

**PROGRAMME - DIPLOMA IN ELECTRONICS & TELECOMMUNICATION ENGINEERING
PROGRAMME STRUCTURE**

SCHEME AT A GLANCE

Level	Name of Level	Total Number of Courses offered	Number of Courses to be completed	TH	TU	PR	Total Hours	Total Credits	Marks
Level-1	Foundation Courses	10	10 Compulsory	17	01	18	36	27	950
Level-2	Basic Technology Courses	07	07 Compulsory	22	--	18	40	31	1150
Level-3	Allied courses	06	04 (03 Compulsory +01 Electives)	06	--	06	12	09	250
Level-4	Applied Technology Courses	09	09 Compulsory	19	--	16	35	41	1200
Level-5	Diversified Courses	09	03 (01 Compulsory +02 Electives)	09	--	06	15	12	450
TOTAL		41	30 compulsory +03 Electives 33	73	01	64	138	120	
Audit Courses		04	04	06	--	02	08	--	--
Grand Total		45	37	79	01	66	146	120	4000

Abbreviations :

TH : Theory, TU : Tutorial, PR: Practical.

PROGRAMME - DIPLOMA IN ELECTRONICS & TELECOMMUNICATION ENGINEERING
PROGRAMME STRUCTURE
LEVEL – 1
FOUNDATION COURSES

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
				Hours per Week				Total Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
01	21101	Communication Skills	CMS	02	--	02	04	03	03	80	20	--	--	50	150
02	21102	Engineering Mathematics	EMT	02	01	--	03	03	03	80	20	--	--	--	100
03	21103	Applied Mathematics	AMT	03	--	--	03	03	03	80	20	--	--	--	100
04	21104	Applied Physics	PHY	03	--	02	05	04	02	80#	20#	--	--	50	150
05	21105	Applied Chemistry	CHY	03	--	02	05	04	02	80#	20#	--	--	50	150
06	21107	Engineering Graphics	EGR	--	--	04	04	02	--	--	--	--	--	50	50
07	21109	Workshop Practice	WSP	--	--	04	04	02	--	--	--	--	--	50	50
08	21110	Introduction to IT Systems	ITS	--	--	02	02	01	--	--	--	--	--	50	50
09	21113	Electronic Workshop Practice	EWP	01	--	02	03	02	--	--	--	--	--	50	50
10	21114	Electronic Materials and Components	EMC	03	--	--	03	03	03	80	20	--	--	--	100
TOTAL			--	17	01	18	36	27	--	480	120	--	--	350	950

Level : 1

Total Courses : 10
Total Credits : 27
Total Marks : 950

Abbreviations:

Abbr : Course Abbreviation, TH : Theory, TU : Tutorial, PR: Practical, OR : Oral, TW : Term Work

Course code Indication:

First two digit : Indicates last two digits of Year of Implementation of Curriculum
Third digit : Indicates Level.
Fourth & fifth digit : Indicates Course Number.

Assessment of PR / OR / TW :

- 1) All orals & practicals are to be assessed by external & internal examiners.
- 2) TW are to be assessed by internal examiners.
- 3) # indicates Online theory Examination

PROGRAMME - DIPLOMA IN ELECTRONICS & TELECOMMUNICATION ENGINEERING
PROGRAMME STRUCTURE
LEVEL – 2
BASIC TECHNOLOGY COURSES

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
				Hours per Week				Total Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
01	21242	Electrical Technology	ELT	03	--	02	05	04	03	80	20	--	--	50	150
02	21243	Electronic Devices and Circuits	EDC	03	--	04	07	05	03	80	20	25	--	50	175
03	21244	Electronic Measurements & Instrumentation	ELM	03	--	02	05	04	03	80	20	--	--	50	150
04	21245	Digital Electronics	DEX	04	--	02	06	05	03	80	20	25	--	50	175
05	21246	Linear Integrated Circuits	LIC	03	--	04	07	05	03	80	20	25	--	50	175
06	21247	Analog Communication	ACO	03	--	02	05	04	03	80	20	--	25	50	175
07	21248	Industrial Electronics & Applications	IEA	03	--	02	05	04	03	80	20	25	--	25	150
TOTAL			--	22	--	18	40	31	--	560	140	100	25	325	1150

Level: 2

Total Courses : 07
Total Credits : 31
Total Marks : 1150

Assessment of PR / OR / TW :

- 1) All orals & practicals are to be assessed by external & internal examiners.
- 2) TW are to be assessed by internal examiners.

