7. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN ELECTRICAL ENGINEERING

FIRST SEMESTER

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
		Hrs/week			Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
		L	T	P							
1.1*	Communication Skills -I	3	-	2	25	25	100	3	50	2	200
1.2*	Applied Mathematics-I	5	-	-	50	-	100	3	-	-	150
1.3*	Applied Physics – I	4	-	2	25	25	100	3	50	3	200
1.4*	Applied Chemistry – I	3	-	2	25	25	100	3	50	3	200
1.5*	Basics of Information Technology	-	-	4	-	50	-	-	100	3	150
1.6*	Engineering Drawing-I	-	-	6	-	50	100	3	25 (Viva)	2	175
1.7*	General Workshop Practice - I	-	-	6	-	50	-	-	+100	3	150
	# Student Centred Activities	-	-	3	-	25	-	-	-	-	25
	Total	15	-	25	125	250	500	-	375	-	1250

***** Common with other diploma programmes

+ 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.

SECOND SEMESTER (ELECTRICAL ENGINEERING)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
		Hrs/week			Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
		L	T	P							
2.1*	Communication Skills –II	3	-	2	25	25	100	3	50	2	200
2.2*	Applied Mathematics-II	5	-	-	50	-	100	3	-	-	150
2.3*	Applied Physics – II	4	-	2	25	25	100	3	50	3	200
2.4*	Applied Chemistry – II	3	-	2	25	25	100	3	50	3	200
2.5**	Fundamentals of Electrical Engineering	4	-	2	25	25	100	3	50	3	200
2.6*	Engineering Drawing - II	-	-	6	-	50	100	3	25 (Viva)	2	175
2.7*	General Workshop Practice-II	-	-	6	-	50	-	-	+100	3	150
# Student Centred Activities		-	-	1	-	25	-	-	-	-	25
Total		19	-	21	150	225	600	-	325	-	1300

***** Common with other diploma programmes

****** 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.

THIRD SEMESTER (ELECTRICAL ENGINEERING)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
		Hrs/week			Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
		L	T	P							
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)				
					Theory	Practical	Written Paper		Practical		
		Hrs/week			Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
		L	T	P							
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		
		Hrs/week L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
Industrial Training		-	-	-	-	50	-	-	50	-	100
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		
		Hrs/week			Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
		L	T	P							
6.1**	Employability Skills - II	-	-	2	-	25	-	-	50	3	75
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.