



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
303109101	Engineering Graphics	4.00	2	4	0	20	20	20	60	30	40	25	150
303191101	Mathematics-I	4.00	4	-	-	20	-	20	60	-	40	-	100
303192102	Engineering Physics-II	4.00	3	2	0	20	20	20	60	30	40	25	150
303193103	Communication Skills	2.00	-	-	2	-	-	100	-	-	40	-	100
Total		22.00	15	10	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 - 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.	
303104105	Environmental Science	0.00	1	0	0	-	-	50	-	-	20	-	50
303106151	Digital Electronics Circuits	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
303107153	Electronic Workshop	1.00	0	2	0	-	50	-	-	50	-	50	100
303109102	Elements of Mechanical Engineering	4.00	3	2	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	19.00	14	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 - 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.	
303106201	Fundamentals of Signals & Systems	2.00	2	-	-	20	-	20	60	-	40	-	100
303106202	Fundamentals of Signals & Systems Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303106203	Electrical Machines - I	3.00	3	-	-	20	-	20	60	-	40	-	100
303106204	Electrical Machines - I Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303106205	Electrical Circuit Analysis	3.00	3	-	-	20	-	20	60	-	40	-	100
303106206	Electrical Circuit Analysis Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303106209	Analog Electronics Circuits	3.00	3	-	-	20	-	20	60	-	40	-	100
303106210	Analog Electronics Circuits Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303106213	Product Realisation	1.00	-	2	-	-	20	-	-	30	-	25	50
303191203	Mathematics III	4.00	4	-	-	20	-	20	60	-	40	-	100
303193203	Professional Communication Skills	2.00	-	-	2	-	-	100	-	-	40	-	100
	Total	22.00	15	10	2								850

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.	
303106251	Control System Engineering	3.00	3	0	0	20	-	20	60	-	40	-	100
303106252	Control System Engineering Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106253	Electrical Machines-II	3.00	3	0	0	20	-	20	60	-	40	-	100
303106254	Electrical Machines-II Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106255	Power Electronics - I	3.00	3	0	0	20	-	20	60	-	40	-	100
303106256	Power Electronics - I Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106257	Electromagnetic	3.00	3	0	0	20	-	20	60	-	40	-	100
303106258	Electromagnetics Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106259	Power Plant Engineering	3.00	3	0	0	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



Semester - 5 Open Elective 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.	
303104311	Disaster Preparedness and Planning	2.00	2	0	0	20	-	20	60	-	40	-	100
303105303	Python Programming	2.00	2	0	0	20	-	20	60	-	40	-	100
303105304	Cyber Security	2.00	2	0	0	20	-	20	60	-	40	-	100
303105305	Internet of Things	2.00	2	0	0	20	-	20	60	-	40	-	100
303107346	Fundamentals of Communication Engineering	2.00	2	0	0	20	-	20	60	-	40	-	100

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.	
303106301	Microcontroller and Its Application	3.00	3	0	0	20	-	20	60	-	40	-	100
303106302	Microprocessor and Its Application Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106303	Electrical Measurements & Instrumentation	3.00	3	0	0	20	-	20	60	-	40	-	100
303106304	Electrical Measurements & Instrumentation Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106305	Power System - I	3.00	3	0	0	20	-	20	60	-	40	-	100
303106306	Power System - I Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106307	Power Electronics - II	3.00	3	0	0	20	-	20	60	-	40	-	100
303106308	Power Electronics - II Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106309	Summer Internship - I	2.00	0	0	0	-	100	-	-	-	-	50	100
303193304	Professionalism & Corporate Ethics	1.00	-	-	1	-	-	100	-	-	40	-	100



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.	
	Open Elective 01 (Compulsory Subjects :1)	2.00	2	0	0	40	-	-	60	-	-	-	100
	PEC 01-LAB (Compulsory Subjects :1)	1.00	0	2	0	-	20	-	-	30	-	-	50
	PEC 01 (Compulsory Subjects :1)	3.00	3	0	0	40	-	-	60	-	-	-	100
	Total	25.00	17	10	1								1050

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.	
303106331	High Voltage Engineering	3.00	3	0	0	20	-	20	60	-	40	-	100
303106333	Industrial Electrical Systems	3.00	3	0	0	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.	
303106332	High Voltage Engineering Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106334	Industrial Electrical Systems Lab	1.00	0	2	0	-	20	-	-	30	-	25	50

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



Semester - 6 Open Elective 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.	
303100351	Programme Management and Entrepreneurship	2.00	2	0	0	20	-	20	60	-	40	-	100
303100352	Life Sciences	2.00	2	0	0	20	-	20	60	-	40	-	100
303100353	Fundamentals of Management	2.00	2	0	0	20	-	20	60	-	40	-	100
303100354	Constitution of India	2.00	2	0	0	20	-	20	60	-	40	-	100
303100355	Engineering Economics	2.00	2	0	0	20	-	20	60	-	40	-	100
303105392	Cyber Law and Ethics	2.00	2	0	0	20	-	20	60	-	40	-	100

