

7. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN POWER STATION ENGINEERING

FIRST SEMESTER

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	
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 (POWER STATION)

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	
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 Electrical 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 (POWER STATION)

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 - 1	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 Electrical 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 (POWER STATION)

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							
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		-	-	6	25	-	-	-	-	-	25
Total		20	-	20	150	150	600	-	200	-	1100

* Common with diploma programme in Electrical 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 (POWER STATION)

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							
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 Stations	5	-	-	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 Awareness Camp		-	-	5	-	25	-	-	-	-	25
Total		24	-	16	125	225	500	-	300	-	1150

* Common with diploma programme in Electrical Engineering

** Common with other diploma programmes

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 (POWER STATION)

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							
L	T				P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs
6.1**	Employability Skills - II	-	-	2	-	25	-	-	50	3	75
6.2+	Energy Management	4	-	-	25	-	100	3	-	-	125
6.3	Transmission and Distribution of Electrical Power	5	-	-	25	-	100	3	-	-	125
6.4	Electrical Protection	5	-	-	25	-	100	3	-	-	125
6.5*	PLCs and Microcontrollers	4	-	4	25	25	100	3	50	3	200
6.6**	Entrepreneurship Development and Management	3	-	-	25	-	100	3	-	-	125
6.7	Major Project Work	-	-	8	-	100	-	-	100	3	200
	# Student Centred Activities	-	-	5	-	25	-	-	-	-	25
	Total	21	-	19	125	175	500	-	200	-	1000

+ Common with Elective in 6th Semester of diploma programme in Electrical Engineering

* Common with diploma programme in Electrical Engineering

** Common with other diploma programmes

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.