PROGRAMME - DIPLOMA IN ELECTRONICS & TELECOMMUNICATION ENGINEERING
PROGRAMME STRUCTURE
LEVEL – 3
ALLIED COURSES

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
				Hours per Week				Total Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
Compulsory															
01	21301	Entrepreneurship and Start-ups	EPS	01	--	02	03	02	--	--	--	--	--	50	50
02	21308	Industrial Organization and Management	IOM	03	--	---	03	03	03	80	20	--	--	--	100
03	21314	C Programming	CPG	01	--	02	03	02	--	--	--	--	--	50	50
Elective I : Any ONE of the following															
04	21306	Internet of Things	IOT	01	--	02	03	02	--	--	--	--	--	50	50
	21315	Python Programming	PYR	01	--	02	03	02	--	--	--	--	--	50	50
	21316	Programming in JAVA	PJA	01	--	02	03	02	--	--	--	--	--	50	50
TOTAL			--	06	--	06	12	09	03	80	20	--	--	150	250

Level: 3

Total Courses : 06 (Three Compulsory + One Elective)
Total Credits : 09
Total Marks : 250

Assessment of PR / OR / TW:

- 1) All orals & practicals are to be assessed by external & internal examiners.
- 2) TW are to be assessed by internal examiners.

PROGRAMME - DIPLOMA IN ELECTRONICS & TELECOMMUNICATION ENGINEERING
PROGRAMME STRUCTURE
LEVEL – 4
APPLIED TECHNOLOGY COURSES

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
				Hours per Week				Total Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
01	21410	Industrial Training	ITR	--	--	--	#	14					100	100	200
02	21411	Project	PRO	--	--	04	04	02	--	--	--	--	50	50	100
03	21438	Applied Electronics	AET	03	--	02	05	04	03	80	20	25	--	25	150
04	21439	Microcontroller & Interfacing Techniques	MCI	03	--	02	05	04	03	80	20	25	--	25	150
05	21440	Consumer Electronics	CEX	03	--	02	05	04	03	80	20	--	25	25	150
06	21441	Digital Communication System	DCS	04	--	02	06	05	03	80	20	--	25	25	150
07	21442	Artificial Intelligence and Fuzzy Logic	AIC	03	--	--	03	03	03	80	20	--	--	--	100
08	21443	Control System & PLC	CSP	03	--	02	05	04	03	80	20	--	25	25	150
09	21444	EDA Tools	EDA	--	--	02	02	01	--	--	--	-	--	50	50
TOTAL			--	19	--	16	35	41	--	480	120	50	225	325	1200

Level: 4

Total Courses : 09
Total Credits : 41
Total Marks : 1200

Assessment of PR / OR / TW:

- 1) All orals & practicals are to be assessed by external & internal examiners.
- 2) TW are to be assessed by internal examiners.
- 3) # indicates 04 hours/week for batch of 10 students (Will be as institute policy norms)

PROGRAMME - DIPLOMA IN ELECTRONICS & TELECOMMUNICATION ENGINEERING
PROGRAMME STRUCTURE
LEVEL – 5
DIVERSIFIED COURSES

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
				Hours per Week				Total Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
Compulsory															
01	21544	Advance Communication System	ACS	03	--	02	05	04	03	80	20	--	25	25	150
Elective II : Any TWO of the following															
02	21545	Embedded System	EMS	03	--	02	05	04	03	80	20	--	25	25	150
	21546	VLSI Techniques	VLT	03	--	02	05	04	03	80	20	--	25	25	150
	21547	Computer Networking and Data Communication	CDC	03	--	02	05	04	03	80	20	--	25	25	150
	21548	Microwave & RADAR	MAR	03	--	02	05	04	03	80	20	--	25	25	150
	21549	Optical Communication	OPC	03	--	02	05	04	03	80	20	--	25	25	150
	21550	Mechatronics	MET	03	--	02	05	04	03	80	20	--	25	25	150
	21551	Robotics Systems	RST	03	--	02	05	04	03	80	20	--	25	25	150
	51552	Industrial Automation	INA	03	--	02	05	04	03	80	20	--	25	25	150
TOTAL			--	09	--	06	15	12	--	240	60	--	75	75	450

Total Courses : 09
Total Credits : 12
Total Marks : 450

Assessment of PR / OR / TW:

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- 2) TW to be assessed by internal examiners.

PROGRAMME - DIPLOMA IN ELECTRONICS & TELECOMMUNICATION ENGINEERING
PROGRAMME STRUCTURE
AUDIT COURSES

Sr. No.	Course Code	Course Title	Course Abbr.	Contact Hours Per Week (TH)	Contact Hours Per Week (PR)	Total Contact Hours Per Week	Total Credits
01	21001	Environmental science	EVS	02	--	02	--
02	21002	Sports and Yoga	SPY	--	02	02	--
03	21003	Essence of Indian Knowledge and Tradition	IKT	02	--	02	--
04	21004	Indian Constitution	ICN	02	--	02	--
		TOTAL	--	06	02	08	--

