# THIRD SEMESTER SCHEME FOR LATERAL ENTRY AND ITI PASSED STUDENTS (ELECTRICAL AND ELECTRONICS ENGINEERING)

	SUBJECTS	STUDY SCHEM E Periods/Week				MARKS IN EVALUATION SCHEME										
Sr. No.					Credits	INTERNAL ASSESSMEN T					- Marks of Internal & External					
		L	Т	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot			
3.1	*Applied Mathematics -III	5	-	-	4	20	-	20	50	2 ½	-	-	50	70		
3.2	Electrical and Electronics Instrumentation and Measurement	6	-	4	6	20	20	40	50	2 1/2	40	3	90	130		
3.3	Electrical and Electronics Engineering Materials	6	-	-	5	20	-	20	50	2 1/2	-	-	50	70		
3.4	Principles of Digital Electronics	5	-	4	5	20	20	40	50	2 1/2	40	3	90	130		
3.5	Electrical Machine - I	6	-	4	6	20	20	40	50	2 1/2	40	3	90	130		
3.6	*Environmental Studies	3	-	2	3	20	10	30	50	2 ½	20	3	70	100		
	#Student Centred Activities including - EnergyConservation Awareness		-	3	2	-	30	30	-	-	-	-	-	30		
	Tota l	31	-	17	31	120	100	220	300	-	140	-	440	660		

<sup>\*</sup> Common with other diploma programmes

<sup>#</sup> Student Centred Activities 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 and self study etc.

A. COMPULSORY SUBJECT OF I & II SEMESTER ELECTRICAL AND ELECTRONICS ENGINEERING TO BE TAUGHT IN III & IV Sem. TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS:

	SUBJECTS	STUDY SCHEME Periods/Week			G 11.		Total							
Sr. No.					Credits	INTERNAL ASSESSMENT					Marks of Internal			
110.		L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	&
														External
1.1	*Communication Skills-I	4	-	2	4	-	-	-	50	2 ½	20	3	70	70
1.2	*Applied Mathematics - I	5	-	-	4	-	-	-	50	2 ½	-	-	50	50
1.3	*Applied Physics – I	5	-	2	5	-	-	-	50	2 ½	20	3	70	70
1.4	*Applied Chemistry	5	-	2	5	-	-	-	50	2 1/2	20	3	70	70
		19		6	18	-	-	-	200		60		260	260

<sup>\*</sup> Common with other diploma programmes

<sup>#</sup> Student Centred Activities will comprise of co-curricular activities like extension lectures, self study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, disaster management and safety etc.

<sup>(\*)</sup> It is compulsory to appear & to pass in examination From III Semester To VI Semester, But credit/marks will not be included for division and percentage of obtained marks.

<sup>(\*)</sup> Four Semester (Two Years) of Extra Time will be given after diploma curriculum period (If Required) to pass the above paper (1.1 To 1.4 and 2.1 to 2.2) examination (As Per G. O. No. 2221/16-Pra. Shi.-3-2009 Dated 28-08-2009) & Revised G.O. No. 2704/16-Pra.Shi.-3-2013-46(8)/2002 Dated 09-01-2013 and B.T.E Order No. Pra.Shi.Pa/C.D.C./2022/872021 Dated 21.02.22

## FOURTH SEMESTER SCHEME FOR LATERAL ENTRY AND ITI PASSED STUDENTS (ELECTRICAL AND ELECTRONICS ENGINEERING)

	SUBJECT S		STUDY			MARKS IN EVALUATION SCHEME										
Sr. No.		SCHEM E Periods/Week			Credits	INTERNAL ASSESSMEN T					- Marks of Internal &External					
		L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot			
4.1	*Communication Skill- II	4	-	2	4	20	10	30	50	2 ½	20	3	70	100		
4.2	Industrial Electronics and Control	5	-	4	6	20	20	40	50	2 1/2	40	3	90	130		
4.3	Electrical Design, Drawing and Estimating-I	3	-	4	5	20	20	40	50	3	40	4	90	130		
4.4	Network Filters and Transmission Line	4	-	3	4	20	-	20	50	2 ½	-	-	50	70		
4.5	Transmission and Distribution of ElectricalPower	5	1	-	5	20	-	20	50	2 ½	-	-	50	70		
4.6	Principles of Communication Engineering	4	-	3	3	20	10	30	50	2 1/2	20	3	70	100		
4.7	Energy Conversion	3	-	2	1	-	20	20	-	-	30	3	30	50		
# Stud	# Student Centred Activities 1		1	1	-	30	30	-	-	-	-	-	30			
	Tota l		1	19	29	120	110	230	300	-	150	-	450	680		

Note: Industrial Training for 4 weeks after fourth semester during summer vacation.

