



Semester - 1

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203106101	Basic Electrical Engineering	5	4	2	0	20	20	20	60	30	40	25	150
203108101	Information and Communication Technology	3	3	0	0	20	-	20	60	-	40	-	100
203109101	Engineering Graphics	4	2	4	0	20	20	20	60	30	40	25	150
203191101	Mathematics – I	5	3	0	2	20	-	20	60	-	40	-	100
203192104	Engineering Physics	4	3	2	0	20	20	20	60	30	40	25	150
203193101	Communication Skills - 1	2	0	0	2	-	-	100	0	-	40	-	100
	Total	23	15	8	4								750

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



Semester - 2

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203100101	Workshop	2	0	4	0	-	40	-	-	60	-	50	100
203104103	Environmental Science	2	2	0	0	20	-	20	60	-	40	-	100
203105101	Fundamentals of Programming	4	2	4	0	20	20	20	60	30	40	25	150
203107151	Basic Electronics	4	3	2	0	20	20	20	60	30	40	25	150
203109102	Elements of Mechanical Engineering	4	3	2	0	20	20	20	60	30	40	25	150
203191151	Mathematics-II	5	3	0	2	20	-	20	60	-	40	-	100
203193151	Communication Skills - 2	2	0	0	2	-	-	100	0	-	40	-	100
Total		23	13	12	4								850

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



Semester - 3

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203106201	Fundamentals of Signals & Systems	2	2	0	0	20	-	20	60	-	40	-	100
203106202	Fundamentals of Signals & Systems Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106203	Electrical Machines - I	3	3	0	0	20	-	20	60	-	40	-	100
203106204	Electrical Machines - I Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106205	Electrical Circuit Analysis	3	3	0	0	20	-	20	60	-	40	-	100
203106206	Electrical Circuit Analysis Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106207	Analog & Digital Electronics	4	4	0	0	20	-	20	60	-	40	-	100
203106208	Analog & Digital Electronics Lab	1	0	2	0	-	20	-	-	30	-	25	50
203191203	Mathematics III	5	3	0	2	20	-	20	60	-	40	-	100
203193201	Professional Communication Skills-1	2	1	0	1	-	-	100	0	-	40	-	100
	Total	23	16	8	3								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

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203106251	Control System Engineering	3	3	0	0	20	-	20	60	-	40	-	100
203106252	Control System Engineering Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106253	Electrical Machines-II	3	3	0	0	20	-	20	60	-	40	-	100
203106254	Electrical Machines-II Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106255	Power Electronics - I	3	3	0	0	20	-	20	60	-	40	-	100
203106256	Power Electronics - I Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106257	Electromagnetic	3	3	0	0	20	-	20	60	-	40	-	100
203106258	Electromagnetics Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106259	Power Plant Engineering	3	3	0	0	20	-	20	60	-	40	-	100
203106260	Electrical Software Lab	2	0	4	0	-	40	-	-	60	-	50	100
203193251	Professional Communication Skills-2	2	1	0	1	-	-	100	0	-	40	-	100
	Total	23	16	12	1								900

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.	
203101346	Basic Aircraft Science	2	2	0	0	20	-	20	60	-	40	-	100
203104346	Disaster Preparedness and Planning	2	2	0	0	20	-	20	60	-	40	-	100
203105346	Cyber Security	2	2	0	0	20	-	20	60	-	40	-	100
203107346	Fundamentals of Communication Engineering	2	2	0	0	20	-	20	60	-	40	-	100
203108346	Internet of Things	2	2	0	0	20	-	20	60	-	40	-	100
203109346	Renewable Energy Sources	2	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.	
203106301	Microprocessors	3	3	0	0	20	-	20	60	-	40	-	100
203106302	Microprocessors Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106303	Electrical Measurements & Instrumentation	3	3	0	0	20	-	20	60	-	40	-	100
203106304	Electrical Measurements & Instrumentation Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106305	Power System - I	3	3	0	0	20	-	20	60	-	40	-	100
203106306	Power System - I Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106307	Power Electronics - II	3	3	0	0	20	-	20	60	-	40	-	100
203106308	Power Electronics - II Lab	1	0	2	0	-	20	-	-	30	-	25	50



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.	
203193301	Programming Skills and Placement Essentials (All Branches Except CSE/IT/ICT)	2	1	0	1	-	-	100	0	-	40	-	100
	Open Elective 01 (Compulsory Subjects :1) -	2	2	0	0	-	-	-	-	-	-	-	100
	PEC 01-LAB (Compulsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	PEC 01 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	Total	24	18	10	1								950

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.	
203106331	High Voltage Engineering	3	3	0	0	20	-	20	60	-	40	-	100
203106333	Industrial Electrical Systems	3	3	0	0	20	-	20	60	-	40	-	100



