251	Engineering Materials and Metallurgy	3.00	3	-	-	20	-	20	60	-	40	-	100
303113252	Engineering Materials and Metallurgy Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303113253	Theory of Machine for Mechatronics	2.00	2	-	-	20	-	20	60	-	40	-	100
303113254	Theory of Machine for Mechatronics Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303113255	Basics of Signal & Systems	3.00	3	-	-	20	-	20	60	-	40	-	100
303113256	Basics of Signal & Systems Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303113257	Microcontrollers and Interfacing	3.00	3	-	-	20	-	20	60	-	40	-	100
303113258	Microcontrollers and Interfacing Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303191251	Probability, Statistics and Numerical Methods	4.00	4	-	-	20	-	20	60	-	40	-	100
303193252	Professional Grooming and Personality Development	1.00	-	-	1	-	-	100	-	-	40	-	100
Total		20.00	15	8	1								800

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50