STUDY SCHEME FOR THIRD SEMESTER LATERAL AND ITI PASSED STUDENTS

THIRD SEMESTER (INFORMATION TECHNOLOGY)

Sr. No.	SUBJECTS	Course Type & Category	STUDY SCHEME Periods/Week			Credits(C) (L+T)+P = C	MARKS IN EVALUATION SCHEME								Total Marks of Internal & External
							INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
			L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
3.1	Operating Systems	Prog Core (Theory)	3	-	-	3+0=3	40	-	**40**	60	03	-		**60**	**100**
3.2	Data base Management System	Prog Core (Theory)	3	-	-	3+0=3	40	-	**40**	60	03	-		**60**	**100**
3.3	Software Engineering	Prog Core (Practicum)	3	-	2	3+1=4	40	-	**40**	60	03	-		**60**	**100**
3.4	Web Technologies	Prog Core (Practicum)	1	-	4	1+2=3	-	60	**60**	-	-	40	03	**40**	**100**
3.5	Operating Systems (Lab)	Prog Core (Practical)	-	-	2	0+1=1	-	60	**60**	-	-	40	03	**40**	**100**
3.6	Data base Management System (Lab)	Prog Core (Practical)	-	-	4	0+2=2	-	60	**60**	-	-	40	03	**40**	**100**
3.7	Computer Programming Using C	Prog Core (Practicum)	1	-	4	1+2=3	-	60	**60**	-	-	40	03	**40**	**100**
3.8	*Minor Project	-	-	-	-	2	-	50	**50**	-	-	-	-	**-**	**50**
	# Student Centred Activities (SCA)		-	-	9	-	-	50	**50**	-	-	-	-	**-**	**50**
	TOTAL		**11**	**-**	**25**	**21**	**120**	**340**	**460**	**180**	**-**	**160**	**-**	**340**	**800**

*Lateral entry students shall undertake a Minor project and deliver a presentation on the same. This project will serve as an equivalent to Summer Internship-I for the purpose of earning the associated credits and marks..

Student Centered 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, library, Cultural Activities and self-study etc.

1) Each period will be 60 minutes duration.
2) Each session will be of 16 weeks.
3) Effective teaching will be at least 14 weeks per session.

A. COMPULSORY SUBJECT OF I-SEMESTER <u>INFORMATION TECHNOLOGY</u> TO BE TAUGHT IN <u>III SEMESTER</u> TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS :

Sr. No.	SUBJECTS	STUDY SCHEME Periods/Week			Credits	MARKS IN EVALUATION SCHEME INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					Total Marks of Internal & External
		L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
1.1	*Mathematics-I	2	1	-	3+0=3	40	-	**40**	60	3	-	-	**60**	100
1.2	*AppliedPhysics-I	3	-	2	3+1=4	40	60	**100**	60	3	40	3	**100**	200
1.3	*AppliedChemistry	3	-	2	3+1=4	40	60	**100**	60	3	40	3	**100**	200
1.4	*CommunicationSkillsin English	3	-	2	3+1=4	40	60	**100**	60	3	40	3	**100**	200
	TOTAL	**11**	**1**	**6**	**15**	**160**	**180**	**340**	**240**		**120**		**360**	**700**

(*) 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 (INFORMATION TECHNOLOGY)

