

7. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN ELECTRONICS ENGINEERING (Spl. in Power Electronics)

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 - ELTX (PE)

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**	Basic Electrical Engineering	3	-	2	25	25	100	3	50	3	200
2.6**	Analog Electronics – I	4	-	2	25	25	100	3	50	3	200
2.7*	General Workshop Practice-II	-	-	6	-	50	-	-	+100	3	150
# Student Centred Activities		-	-	2	-	25	-	-	-	-	25
Total		22	-	18	175	200	600	-	350	-	1325

* Common with other diploma programmes

** Common with diploma programmes in Electronics and Instrumentation, Computer Engineering, Medical Electronics and Instrumentation and Control

+ 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 - ELTX (PE)

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 **	Analog Electronics – II	3	-	3	25	25	100	3	50	3	200
3.2 **	Computer Programming and Applications	2	-	4	25	25	100	3	50	3	200
3.3 *	Principles of Communication Engineering	3	-	2	25	25	100	3	50	3	200
3.4 **	Digital Electronics - I	4	-	2	25	25	100	3	50	3	200
3.5 **	Electronic Instruments and Measurement	3	-	3	25	25	100	3	50	3	200
3.6 *	Electrical Machines	3	-	3	25	25	100	3	50	3	200
# Student Centred Activities		-	-	5	-	25	-	-	-	-	25
Total		18		22	150	175	600	-	300	-	1225

* Common with other diploma programmes in Electronics and Communication, Electronics and Instrumentation

** Common with diploma programmes in Electronics and Communication, Instrumentation and Control,

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 - ELTX (PE)

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 *	Network Filters And Transmission Lines	3	-	3	25	25	100	3	50	3	200
4.2 *	Communication Systems	3	-	3	25	25	100	3	50	3	200
4.3 *	Instrumentation	3	-	2	25	25	100	3	50	3	200
4.4 *	Digital Electronics - II	3	-	3	25	25	100	3	50	3	200
4.5 *	Microprocessor and Peripheral Devices	4	-	2	25	25	100	3	50	3	200
4.6 *	Electronics Design and Fabrication Techniques	-	-	6	-	50	-	-	+50	3	100
# Student Centred Activities		-	-	5	-	25	-	-	-	-	25
Total		16		24	125	200	500	-	300	-	1125

* Common with diploma programme in Electronics and Communication 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 organization 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 organization.

FIFTH SEMESTER ELTX (PE)

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
	Industrial Training										
5.1 *	Employability Skills - I	-	-	2	-	25	-	-	50	3	75
5.2	Power Electronics-I	4	-	3	25	25	100	3	50	3	200
5.3	Microcontrollers and Applications	4	-	3	25	25	100	3	50	3	200
5.4 **	Optical Fiber Communication	3	-	3	25	25	100	3	50	3	200
5.5	Trouble Shooting of Power Electronics Equipment	-	-	3	-	50	-	-	100	3	150
5.6+	Basic Control Systems	4	-	3	25	25	100	3	50	3	200
5.7*	Environmental Education	3	-	-	25	-	100	3	-	-	125
	# Student Centred Activities including Personality Development Camp	-	-	5	-	25	-	-	-	-	25
	Total	18	-	22	125	250	500	-	400	-	1275

* Common with other diploma programmes

** Common with diploma programme in Electronics and Communication

+ Common with diploma programme in Electronics and Instrumentation

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 - ELTX (PE)

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 *	Employability Skills - II	-	-	2	-	25	-	-	50	3	75
6.2	Power Electronics -II	4	-	3	25	25	100	3	50	3	200
6.3	High Voltage DC Transmission	4	-	-	50	-	100	3	-	-	150
6.4	PLCs and Applications	4	-	3	25	25	100	3	50	3	200
6.5*	Entrepreneurship Development and Management	3	-	-	25	-	100	3	-	-	125
6.6	Major Project Work	-	-	12	-	100	-	-	100	3	200
# Student Centred Activities		-	-	5	-	25	-	-	-	-	25
Total		15	-	25	125	200	400	-	250	-	975

* 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.