

STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN ELECTRICAL ENGINEERING

FIRST SEMESTER

SR. NO.	SUBJECTS	STUDY SCHEME		Credits	MARKS IN EVALUATION SCHEME								Total Marks of Int. & Ext.
		Periods/Week			INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
		Th	Pr		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
1.1	*English Language - I	3	2	4	25	25	50	100	3	50	3	150	200
1.2	*Applied Mathematics - I	5	-	5	50	-	50	100	3	-	-	100	150
1.3	*Applied Physics – I	4	2	5	25	25	50	100	3	50	3	150	200
1.4	*Applied Chemistry – I	3	2	4	25	25	50	100	3	50	3	150	200
1.5	*Basics of Information Technology	-	4	2	-	50	50	-	-	100	3	100	150
1.6	*Engineering Drawing – I	-	8	4	-	50	50	100	3	25 (Viva)	2	125	175
1.7	**General Workshop Practice – I	-	6	3	-	50	50	-	-	100 ⁺	3	100	150
#Student Centred Activities		-	1	-	-	25	25	-	-	-	-	-	25
Total		15	25	27	125	250	375	500	-	375	-	875	1250

* Common course with other diploma programmes

** Common with Computer Engineering and Electronics and Communication Engineering

SCA will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities etc.

+ Including 25 marks for viva-voce.

SECOND SEMESTER (ELECTRICAL ENGINEERING)

SR. NO.	SUBJECTS	STUDY SCHEME		Credits	MARKS IN EVALUATION SCHEME								Total Marks of Int. & Ext.
		Periods/Week			INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
		Th	Pr		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
2.1	*English Language - II	3	2	4	25	25	50	100	3	50	3	150	200
2.2	*Applied Mathematics – II	5	-	5	50	-	50	100	3	-	-	100	150
2.3	* Applied Physics-II	4	2	5	25	25	50	100	3	50	3	150	200
2.4	Electronics- I	3	2	4	25	25	50	100	3	50	3	150	200
2.5	*Environmental Studies	3	-	3	25	-	25	100	3	-	-	100	125
2.6	*Engineering Drawing-II	-	8	4	-	50	50	100	3	25 (Viva)	2	125	175
2.7	**General Workshop Practice – II	-	6	3	-	50	50	-	-	100 ⁺	3	100	150
#Student Centred Activities		-	2	-	-	25	25	-	-	-	-	-	25
Total		18	22	28	150	200	350	600	-	275	-	875	1225

* Common Course with other diploma programmes

** Common with Electronics and Communication Engineering

SCA will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities etc.

+ Including 25 marks for viva-voce.

THIRD SEMESTER (ELECTRICAL ENGINEERING)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
3.1*	Electrical and Electronics Engineering Materials	4	-	-	25	-	100	3	-	-	125
3.2*	Electrical Measurements and Measuring Instruments	4	-	2	25	25	100	3	50	3	200
3.3*	Electronics - I	4	-	2	25	25	100	3	50	3	200
3.4*	Electrical Engineering Design and Drawing – I	-	-	6	-	75	100	3	+50 (viva)	-	225
3.5*	Computer Programming and Applications	2	-	4	25	25	100	3	50	3	200
3.6*	Electrical Workshop Practice	-	-	6	-	100	-	-	50	3	150
	# Student Centred Activities	-	-	6	-	25	-	-	-	-	25
	Total	14	-	26	100	275	500	-	250	-	1125

* Common with diploma programme in Power Station Engineering

+ Includes 25 marks for Viva-voce

Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

FOURTH SEMESTER (ELECTRICAL ENGINEERING)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week		Theory	Practical	Written Paper		Practical			
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
4.1*	Electrical Machines-I	4	-	3	25	25	100	3	50	3	200
4.2*	Energy Sources and Management of Electrical Energy	5	-	-	25	-	100	3	-	-	125
4.3*	Electronics - II	4	-	3	25	25	100	3	50	3	200
4.4*	Electrical Engineering Design and Drawing - II	-	-	6	-	75	100	3	+50 (viva)	-	225
4.5*	Instrumentation	3	-	2	25	25	100	3	50	3	200
4.6*	Estimating and Costing in Electrical Engineering	4	-	-	25	-	100	3	-	-	125
# Student Centered Activities including Entrepreneurial Awareness Camp		-	-	6	25	-	-	-	-	-	25
Total		20	-	20	150	150	600	-	200	-	1100

* Common with diploma programme in Power Station Engineering

+ Includes 25 marks for Viva-voce

Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

Industrial Training - After examination of 4th Semester, the students shall go for training in a relevant industry/field organisation for a minimum period of 4 weeks and shall prepare a diary. It shall be evaluated during 5th semester by his/her teacher for 50 marks. The students shall also prepare a report at the end of training and shall present it in a seminar, which will be evaluated for another 50 marks. This evaluation will be done by HOD and lecturer incharge – training in the presence of one representative from training organizations.

FIFTH SEMESTER (ELECTRICAL ENGINEERING)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
Hrs/week		L	T	P							
Industrial Training					-	-	-	-	50	-	-
5.1*	Employability Skills - I	-	-	2	-	25	-	-	50	3	75
5.2	Electrical Machines – II	4	-	3	25	25	100	3	50	3	200
5.3	Electrical Power - I	4	-	-	25	-	100	3	-	-	125
5.4**	Industrial Electronics and Control of Drives	4	-	3	25	25	100	3	50	3	200
5.5	Digital Electronics and Microprocessors	5	-	3	25	25	100	3	50	3	200
5.6	Minor Project Work	-	-	3	-	50	-	-	50	3	100
5.7	Environmental Education	3	-	-	25	-	100	3	-	-	125
#	Student Centred Activities including Personality Development Camp	-	-	6	-	25	-	-	-	-	25
Total		20	-	20	125	225	500	-	300	-	1150

* Common with other diploma programmes

** Common with diploma programme in Power Station Engineering

Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

SIXTH SEMESTER (ELECTRICAL ENGINEERING)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
Hrs/week		L	T	P							
6.1**	Employability Skills - II				-	-	2	-	25	-	-
6.2*	Utilization of Electrical Energy	5	-	-	25	-	100	3	-	-	125
6.3	Electrical Power - II	4	-	2	25	25	100	3	50	3	200
6.4*	PLCs and Microcontrollers	4	-	4	25	25	100	3	50	3	200
6.5*	Elective	4	-	-	25	-	100	3	-	-	125
6.6*	Entrepreneurship Development and Management	3	-	-	25	-	100	3	-	-	125
6.7	Major Project Work	-	-	6	-	100	-	-	100	-	200
# Student Centred Activities		-	-	6	-	25	-	-	-	-	25
Total		20	-	20	125	200	500	-	250	-	1075

* Common with diploma programme in Power Station Engineering

** Common with other diploma programmes

Electives: To choose any one from the following:

6.5(a) Energy Management

6.5(b) Optical Fiber Communication

6.5(c) Installation and Maintenance of Electrical equipments

Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.