Sr.No.	SUBJECTS	Course Type & Category	STUDY SCHEME Periods/Week			Credits(C) (L+T)+P = C	MARKS IN EVALUATION SCHEME								Total Marks of Internal &External
							INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
			L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
4.1	Data Structures using C	Prog. Core (Theory)	3	-	-	3+0=3	40	-	**40**	60	03	-	-	**60**	**100**
4.2	Computer Networks	Prog Core (Practicum)	3	-	2	3+1=4	40	-	**40**	60	03	-	-	**60**	**100**
4.3	Introduction to e-Governance	Prog Core (Theory)	2	-	-	2+0=2	40	-	**40**	60	03	-	-	**60**	**100**
4.4	Program Elective -1	Prog Elective (Theory)	3	-	-	3+0=3	40	-	**40**	60	03	-	-	**60**	**100**
4.5	(Q) Open Elective -1	Open Elective (Theory)	2	-	-	2	50	-	**-**	-	-	-	-	**-**	**-**
	*Advance Skill Development	Certification Course					-	-	**-**	-	-	-	-	**-**	**-**
4.6	Data Structures using C (Lab)	Prog Core (Practical)	-	-	4	0+2=2	-	60	**60**	-	-	40	03	**40**	**100**
4.7	Scripting Languages (Python)	Prog Core (Practicum)	1	-	4	1+2=3	-	60	**60**	-	-	40	03	**40**	**100**
4.8	(Q) Essence of Indian Knowledge and Tradition	Audit Course	2	-	-	-	50	-	**-**	-	-	-	-	-	**-**
	Student Centred Activities (SCA)		-	-	10	-	-	50	**50**	-	-	-	-	-	**50**
	TOTAL		**16**	**-**	**20**	**19**	**160**	**170**	**330**	**240**		**80**		**320**	**650**

Note -(Q-OE) - Qualifying Open Elective - It is compulsory to appear & to pass in examination and 02 Credit will be allotted, But marks will not be include in obtained marks.

(Q-AC) -Qualifying Audit Course-It is compulsory to appear & to pass in examination, But marks will not be included for division and percentage of obtained marks.

* Advance skill development mention at **4.5** in the table provide the scope of selecting the course as per choice from the elective list provided in the syllabus conducted by various agency of repute of duration not less than 20 Hrs (Offline/Online).

B. COMPULSORY SUBJECT OF II- SEMESTER <u>INFORMATION TECHNOLOGY</u> TO BE TAUGHT IN <u>IV SEMESTER</u> TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS :

Sr. No.	SUBJECTS	STUDY SCHEME Periods/Week			Credits	MARKS IN EVALUATION SCHEME								Total Marks of Internal & External
						INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
		L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
2.1	*Mathematics-II	3	1	-	4+0=4	40	-	**40**	60	3	-	-	**60**	100
2.2	*AppliedPhysics-II	3	-	2	3+1=4	40	60	**100**	60	3	40	3	**100**	200
	TOTAL	**6**	**1**	**2**	**8**	**80**	**60**	**140**	**120**	**-**	**40**	**-**	**160**	**300**

(*) 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) 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

LIST OF PROGRAM ELECTIVE COURSES (PE-1)

Sr No	Course Title	L	T	P	C
1	Internet of Things	3	-	-	3
2	Fundamentals of Artificial Intelligence	3	-	-	3

LIST OF OPEN ELECTIVE COURSES(OE-1)

Sr No	Course Title	L	T	P	C
1	Project Management	2	-	-	2
2	Industrial Robotics	2	-	-	2
3	Industrial Automation And Manufacturing Execution System (Tata)	2	-	-	2

OR

OPEN ELECTIVE-1

Sr.No.	Course Name
1.	Product Design And Development (Course Conducted By Tata/Polytechnic)
2.	Fundamentals Of Innovation And Design Thinking (Course Conducted By Tata/Polytechnic)
3.	Course Conducted By Infosys Pringboard
4.	Course Conducted By Tcs Ion
5.	Course Conducted By Nasscom - Futureskills
6.	Course Conducted By Nptel
7.	Moocs Through Swayam
8.	Conducted By Aicte-Elis And Centrally Funded Technical Institutes
9.	Conducted By C-Dac
10.	Conducted By Certifications Conducted B Y The Institute Of National Importance (Iit,Nit,Iiit Etc.)
11.	Conducted By Isro E-Learning
12.	Conducted By Other Relevant Government, International/National Platforms Of Repute
13.	Conducted By NEILIT