Total Courses : 04
Total Credits : Nil
Total Marks : --

PROGRAMME - DIPLOMA IN ELECTRONICS & TELECOMMUNICATION ENGINEERING
PROGRAMME STRUCTURE
COURSES FOR AWARD OF CLASS

Sr. No.	Course Code	Course Title	Course Abbr.	TEACHING SCHEME					EXAMINATION SCHEME						
								Total Credits	Theory Paper		Test	PR	OR	TW	Total
				TH	TU	PR	Total Hours		Hrs	Mark					
Compulsory															
01	21248	Industrial Electronics & Applications	IEA	03	--	02	05	04	03	80	20	25	--	25	150
02	21308	Industrial Organization and Management	IOM	03	--	--	03	03	03	80	20	--	--	--	100
03	21410	Industrial Training	ITR	--	--	#	--	14	--	--	--	--	100	100	200
04	21411	Project	PRO	--	--	04	04	02	--	--	--	--	50	50	100
05	21439	Microcontroller & Interfacing Techniques	MCI	03	--	02	05	04	03	80	20	25	--	25	150
06	21440	Consumer Electronics	CEX	03	--	02	05	04	03	80	20	--	25	25	150
07	21441	Digital Communication System	DCS	04	--	02	06	05	03	80	20	--	25	25	150
08	21442	Artificial Intelligence and Fuzzy Logic	AIC	03	--	--	03	03	03	80	20	--	--	--	100
09	21443	Control System & PLC	CSP	03	--	02	05	04	03	80	20	--	25	25	150
10	21544	Advance Communication System	ACS	03	--	02	05	04	03	80	20	--	25	25	150
Elective II : Any TWO of the following															
	21545	Embedded System	EMS	03	--	02	05	04	03	80	20	--	25	25	150
	21546	VLSI Techniques	VLT	03	--	02	05	04	03	80	20	--	25	25	150
	21547	Computer Networking and Data Communication	CDC	03	--	02	05	04	03	80	20	--	25	25	150
	21548	Microwave & RADAR	MAR	03	--	02	05	04	03	80	20	--	25	25	150
	21549	Optical Communication	OPC	03	--	02	05	04	03	80	20	--	25	25	150
	21550	Mechatronics	MET	03	--	02	05	04	03	80	20	--	25	25	150
	21551	Robotics Systems	RST	03	--	02	05	04	03	80	20	--	25	25	150
	51552	Industrial Automation	INA	03	--	02	05	04	03	80	20	--	25	25	150
TOTAL			--	31	--	20	51	55	--	800	200	50	300	350	1700

Total Courses : 12
 Total Credits : 55
 Total Marks : 1700

Assessment of PR / OR / TW:

- 1) All orals & Practicals are to be assessed by external & internal examiners.
- 2) TW to be assessed by internal examiners only.

PROGRAMME - DIPLOMA IN ELECTRONICS & TELECOMMUNICATION ENGINEERING
SAMPLE PATH
ENTRY LEVEL- 10+

Nature of Course	First Year		Second Year		Third Year		Total
	Odd Term	Even Term	Odd Term	Even Term	Odd Term	Even Term	
Compulsory	21101 (03) CMS	21103 (03) AMT	21243 (05) EDC	21247 (04) ACO	21441 (05) DCS	21410(14) ITR	
	21102 (03) EMT	21105 (04) CHY	21244(04) ELM	21308 (03) IOM	21544 (04) ACS		
	21104 (04) PHY	21110 (01) ITS	21245 (05) DEX	21440 (04) CEX	21443 (04) CSP		
	21113 (02) EWP	21114 (03) EMC	21246 (05) LIC	21438 (04) AET	21444 (01) EDA		
	21109(02) WSP	21242 (04) ELT	21442 (03) AIC	21439 (04) MCI	21411 (02) PRO		
		21107 (02) EGR	21314 (02) CPG	21248 (04) IEA	--	--	
		--	21301 (02) EPS	--	--	--	
Total credits (Compulsory)	14	17	26	23	16	14	110
Elective	--	--		Any ONE from Elective : I 21306 IoT 21315 PYR 21316 PJA (02)	I) Any TWO from Elective :II 21545 EMS 21546 VLT 21547 CDC 21548 MAR 21549 OPC 21550 MET 21551 RST 21552 INA : (04+04)		--
Elective	--	--	Nil	01	02	--	03
Total Credits (Elective)	Nil	Nil	Nil	02	08	00	10
Total Courses	05	06	07	07	07	01	33
Audit Courses	21002 SPY (00)	21001 EVS(00)	21003 IKT(00)	21004 ICN(00)	00	00	00
Total Credits (Compulsory + Elective)	14	17	26	25	24	14	120
Grand Total of Credits	--	--	--	--	--	--	120

Note : Figures in bracket indicates total credits.