STUDY AND EVALUATION SCHEME FOR LATERAL ENTRY AND ITI PASSED STUDENTS DIPLOMA PROGRAMME IN ELECTRICAL ENGINEERING(INDUSTRIAL CONTROL)

THIRD SEMESTER

		STUDY SCHEME Periods/Week			Credits	MARKS IN EVALUATION SCHEME										
Sr.	SUBJECTS					INTERNAL ASSESSMENT					Marks of Internal					
No.		L	Т	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	& External		
3.1	*Applied Mathematics -III	5	-	-	4	20	-	20	50	2 1/2	-	-	50	70		
3.2	Electrical 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 ½	-	-	50	70		
3.4	Digital Principles And Electronics	5	-	4	5	20	20	40	50	2 ½	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 Centered Activities including - Energy Conservation Awareness -		-	3	2		30	30	-	-	-	-	-	30			
	Total	31	-	17	31	120	100	220	300	-	140	-	440	660		

^{*} Common with other diploma programmes

[#] 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 ENGINEERING TO BE TAUGHT IN III & IV SEMESTER TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS:
 - I. WIREMAN II. ELECTRICIAN III. ELECTROPLATER IV. ELECTRICAL SECTOR

	SUBJECTS	STUDY SCHEME Periods/Week			Credits		Total							
Sr.						INTERNAL ASSESSMENT				Marks of Internal				
No.		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

^{*} Common with other diploma programmes

[#] 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.

^(*) 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

FOURTH SEMESTER ELECTRICAL ENGINEERING (INDUSTRIAL CONTROL)

			STUDY				Total							
Sr.	SUBJECTS	SCHEME Periods/Week			Credits		NTERN SESSM				Marks of Internal			
No.		L	Т	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	& External
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	1	4	6	20	20	40	50	2 1/2	40	3	90	130
4.3	Electrical Design, Drawing and Estimating-I	3	-	8	5	20	20	40	50	3	40	4	90	130
4.4	Control System& Process Application	5	-	-	5	20	-	20	50	2 ½	-	-	50	70
4.5	Transmission and Distribution of Electrical Power	6	1	-	5	20	-	20	50	2 ½	-	-	50	70
4.6	*Energy Conservation	3	-	2	3	20	10	30	50	2 1/2	20	3	70	100
4.7	Universal Human Values	2	-	1	1	-	20	20	-	-	30	3	30	50
# Stu	dent Centred Activities	-	-	1	1	-	30	30	-	-	-	-	-	30
	Total	28	2	18	30	120	110	230	300	-	150	-	450	680

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

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 ELECTRICAL ENGINEERING TO BE TAUGHT IN III & IV SEMESTER TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS:
 - I. WIREMAN II. ELECTRICIAN III. ELECTROPLATER IV. ELECTRICAL SECTOR

Sr. No.	SUBJECTS	STUDY SCHEME Periods/Week			Credits	II AS	Total Marks of Internal							
		L	T	P	•	Th	Pr	Tot	Th	Hrs	ESSMI Pr	Hrs	Tot	& External
2.1	*Applied Mathematics - II	5	-	-	4	-	-	-	50	2 1/2	-	-	50	50
2.2	*Applied Physics -II	5	-	2	5	-	-	-	50	2 ½	20	3	70	70
	Total	10	•	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 4th 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 ELECTRICAL ENGINEERING (INDUSTRIAL CONTROL)

	SUBJECTS		STUDY				Total							
Sr.		SCHEME Periods/Week			Credits		NTERN SESSM				Marks of Internal			
No.		L	Т	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	& External
-	Industrial Training	-	-	-	2	_			-	-	50	3	50	50
5.1	*Industrial Management and Entrepreneurship Development	5	-	-	4	20	-	20	50	2 1/2	-	-	50	70
5.2	Switchgear and Protection	5	1	-	5	20	-	20	50	2 1/2	-	-	50	70
5.3	PLC, Microcontroller and SCADA	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	INDUSTRIAL CONTROL	6	-	4	7	20	30	50	50	2 ½	50	3	100	150
#Stu	dent Centred Activities(SCA)	-	-	2	2	-	30	30	_	-	-	-	-	30
	Total		2	18	35	100	130	230	250	-	240	-	490	690

^{*} Common with other diploma programmes

[#] 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 ELECTRICAL ENGINEERING (INDUSTRIAL CONTROL)

	SUBJECTS	STUDY SCHEME Periods/Week				MARKS IN EVALUATION SCHEME										
Sr.					Credits	INTERNAL ASSESSMENT					Marks of Internal					
No.		L	Т	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	& External		
6.1	Installation, Maintenance and Repair of Electrical Equipment	6	-	6	7	20	35	55	50	2 ½	70	3	120	175		
6.2	MICROPROCESSORS DEVELOPMENT SYSTEM	6	-	4	7	20	20	40	50	3	40	4	90	130		
6.3	Utilization of Electrical Energy	5	-	-	4	20	-	20	50	2.5	-	-	50	70		
6.4	Application of Computer Software in Electrical Engineering	-	-	6	2	-	20	20	-	-	30	3	30	50		
6.5	Project Work	-	-	12	5	-	50	50	-	-	100	3	100	150		
#Stud	#Student Centred Activities		-	4	2	-	30	30	-	-	-	-	-	30		
	Total		_	32	27	60	155	215	150	-	240	-	390	605		

[#] 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.