

STUDY SCHEME FOR THIRD SEMESTER LATERAL AND ITI PASSED STUDENTS (COMPUTER SCIENCE AND ENGINEERING)

Sr. No.	SUBJECTS	STUDY SCHEME			Credits	MARKS IN EVALUATION SCHEME								Total Marks of Internal & External
		Periods/Week				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
		L	T	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	Internet and Web Technology	4	-	4	5	20	30	50	50	2 ½	50	3	100	150
3.3	*Environmental Studies	3	-	2	3	20	10	30	50	2 ½	20	3	70	100
3.4	Data Communication and Computer Networks	5	-	4	6	20	30	50	50	2 ½	50	3	100	150
3.5	Data Structure Using C	5	-	6	6	20	30	50	50	2 ½	50	3	100	150
3.6	**Digital Electronics	4	-	4	5	20	30	50	50	2 ½	50	3	100	150
#Student Centred Activities		-	-	2	1		30	30	-	-	-	-	-	30
Total		26	-	22	30	120	160	280	300	-	220	-	520	800

* Common course with other diploma programmes

** Common course with Electronics Engineering

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 Semester COMPUTER SCIENCE AND ENGINEERING TO BE TAUGHT IN III Semester TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS :

Sr. No.	SUBJECTS	STUDY SCHEME			Credits	MARKS IN EVALUATION SCHEME					Total Marks of Internal & External		
		Periods/Week				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT				
		<u>L</u>	<u>T</u>	<u>P</u>		<u>th</u>	Pr	Tot	Th	Hrs		Pr	Hrs
1.1	*Communication Skills-I	<u>4</u>	-	2	<u>4</u>	-	-	50	2 ½	20	3	70	70
1.2	*Applied Mathematics - I	<u>5</u>	-	-	<u>4</u>		-	50	2 ½	-	-	50	50
1.3	*Applied Physics – I	<u>5</u>	-	2	<u>5</u>	-	-	50	2 ½	20	3	70	70
1.4	*Applied Chemistry	<u>5</u>	-	2	<u>5</u>	-	-	50	2 ½	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 LATERAL AND ITI PASSED STUDENTS (COMPUTER SCIENCE AND ENGINEERING)

Sr. No.	SUBJECTS	STUDY SCHEME			Credits	MARKS IN EVALUATION SCHEME									Total Marks of Internal & External
		Periods/Week				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT						
		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	Database Management System	5	-	4	6	20	30	50	50	2 ½	50	3	100	150	
4.3	Object Oriented Programming Using Java	4	-	6	6	20	30	50	50	2 ½	50	3	100	150	
4.4	Operating Systems	4	-	4	5	20	30	50	50	2 ½	50	3	100	150	
4.5	E-Commerce and Digital Marketing	2	-	4	3	20	30	50	50	2 ½	50	3	100	150	
4.6	*Energy Conservation	3	-	2	3	20	10	30	50	2 ½	20	3	70	100	
4.7	Universal Human Values	2	-	1	1		20	20	-	-	30	3	30	50	
# Student Centred Activities		-	-	1	1	-	30	30	-	-	-	-	-	30	
Total		24	-	24	29	120	190	310	300	-	270	-	570	880	

* Common course with other diploma Programmes

- **4 weeks industrial training will be organised after 4th semester**

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 Semester COMPUTER SCIENCE AND ENGINEERING TO BE TAUGHT IN IV Semester TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS :

Sr. No.	SUBJECTS	STUDY SCHEME			Credits	MARKS IN EVALUATION SCHEME							Total Marks of Internal & External
		Periods/Week				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT				
		<u>L</u>	T	P		<u>h</u>	Pr	Tot	Th	Hrs	Pr	Hrs	
2.1	*Applied Mathematics - II	<u>5</u>	-	-	<u>4</u>	-	-	50	2 ½	-	-	50	50
2.2	*Applied Physics -II	<u>5</u>	-	2	<u>5</u>	-	-	50	2 ½	20	3	70	70
Total		<u>10</u>	-	2	<u>9</u>	-	-	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 LATERAL AND ITI PASSED STUDENTS (COMPUTER SCIENCE AND ENGINEERING)

Sr. No.	SUBJECTS	STUDY SCHEME			Credits	MARKS IN EVALUATION SCHEME									Total Marks of Internal & External
		Periods/Week				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT						
		L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot		
-	Industrial Training	-	-	-	2	-	-	-	-	-	50	3	50	50	
5.1	Software Engineering	4	-	2	4	20	30	50	50	2 ½	50	3	100	150	
5.2	Web Development using PHP	4	-	6	6	20	30	50	50	2 ½	50	3	100	150	
5.3	Computer Programming using Python	4	-	4	5	20	30	50	50	2 ½	50	3	100	150	
5.4	Computer Architecture and Hardware Maintenance	4	-	4	5	20	30	50	50	2 ½	50	3	100	150	
5.5	Internet of Things	4	-	4	5	20	30	50	50	2 ½	50	3	100	150	
5.6	Minor Project Work	-	-	6	3	-	60	60	-	-	60	-	60	120	
#Student Centred Activities		-	-	2	1	-	30	30	-	-	-	-	-	30	
Total		20	-	28	31	100	240	340	250	-	360	-	610	950	

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 LATERAL AND ITI PASSED STUDENTS (COMPUTER SCIENCE AND ENGINEERING)

Sr. No.	SUBJECTS	STUDY SCHEME			Credits	MARKS IN EVALUATION SCHEME								Total Marks of Internal & External
		Periods/Week				INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
		L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
6.1	Development of Android Applications	6	-	6	7	20	30	50	50	2 ½	50	-	100	150
6.2	Cloud Computing	4	-	4	5	20	30	50	50	2 ½	50	-	100	150
6.3	*Industrial Management and Entrepreneurship Development	5	-	-	4	20	-	20	50	2 ½	-	-	50	70
6.4	**Elective:	6	-	6	7	20	30	50	50	2 ½	50	-	100	150
6.5	Project	-	-	8	3	-	50	50	-	-	100	4	100	150
#Student Centred Activities		-	-	3	1	-	30	30	-	-	-	-	-	30
Total		21	-	27	27	80	170	250	200	-	250	-	450	700

* Common Course with other diploma programmes

** Elective :- Any one of the following:

6.4.1 Advanced Java

6.4.2 Dot Net Technologies

6.4.3 Data Science and Machine Learning

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.