

**7. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN ELECTRICAL ENGINEERING
(For Haryana State)**

FIRST SEMESTER (Electrical Engineering)

Sr. No	Subject	STUDY SCHEME Hrs/week L T P			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practical		
					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	4	1	-	50	-	100	3	-	-	150
1.3*	Applied Physics – I	4	-	2	25	25	100	3	50	3	200
1.4*	Applied Chemistry – I	2	-	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	-	-	4	-	25	-	-	-	-	25
	Total	13	1	26	125	250	500	-	375	-	1250

* **Common** with other Diploma programmes

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

+ Including 25 marks for Viva-voce

SECOND 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	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	Total Marks
2.1*	Communication Skills –II										
2.2*	Applied Mathematics-II	4	1	-	50	-	100	3	-	-	150
2.3*	Applied Physics – II	3	-	2	25	25	100	3	50	3	200
2.4*	Applied Chemistry – II	2	-	2	25	25	100	3	50	3	200
2.5*	General Engineering	3	-	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 Centered Activities including Ecology and Environmental Awareness Camp	-	-	4	-	25	-	-	-	-	25
Total		15	1	24	150	225	600	-	325	-	1300

* Common with other diploma programmes

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and 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	Fundamentals of Electrical Engineering	4	-	2	25	25	100	3	50	3	200
3.3	Basic Electronics	4	-	2	25	25	100	3	50	3	200
3.4	Electrical Engineering Design and Drawing – I	2	-	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 - I	-	-	6	-	100	-	-	50	3	150
	# Student Centred Activities	-	-	4	-	25	-	-	-	-	25
	Total	16	-	24	100	275	500	-	250	-	1125

* Common with other diploma programmes

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

+ Including 25 marks for Viva-voce

FOURTH 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	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	Total Marks
4.1	Electrical Machines-I										
4.2	Electrical Measurement and Measuring Instruments	3	-	2	25	25	100	3	50	3	200
4.3	Electronic Devices and Circuits	4	-	2	25	25	100	3	50	3	200
4.4	Electrical Engineering Design and Drawing - II	2	-	6	-	75	100	3	+50 (viva)	-	225
4.5	Electrical Workshop Practice - II	-	-	6	-	100	-	-	50	3	150
4.6	Estimating and Costing in Electrical Engineering	4	-	-	25	-	100	3	-	-	125
# Student Centered Activities including Entrepreneurial Awareness Camp		-	-	4	25	-	-	-	-	-	25
Total		17		23	125	250	500	-	250	-	1125

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

+ Including 25 marks for Viva-voce

FIFTH 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	
5.1	Electrical Machines-II	4	1	3	25	25	100	3	50	3	200
5.2	Power-I(Generation, Transmissions and Distribution of Electrical Power)	4	1	-	25	-	100	3	-	-	125
5.3	Industrial Electronics and Control of Drives	4	-	3	25	25	100	3	50	3	200
5.4	Elective –I	4	-	-	25	-	100	3	-	-	125
5.5	Digital Electronics and Microprocessors	4	-	3	25	25	100	3	50	3	200
5.6	Minor Project Work	-	-	3	-	100	-	-	100	3	200
# Student Centred Activities		-	-	4	-	25	-	-	-	-	25
Total		20	2	16	125	200	500	-	200		1075

- Elective-1** To choose any one from the following:
- Instrumentation
 - Non Conventional Energy Sources
 - PC Maintenance and Repair

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

SIXTH 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	
6.1	Utilisation of Electrical Energy	4	-	-	25	-	100	3	-	-	125
6.2	Installation and Maintenance of Electrical Equipment	5	-	3	25	25	100	3	50	3	200
6.3	Power-II (Power System Protection)	5	-	-	25	-	100	3	-	-	125
6.4	Elective – II	4	-	-	25	-	100	3	-	-	125
6.5*	Entrepreneurship Development and Management	3	-	-	25	-	100	3	-	-	125
6.6	Major Project Work	-	-	12	-	200	-	-	100	3	300
# Student Centred Activities		-	-	4	-	25	-	-	-	-	25
Total		21	-	19	125	250	-	150	-		1125

- Elective-II** To choose any one from the following:
- Energy Management
 - Optical Fiber Communication
 - Modern Electric Traction System

* Common with other diploma programmes

Student Centred Activities will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, field visits, NCC, NSS and cultural activities etc.