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.	
303106351	Power System-II	3.00	3	0	0	20	-	20	60	-	40	-	100
303106352	Power System-II Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106353	Industrial Safety	2.00	2	0	0	20	-	20	60	-	40	-	100
303106354	Minor Project	1.00	0	2	0	-	20	-	-	30	-	25	50
303106355	Industrial Machines	3.00	3	0	0	20	-	20	60	-	40	-	100
303106356	Industrial Machines Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303193353	Employability Skills	1.00	-	-	1	-	-	100	-	-	40	-	100
	Open Elective 02 (Compulsory Subjects :1)	2.00	2	0	0	40	-	-	60	-	-	-	100
	PEC 02 (Compulsory Subjects :1)	3.00	3	0	0	40	-	-	60	-	-	-	100



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.	
	PEC 02-LAB (Compulsory Subjects :1)	1.00	0	2	0	-	20	-	-	30	-	-	50
	PEC 03 (Compulsory Subjects :1)	3.00	3	0	0	40	-	-	60	-	-	-	100
	PEC 03-LAB (Compulsory Subjects :1)	1.00	0	2	0	-	20	-	-	30	-	-	50
	Total	22.00	16	10	1								950

Semester - 6 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.	
303106381	Electrical Machine Design	3.00	3	0	0	20	-	20	60	-	40	-	100
303106383	Electro Magnetic Waves	3.00	3	0	0	20	-	20	60	-	40	-	100

Semester - 6 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.	
303106382	Electrical Machine Design Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106384	Electro Magnetic Waves Lab	1.00	0	2	0	-	20	-	-	30	-	25	50



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.	
303106385	Power System Protection	3.00	3	0	0	20	-	20	60	-	40	-	100
303106387	HVDC Transmission System	3.00	3	0	0	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.	
303106386	Power System Protection Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106388	HVDC Transmission System Lab	1.00	0	2	0	-	20	-	-	30	-	25	50

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



Semester - 7

						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.	
303106401	Summer Internship - II	2.00	0	0	0	-	100	-	-	-	-	50	100
303106402	Project I	6.00	0	12	0	-	100	-	-	100	-	100	200
303106403	Industrial Automation	3.00	3	0	0	20	-	20	60	-	40	-	100
303106404	Industrial Automation Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
	PEC 04 (Compulsory Subjects :1)	3.00	3	0	0	40	-	-	60	-	-	-	100
	PEC 04-LAB (Compulsory Subjects :1)	1.00	0	2	0	-	20	-	-	30	-	-	50
	PEC 05 (Compulsory Subjects :1)	3.00	3	0	0	40	-	-	60	-	-	-	100
	PEC 05-LAB (Compulsory Subjects :1)	1.00	0	2	0	-	20	-	-	30	-	-	50
	Total	20.00	9	18	0								750

Semester - 7 PEC 04

						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.	
303106431	Electrical Energy Conservation & Audit	3.00	3	0	0	20	-	20	60	-	40	-	100
303106433	Power System Dynamics & Control	3.00	3	0	0	20	-	20	60	-	40	-	100
303106435	Line-commutated and Active PWM Rectifiers & Inverters	3.00	3	0	0	20	-	20	60	-	40	-	100
303106437	Electrical Drives	3.00	3	0	0	20	-	20	60	-	40	-	100



Semester - 7 PEC 04-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.	
303106432	Electrical Energy Conservation & Audit Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106434	Power System Dynamics & Control Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106436	Line-commutated and Active PWM Rectifiers & Inverters Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106438	Electrical Drives Lab	1.00	0	2	0	-	20	-	-	30	-	25	50

Semester - 7 PEC 05

						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.	
303106439	Power System Analysis	3.00	3	0	0	20	-	20	60	-	40	-	100
303106441	Computational Electromagnetics	3.00	3	0	0	20	-	20	60	-	40	-	100

Semester - 7 PEC 05-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.	
303106440	Power System Analysis Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106442	Computational Electromagnetics Lab	1.00	0	2	0	-	20	-	-	30	-	25	50

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



Semester - 8

						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.	
303106451	Electrical Installation, Maintenance & Testing	3.00	3	0	0	20	-	20	60	-	40	-	100
303106453	Power Quality & FACTs	3.00	3	0	0	20	-	20	60	-	40	-	100
303106454	Power Quality & FACTs Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106456	Project II	6.00	0	12	0	-	100	-	-	100	-	100	200
	PEC 06 (Compulsory Subjects :1)	3.00	3	0	0	40	-	-	60	-	-	-	100
	PEC 06-LAB (Compulsory Subjects :1)	1.00	0	2	0	-	20	-	-	30	-	-	50
	Total	17.00	9	16	0								600

Semester - 8 PEC 06

						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.	
303106481	Wind and Solar Energy Systems	3.00	3	0	0	20	-	20	60	-	40	-	100
303106483	Electrical Hybrid Vehicles	3.00	3	0	0	20	-	20	60	-	40	-	100
303106485	Advanced Electrical Drives	3.00	3	0	0	20	-	20	60	-	40	-	100
303106487	Digital Signal Processing	3.00	3	0	0	20	-	20	60	-	40	-	100
303106489	Advance Controller	3.00	3	0	0	20	-	20	60	-	40	-	100



Semester - 8 PEC 06-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.	
303106482	Wind and Solar Energy Systems Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106484	Electrical Hybrid Vehicles Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106486	Advanced Electrical Drives Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106488	Digital Signal Processing Lab	1.00	0	2	0	-	20	-	-	30	-	25	50
303106490	Advance Controller lab	1.00	0	2	0	-	20	-	-	30	-	25	50

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