



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.	
03602107	Applied Chemistry	3.00	3	-	-	20	-	20	60	-	40	-	100
03602108	Applied Chemistry Lab	1.00	-	2	-	-	50	-	-	-	-	20	50
03605101	Environmental Science	0.00	2	-	-	20	-	20	-	-	16	-	40
03605151	Engineering Mechanics	3.00	3	-	-	20	-	20	60	-	40	-	100
03605152	Engineering Mechanics Lab	1.00	-	2	-	-	50	-	-	-	-	20	50
03691101	Mathematics - I	3.00	2	-	1	20	-	20	60	-	40	-	100
03692153	Basic Physics	3.00	3	-	-	20	-	20	60	-	40	-	100
03692154	Basic Physics Lab	1.00	-	2	-	-	50	-	-	-	-	20	50
03693101	Communication Skills - I	1.00	1	-	-	20	-	20	60	-	40	-	100
	Total	16.00	14	6	1								690

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.	
03606101	Introduction to IT Systems	1.00	1	-	-	20	-	20	60	-	40	-	100
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
03609102	Engineering Graphics Lab	2.00	-	4	-	-	100	-	-	-	-	40	100
03609151	Fundamentals of Mechanical Engineering	3.00	2	-	1	20	-	20	60	-	40	-	100
03609154	Engineering Workshop Practice	2.00	-	4	-	-	100	-	-	-	-	40	100
03691151	Mathematics-II	4.00	3	-	1	20	-	20	60	-	40	-	100
03693151	Communication Skills - II	1.00	1	-	-	20	-	20	60	-	40	-	100
	Total	19.00	9	14	3								850

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
03633201	Analog Electronics	3.00	3	-	-	20	-	20	60	-	40	-	100
03633202	Analog Electronics Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03633203	Material Engineering	3.00	3	-	-	20	-	20	60	-	40	-	100
03633204	Material Engineering Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03633205	Digital Electronics	3.00	3	-	-	20	-	20	60	-	40	-	100
03633206	Digital Electronics Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03633207	Fundamentals of Programming	3.00	3	-	-	20	-	20	60	-	40	-	100
03633208	Fundamentals of Programming Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03634209	Measurements & Instrumentation	3.00	3	-	-	20	-	20	60	-	40	-	100
03634210	Measurements & Instrumentation Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03693201	Professional Communication and Critical Thinking	1.00	1	-	-	20	-	20	60	-	40	-	100
Total		22.00	17	10									950

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
03633251	Fundamentals of Robotics	3.00	3	-	-	20	-	20	60	-	40	-	100
03633252	Fundamentals of Robotics Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03633253	Hydraulic and Pneumatic Systems	3.00	3	-	-	20	-	20	60	-	40	-	100
03633254	Hydraulic and Pneumatic Systems Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03633255	Control Engineering	3.00	3	-	-	20	-	20	60	-	40	-	100
03633256	Control Engineering Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03633258	Minor Project	1.00	-	2	-	-	20	-	-	30	-	20	50
03634251	Manufacturing Process	3.00	3	-	-	20	-	20	60	-	40	-	100
03634252	Manufacturing Process Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03634257	Microprocessor and Microcontroller	3.00	3	-	-	20	-	20	60	-	40	-	100
03634258	Microprocessor and Microcontroller Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
	Total	21.00	17	12									840

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.	
03633304	PROJECT-I	4.00	-	4	-	-	60	-	-	40	-	40	100
03633306	SUMMER INTERSHIP	2.00	-	-	-	-	100	-	-	-	-	40	100
03633307	Robot Kinematics	3.00	3	-	-	20	-	20	60	-	40	-	100
03633308	Robot Kinematics Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03634303	Programmable Logic Controllers	3.00	3	-	-	20	-	20	60	-	40	-	100
03634304	Programmable Logic Controllers Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
	PEC 01-LAB (Compulsory Subjects :1)	1.00	-	2	-	-	20	-	-	30	-	-	50
	PEC 01 (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	PEC 02 (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	PEC 02-LAB (Compulsory Subjects :1)	1.00	-	2	-	-	20	-	-	30	-	-	50
	Total	22.00	12	12									800

Semester - 5 PEC 01

						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.	
03633331	Artificial Intelligence and Machine Learning	3.00	3	-	-	20	-	20	60	-	40	-	100
03634331	Computer Aided Design	3.00	3	-	-	20	-	20	60	-	40	-	100

**Semester - 5 PEC 01-LAB**

						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.	
03633332	Artificial Intelligence and Machine Learning Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03634332	Computer Aided Design Lab	1.00	-	2	-	-	20	-	-	30	-	20	50

Semester - 5 PEC 02

						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.	
03633335	Python Programming	3.00	3	-	-	20	-	20	60	-	40	-	100
03633337	Industrial Networking	3.00	3	-	-	20	-	20	60	-	40	-	100

Semester - 5 PEC 02-LAB

						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.	
03633336	Python Programming Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03633338	Industrial Networking Lab	1.00	-	2	-	-	20	-	-	30	-	20	50

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
03633351	Robot Dynamics	3.00	3	-	-	20	-	20	60	-	40	-	100
03633352	Robot Dynamics Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03633353	Signal Processing and Vision Systems	3.00	3	0	0	20	-	20	60	-	40	-	100
03633354	Signal Processing and Vision Systems Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03633356	MAJOR PROJECT-II	4.00	-	8	-	-	60	-	-	40	-	40	100
03633357	Internet of Things	3.00	3	-	-	20	-	20	60	-	40	-	100
03633358	Internet of Things Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
	PEC 03 (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	PEC 03-LAB (Compulsory Subjects :1)	1.00	-	2	-	-	20	-	-	30	-	-	50
	Total	20.00	14	16	0								740

Semester - 6 PEC 03

						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.	
03633383	Robotics System Design	3.00	3	-	-	20	-	20	60	-	40	-	100
03633385	Process Control	3.00	3	-	-	20	-	20	60	-	40	-	100
03634381	Computer Integrated Manufacturing	3.00	3	-	-	20	-	20	60	-	40	-	100



Semester - 6 PEC 03-LAB

						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.	
03633384	Robotics System Design Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03633386	Process Control Lab	1.00	-	2	-	-	20	-	-	30	-	20	50
03634382	Computer Integrated Manufacturing Lab	1.00	-	2	-	-	20	-	-	30	-	20	50

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