

### THIRD SEMESTER SCHEME FOR LATERAL ENTRY AND ITI PASSED STUDENTS ELECTRONICS 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	Electrical Engineering -II	4	-	4	6	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	Electronic Devices and Circuits	6	-	6	7	20	30	50	50	2 ½	50	3	100	150	
3.5	Electronics Workshop	-	-	6	3	-	40	40	-	-	60	4	60	100	
3.6	**Digital Electronics	4	-	4	6	20	30	50	50	2 ½	50	3	100	150	
3.7	Universal Human Values	2	-	1	1	-	20	20	-	-	30	3	30	50	
# Student Centred Activities		-	-	1	1	-	30	30	-	-	-	-	-	30	
<b>Total</b>		<b>24</b>	<b>-</b>	<b>24</b>	<b>31</b>	<b>100</b>	<b>190</b>	<b>290</b>	<b>250</b>	<b>-</b>	<b>260</b>	<b>-</b>	<b>510</b>	<b>800</b>	

\* Common with other diploma programmes

\*\* Common course with Computer Science and Engineering

# 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.

A. COMPULSORY SUBJECT OF I & II SEMESTER ELECTRONICS ENGINEERING TO BE TAUGHT IN III & IV Sem. TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS :

I. MECHANIC (RADIO & T.V.) II. MECHANIC (CONSUMER ELECTRONICS) III INSTRUMENT MECHANIC IV. ELECTRONICS MECHANIC V. INFORMATION TECHNOLOGY & ELECTRONIC ENGINEERING VI. ELECTRONIC SECTOR VII.MECHANIC 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	*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 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 SCHEME FOR LATERAL ENTRY AND ITI PASSED STUDENTS (ELECTRONICS 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	Industrial Electronics and Transducers	4	-	4	5	20	30	50	50	2 ½	50	3	100	150	
4.3	Network Filters and Transmission Line	4	--	4	5	20	30	50	50	2 ½	50	3	100	150	
4.4	Electronic Instruments and Measurement	4	-	4	5	20	30	50	50	2 ½	50	3	100	150	
4.5	Principles of Communication Engineering	4	-	4	5	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	
#Student Centred Activities (SCA)		-	-	5	1	-	30	30	-	-	-	-	-	30	
<b>Total</b>		<b>23</b>	<b>-</b>	<b>25</b>	<b>28</b>	<b>120</b>	<b>170</b>	<b>290</b>	<b>300</b>	<b>-</b>	<b>240</b>	<b>-</b>	<b>540</b>	<b>830</b>	

\* 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.

Industrial training of 4 weeks duration to be organised after 4<sup>th</sup> semester exams

B. COMPULSORY SUBJECT OF I & II SEMESTER ELECTRONICS ENGINEERING TO BE TAUGHT IN III & IV Sem. TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS :

I. MECHANIC (RADIO & T.V.) II. MECHANIC (CONSUMER ELECTRONICS) III INSTRUMENT MECHANIC IV. ELECTRONICS MECHANIC V. INFORMATION TECHNOLOGY & ELECTRONIC ENGINEERING VI. ELECTRONIC SECTOR VII.MECHANIC TECHNOLOGY & ELECTRONIC SYSTEM MAINTENANCE

Sr. No.	SUBJECTS	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	
2.1	*Applied Mathematics - II	5	-	-	4	-	-	-	50	2 ½	-	-	50	50
2.2	*Applied Physics -II	5	-	2	5	-	-	-	50	2 ½	20	3	70	70
<b>Total</b>		<i>10</i>	-	<b>2</b>	<i>9</i>	-	-	-	<b>100</b>	-	<b>20</b>	-	<b>120</b>	<b>120</b>

\* 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 4<sup>th</sup> 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 (ELECTRONICS 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	*Industrial Management & Entrepreneurship Development	5	-	-	4	20	-	20	50	2 ½	-	-	50	70	
5.2	Microprocessors	4	-	4	5	20	30	50	50	2 ½	50	3	100	150	
5.3	Optical Fiber Communication	4	-	6	6	20	30	50	50	2 ½	50	3	100	150	
5.4	Consumer Electronics	4	-	4	5	20	30	50	50	2 ½	50	3	100	150	
5.5	Programming in C	4	-	4	5	20	30	50	50	2 ½	50	3	100	150	
5.6	Minor Project Work	-	-	6	2	-	40	40	-	-	60	3	60	100	
#Student Centred Activities (SCA)		-	-	3	1		30	30	-	-	-	-	-	30	
<b>Total</b>		21	-	<b>27</b>	30	100	<b>190</b>	<b>290</b>	<b>250</b>	-	<b>310</b>	-	<b>560</b>	<b>850</b>	

# 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.

**SIXTH SEMESTER (ELECTRONICS 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	Microwave Engineering	4	-	4	5	20	30	50	50	2 ½	50	3	100	150	
6.2	Microcontrollers and Embedded System	6	-	6	7	20	30	50	50	2 ½	50	3	100	150	
6.3	Wireless and Mobile Communication System	4	-	6	6	20	30	50	50	2 ½	50	3	100	150	
6.4	*Elective	4	-	2	4	20	30	50	50	2 ½	50	3	100	150	
6.5	Project Work	-	-	8	3	-	50	50	-	-	100	4	100	150	
#Student Centred Activities (SCA)		-	-	4	1	-	30	30	-	-	-	-	-	30	
<b>Total</b>		<b>18</b>	<b>-</b>	<b>30</b>	<b>26</b>	<b>80</b>	<b>200</b>	<b>280</b>	<b>200</b>	<b>-</b>	<b>300</b>	<b>-</b>	<b>500</b>	<b>780</b>	

\*Elective: Any one out of the following:

6.4.1 Control System

6.4.2 Medical Electronics

6.4.3 Computer Networks

# 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.