Semester - 5 PEC 01-LAB

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203106332	High Voltage Engineering Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106334	Industrial Electrical Systems Lab	1	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.	
203100351	Life Science	2	2	0	0	60	-	40	0	0	40	0	100
203100352	Biology for Engineers	2	2	0	0	60	-	40	0	0	40	0	100
203100353	Engineering Geology	2	2	0	0	60	-	40	0	0	40	0	100
203100354	Landscape Planning and Design	2	2	0	0	60	-	40	0	0	40	0	100
203100355	Fundamentals of Management	2	2	0	0	60	-	40	0	0	40	0	100
203100356	Corporate Social Responsibility	2	2	0	0	60	-	40	0	0	40	0	100
203100357	Innovation and Entrepreneurship	2	2	0	0	60	-	40	0	0	40	0	100
203100358	Constitution of India	2	2	0	0	60	-	40	0	0	40	0	100
203100359	Cyber Law & Ethics	2	2	0	0	60	-	40	0	0	40	0	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.	
203106351	Power System-II	3	3	0	0	20	-	20	60	-	40	-	100
203106352	Power System-II Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106353	Arduino & PIC Controller	2	2	0	0	20	-	20	60	-	40	-	100
203106354	Arduino & PIC Controller Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106356	Electronics Design Laboratory	2	0	4	0	-	20	-	-	30	-	25	50



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.	
	Open Elective 02 (Compulsory Subjects :1) -	2	2	0	0	-	-	-	-	-	-	-	100
	Open Elective 03 (Compulsory Subjects :1) -	2	1	0	1	-	-	-	-	-	-	-	100
	PEC 02 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 02-LAB (Compulsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	PEC 03 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 03-LAB (Compulsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	Total	21	14	12	1								850

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.	
203106381	Transformer & DC Machine Design	3	3	0	0	20	-	20	60	-	40	-	100
203106383	Electro Magnetic Waves	3	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.	
203106382	Transformer & DC Machine Design Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106384	Electro Magnetic Waves Lab	1	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.	
203106385	Power System Protection	3	3	0	0	20	-	20	60	-	40	-	100
203106387	HVDC Transmission System	3	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.	
203106386	Power System Protection Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106388	HVDC Transmission System Lab	1	0	2	0	-	20	-	-	30	-	25	50



Semester - 6 Open Elective 03

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203193351	Advanced Programming and Placement Essentials	2	1	0	1	-	-	100	0	-	40	-	100

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



Semester - 7 Open Elective 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.	
203104344	Engineering Mechanics	3	3	0	0	20	-	20	60	-	40	-	100
203106446	Industrial Safety	3	3	0	0	20	-	20	60	-	40	-	100

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.	
203106401	Summer Internship	2	0	0	0	-	100	-	-	-	-	50	100
203106402	Project I	5	0	10	0	-	100	-	-	100	-	100	200
	Open Elective 04 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	Open Elective 05 (Compulsory Subjects :1) -	3	2	2	0	-	-	-	-	-	-	-	150
	PEC 04 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 04-LAB (Compulsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	PEC 05 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 05-LAB (Compulsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	Total	21	11	16	0								850



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.	
203106431	Electrical Energy Conservation & Audit	3	3	0	0	20	-	20	60	-	40	-	100
203106433	Power System Dynamics & Control	3	3	0	0	20	-	20	60	-	40	-	100
203106435	Line-commutated and Active PWM Rectifiers & Inverters	3	3	0	0	20	-	20	60	-	40	-	100
203106437	Electrical Drives	3	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.	
203106432	Electrical Energy Conservation & Audit Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106434	Power System Dynamics & Control Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106436	Line-commutated and Active PWM Rectifiers & Inverters Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106438	Electrical Drives Lab	1	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.	
203106439	AC Machine & Transmission Line Design	3	3	0	0	20	-	20	60	-	40	-	100



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.	
203106441	Computational Electromagnetics	3	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.	
203106440	AC Machine & Transmission Line Design Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106442	Computational Electromagnetics Lab	1	0	2	0	-	20	-	-	30	-	25	50

Semester - 7 Open Elective 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.	
203106448	Industrial Automation	3	2	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 - 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.	
203106451	Electrical Installation, Maintenance & Testing	3	3	0	-	20	-	20	60	-	40	-	100
203106452	Electrical Installation, Maintenance & Testing Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106453	Project II	5	0	10	0	-	10	-	-	100	-	100	200
	Open Elective 06 (Compsory Subjects :1) -	4	3	2	0	-	-	-	-	-	-	-	150
	PEC 06 (Compsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 06-LAB (Compsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	Total	17	9	16	0								650

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.	
203106481	Wind and Solar Energy Systems	3	3	0	0	20	-	20	60	-	40	-	100
203106483	Electrical Hybrid Vehicles	3	3	0	0	20	-	20	60	-	40	-	100
203106485	Advanced Electrical Drives	3	3	0	0	20	-	20	60	-	40	-	100
203106487	Digital Signal Processing	3	3	0	0	20	-	20	60	-	40	-	100
203106489	Advance Controller	3	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.	
203106482	Wind and Solar Energy Systems Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106484	Electrical Hybrid Vehicles Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106486	Advanced Electrical Drives Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106488	Digital Signal Processing Lab	1	0	2	0	-	20	-	-	30	-	25	50
203106490	Advance Controller lab	1	0	2	0	-	20	-	-	30	-	25	50

Semester - 8 Open Elective 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.	
203106496	Power Quality & FACTs	4	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