

STUDY SCHEME FOR THIRD SEMESTER LATERAL AND ITI PASSED STUDENTS

THIRD SEMESTER (COMPUTER SCIENCE AND ENGINEERING)

Sr. No.	SUBJECTS	Category & Course Type	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	Computer Network	Prog Core (Practicum)	2	-	4	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)			-	-	8	-	-	50	50	-	-	-	-	-	50		
TOTAL			10	-	26	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..

StudentCenteredActivitieswillcompriseofco-curricularactivitieslikeextensionlectures,games,hobbyclubse.g.photographyetc., seminars,declamationcontests,educationalfieldvisits,N.C.C.,NSS, library, CulturalActivitiesandself-studyetc.

- 1) Eachperiodwillbe60minutesduration.
- 2) Eachsessionwillbeof16weeks.
- 3) Effectiveteachingwillbeatleast14weeks per session.

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						
		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 2.1To 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 (COMPUTER SCIENCE AND ENGINEERING)

Sr.No.	SUBJECTS	Category & Course Type	STUDY SCHEME				Credits(C) (L+T)+P = C	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	Data Structures using C	Program Core (Theory)	3	-	-	3+0=3	40	-	40	60	03	-	-	60	100	
4.2	Software Engineering	Program Core (Practicum)	2	-	4	3+1=4	40	-	40	60	03	-	-	60	100	
4.3	Introduction to E-Governance	Program Core (Theory)	2	-	-	2+0=2	40	-	40	60	03	-	-	60	100	
4.4	Program Elective -1	Program Elective (Theory)	3	-	-	3+0=3	40	-	40	60	03	-	-	60	100	
4.5	(Q) Open Elective -1 OR	Open Elective (Theory)	2	-	-	2	50*	-	-	-	-	-	-	-	-	
	*Advance Skill Development	Open Elective Certification Course	-	-	-		-	-	-	-	-	-	-	-	-	
4.6	Data Structures using C	Program Core (Practical)	-	-	4	0+2=2	-	60	60	-	-	40	03	40	100	
4.7	Scripting Languages (Python)	Program Core (Practicum)	1	-	4	1+2=3	-	60	60	-	-	40	03	40	100	
4.8	(Q) Essence of Indian Knowledge and Tradition	Audit Courses (Qualifying)	4	-	-	-	50*	-	-	-	-	-	-	-	-	
Student Centred Activities (SCA)			-	-	7	-	-	50	50	-	-	-	-	-	50	
TOTAL			17	-	19	19	160	170	330	240	-	80	-	320	650	

Note -(Q) - 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:-

To fulfill the requirements for Advanced Skill Development, a minimum of 20 hours of skill certification is necessary. This certification must be obtained from a recognized national or international agency or institute. The assessment and certification process will be conducted by the respective agency or institute. Students must present their certificate to earn 02 credits for this subject.

** SUMMER INTERNSHIP (4-6 WEEKS) duration to be organized after fourth semester exam. Evaluation will be in fifth semester.

StudentCenteredActivitieswillcompriseofco-curricularactivitieslikeextensionlectures,games,hobbyclubse.g.photographyetc., seminars, declamationcontests,educationalfieldvisits,N.C.C.,NSS, library, CulturalActivitiesandself-studyetc. .

B. COMPULSORY SUBJECT OF II- 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						
						L	T	P	Th	Pr	Tot	Th	Hrs	Pr	
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 2.1To 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

LIST OF PROGRAM ELECTIVE COURSES (PE-1)

Sr No	Course Title	L	T	P	C
1	Computer System Organization	3	-	-	3
2	FOSS (Free and Open Source Software)	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

LIST OF OPEN ELECTIVE COURSES(OE-2)

Sr No	Course Title	L	T	P	C
1	Product Design	2	-	-	2
2	Engineering Economics & Accountancy	2	-	-	2
3	Artificial Intelligence and Machine Learning (TATA)	2	-	-	2

OR

OPEN ELECTIVE-1

SR.NO.	CERTIFICATE COURSES
1.	COURSES CONDUCTED BY CENTRE OF EXCELLENCE (ESTABLISHED BY THIRD PARTY AS: - TATA TECHNOLOGIES. etc)
2.	COURSES CONDUCTED BY INFOSYS PRINGBOARD
3.	COURSES CONDUCTED BY TCS ION
4.	COURSES CONDUCTED BY OTHER RELEVANT GOVERNMENT, INTERNATIONAL/NATIONAL ORGANIZATION OR PLATFORMS OF REPUTE
5.	COURSES CONDUCTED BY AICTE-ELIS AND CENTRALLY FUNDED TECHNICAL INSTITUTES
6.	COURSES CONDUCTED BY C-DAC
7.	COURSES CONDUCTED BY NEILIT