<sup>#</sup> Student Centred Activities 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 and self study etc.

# B. COMPULSORY SUBJECT OF I & II SEMESTER ELECTRONICS AND COMMUNICATION ENGINEERING TO BE TAUGHT IN III & IV Sem. ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS:

	SUBJECTS	STUDY SCHEME Periods/Week			Credits		Total							
Sr.						INTERNAL ASSESSMENT				Marks of Internal				
No.		L	T	P	1	Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	&
														External
2.1	*Applied Mathematics - II	5	-	-	4	-	-	-	50	2 ½	-	-	50	50
2.2	*Applied Physics -II	5	-	2	5	-	-	-	50	2 1/2	20	3	70	70
	Total		-	2	9	-	-	-	100	-	20	-	120	120

- \* Common with other diploma programme
- # Student Centred Activities will comprise of co-curricular activities like extension lectures, self study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, disaster management and safety etc.

  Industrial training of 4 weeks duration to be organised after 4<sup>th</sup> semester exams
- (\*) It is compulsory to appear & to pass in examination From III Semester To VI Semester, But credit/marks will not be included for division and percentage of obtained marks.
- (\*) Four Semester (Two Years) of Extra Time will be given after diploma curriculum period (If Required) to pass the above paper (1.1 To 1.4 and 2.1 to 2.2) examination (As Per G. O. No. 2221/16-Pra. Shi.-3-2009 Dated 28-08-2009) & Revised G.O. No. 2704/16-Pra.Shi.-3-2013-46(8)/2002 Dated 09-01-2013 and B.T.E Order No. Pra.Shi.Pa/C.D.C./2022/872021 Dated 21.02.22

#### FIFTH SEMESTER SCHEME FOR LATERAL ENTRY AND ITI PASSED STUDENTS (ELECTRICAL AND ELECTRONICS ENGINEERING)

			STUDY					Total Marks of						
Sr. No.	SUBJECTS	SCHEME Periods/Week			Credits	INTERNAL ASSESSMENT					Internal & External			
		L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
-	Industrial Training	-	-	-	2	-			-	-	50	3	50	50
5.1	*Industrial Management and Entrepreneurship Development	5	-	-	4	20	-	20	50	2 ½	-	-	50	70
5.2	Switchgear and Protection	5	1	-	5	20	-	20	50	2 ½	-	-	50	70
5.3	Microprocessors and peripheral devices	6	-	6	7	20	35	55	50	2 ½	70	3	120	175
5.4	Electrical Machine – II	6	1	6	8	20	35	55	50	2 1/2	70	3	120	175
5.5	**Elective	6	-	-	5	20	-	20	50	2 ½	-	-	50	70
#Stude	ent Centred Activities(SCA)	-	-	6	2	-	30	30	-	-	-	-	-	30
	Total	28	2	18	33	100	100	200	250	-	190	-	440	640

<sup>\*</sup> Common with other diploma programmes

5.5.1 Renewable Sources of Energy 5.5.2 Communication Networks

5.5.3 Utilization of Electrical Energy 5.5.4 Electrical Traction

<sup>\*\*</sup> Elective (Any one out of the following)

<sup>#</sup> Student Centred Activities 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 and self study etc.

## SIXTH SEMESTER SCHEME FOR LATERAL ENTRY AND ITI PASSED STUDENTS (ELECTRICAL AND ELECTRONICS ENGINEERING)

		STUDY SCHEME Periods/Week					Total Marks of							
Sr. No.	SUBJECTS				Credits		INTERNA SSESSMI				Internal & External			
		L	T	P	1	Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
6.1	Installation, Maintenance and Repair of Electrical Equipment	6	-	6	7	20	35	55	50	2 ½	70	3	120	175
6.2	Electrical Design, Drawing and Estimating II	4	-	8	7	20	20	40	50	3	40	4	90	130
6.3	Control System	5	-	-	4	20	-	20	50	2.5	-	-	50	70
6.4	Application of Computer Software in Electrical Engineering	-	-	2	1	-	20	20	-	-	30	3	30	50
6.5	Universal Human Values	2	-	1	5	-	50	50	-	-	100	3	100	150
6.6	Project Work	-	-	12	5	-	50	50	-	-	100	3	100	150
#Stude	#Student Centred Activities		-	1	2	-	-	30	30	-	-	-	-	-
	Total		-	29	31	60	175	265	180	-	340	-	490	725

<sup>#</sup> Student Centred Activities 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 and self study etc.