

STUDY AND EVALUATION SCHEME FOR LATERAL AND ITI PASSED STUDENTS

THIRD SEMESTER ELECTRONICS ENGINEERING (Microelectronics)

Sr. No.	SUBJECTS	COURSE TYPE & CATEGORY	STUDY SCHEME Periods/Week			Credits	MARKS IN EVALUATION SCHEME									Total Marks of Internal & External
			L	T	P		INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT						
							Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot		
3.1	ELECTRONIC DEVICES AND CIRCUITS	PROGRAM CORE (THEORY)	03	-	-	3	40	-	40	60	3	-	-	60	100	
3.2	DIGITAL ELECTRONICS	PROGRAM CORE (THEORY)	03	-	-	3	40	-	40	60	3	-	-	60	100	
3.3	LINEAR INTEGRATED CIRCUIT	PROGRAM CORE (PRACTICUM)	02	-	02	3	40	-	40	60	3	-	-	60	100	
3.4	ELECTRIC CIRCUIT AND NETWORK	PROGRAM CORE (PRACTICUM)	02	-	02	3	-	60	60	-	-	40	3	40	100	
3.5	ELECTRONIC DEVICES AND CIRCUITS (LAB)	PROGRAM CORE (PRACTICAL)	-	-	04	2	-	60	60	-	-	40	3	40	100	
3.6	DIGITAL ELECTRONICS (LAB)	PROGRAM CORE (PRACTICAL)	-	-	04	2	-	60	60	-	-	40	3	40	100	
3.7	(Q) OPEN ELECTIVE-1 OR	OPEN ELECTIVE (THEORY)	02	-	-	2	50	-	50	-	-	-	-	-	N/A	
	*ADVANCE SKILL DEVELOPMENT	OPEN ELECTIVE (Certification Course)					-	-	-	-	-	-	-	N/A		
3.8	**MINOR PROJECT	-	-	-	-	2	-	50	50	-	-	-	-	-	50	
#Student Centered Activities		-	-	-	12	-	-	50	50	-	-	-	-	-	50	
TOTAL		-	12	-	24	20	120	280	400	180	-	120	-	300	700	

NOTE:- (Q) It is compulsory to appear and to pass the examination, but marks will not be included for percentage and division of obtained marks.

* Advance skill development mention at 3.7 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).

**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 club, e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, library, Cultural Activities and self-study etc.

A. COMPULSORY SUBJECT OF I-SEMESTER ELECTRONICS ENGINEERING (Microelectronics) TO BE TAUGHT IN III SEMESTER TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS:

1. MECHANIC (RADIO & T.V.) 2. MECHANIC (CONSUMER ELECTRONICS) 3. INSTRUMENT MECHANIC 4. ELECTRONICS MECHANIC 5. INFORMATION TECHNOLOGY & ELECTRONIC ENGINEERING 6. ELECTRONICS SECTOR 7. MECHANICS TECHNOLOGY & ELECTRONIC SYSTEM MAINTENANCE

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 2.1 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

Sr. No.	SUBJECTS	COURSE TYPE & CATEGORY	STUDY SCHEME Periods/Week			Credits	MARKS IN EVALUATION SCHEME									Total Marks of Internal & External
			L	T	P		INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT						
							Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot		
4.1	MICROPROCESSOR AND ITS APPLICATIONS	PROGRAM CORE (THEORY)	03	-	-	3	40	-	40	60	3	-	-	60	100	
4.2	PRINCIPLES OF ELECTRONIC COMMUNICATION	PROGRAM CORE (THEORY)	03	-	-	3	40	-	40	60	3	-	-	60	100	
4.3	BASICS OF VLSI DESIGN	PROGRAM CORE (PRACTICUM)	02	-	02	3	40	-	40	60	3	-	-	60	100	
4.4	PROGRAMMING IN C	PROGRAM CORE (PRACTICUM)	01	-	04	3	-	60	60	-	-	40	3	40	100	
4.5	MICROPROCESSOR AND ITS APPLICATIONS	PROGRAM CORE (PRACTICAL)	-	-	06	3	-	60	60	-	-	40	3	40	100	
4.6	PRINCIPLES OF ELECTRONIC COMMUNICATION	PROGRAM CORE (PRACTICAL)	-	-	06	3	-	60	60	-	-	40	3	40	100	
4.7	(Q) OPEN ELECTIVE-2 OR	OPEN ELECTIVE (THEORY)	02	-	-	2	50	-	50	-	-	-	-	-	N/A	
	*ADVANCE SKILL DEVELOPMENT	OPEN ELECTIVE (Certification Course)					-	-	-	-	-	-	-	N/A		
4.8	(Q) ESSENCE OF INDIAN KNOWLEDGE AND TRADITION	AUDIT COURSE	02	-	-	-	50	-	50	-	-	-	-	-	N/A	
#Student Centered Activities		-	-	-	05	-	-	50	50	-	-	-	-	-	50	
TOTAL		-	13	-	23	20	120	230	350	180	-	120	-	300	650	

NOTE: -(Q) It is compulsory to appear and to pass the examination, but marks will not be included for percentage and division of obtained marks.

* Advance skill development mention at 4.7 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).

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

Student Centered Activities will comprise of co-curricular activities like extension lectures, games, hobby club, e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, library, Cultural Activities and self-study etc.

A. COMPULSORY SUBJECT OF II- SEMESTER ELECTRONICS ENGINEERING (Microelectronics) TO BE TAUGHT IN IV SEMESTER TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS:

1. MECHANIC (RADIO & T.V.) 2. MECHANIC (CONSUMER ELECTRONICS) 3. INSTRUMENT MECHANIC 4. ELECTRONICS MECHANIC 5. INFORMATION TECHNOLOGY & ELECTRONIC ENGINEERING 6. ELECTRONICS SECTOR 7. MECHANICS TECHNOLOGY & ELECTRONIC SYSTEM MAINTENANCE

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		
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 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

OPEN ELECTIVE-1

SR.NO.	(Q) THEORY COURSES NAME
1.	PRODUCT DESIGN AND DEVELOPMENT
2.	FUNDAMENTALS OF INNOVATION AND DESIGN THINKING

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

OPEN ELECTIVE -2

SR.NO.	(Q) THEORY COURSES NAME
1.	ELECTRIC VEHICLE
2.	INDUSTRIAL ROBOTICS

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