PROGRAMME - DIPLOMA IN ELECTRICAL ENGINEERING PROGRAMME STRUCTURE

SCHEME AT A GLANCE

Level	Name of Level	Total Number of Courses offered	Number of Courses to be completed	тн	TU	PR	Total Hrs	Total Credit s	Marks
Level-1	Foundation Courses	09	09 Compulsory	16	01	18	35	26	950
Level-2	Basic Technology Courses	08	08 Compulsory	21	01	14	36	29	1075
Level-3	Allied courses	06	04 (03 Compulsory +01 Electives)	06		06	12	09	250
Level-4	Applied Technology Courses	11	11 Compulsory	27		22+35	49+35	52	1575
Level-5	Diversified Courses	04	O1 Electives	03		02	05	04	150
тс	DTAL	38	31compulsory +02 Electives 33	73	02	62+35= 97	137+35= 172	120	4000
Audit cours	ses	04	04	06		02			
Grand Tota	al	42	37	79	02	99	145+ 35=180	120	4000

Abbreviations:

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

PROGRAMME - DIPLOMA IN ELECTRICALENGINEERING PROGRAMME STRUCTURE LEVEL - 1 **FOUNDATION COURSES**

Sr.	Course	Course Title	e Course		TE	ACHI	NG SCH	EME	EXAMINATION SCHEME								
No.	Code	Course riue	Abbr.	Н	ours	per	Week			eory aper	Took	DD	OD	T.4/	Total		
				TH TU PR Hours		Credits	Hrs	Mark	Test	PR	OR	TW	Iotai				
01	21101	Communication Skills	CMS	02	-	02	04	03	03	80	20	-	-	50	150		
02	21102	Engineering Mathematics	EMT	02	01	1	03	03	03	80	20	-		1	100		
03	21103	Applied Mathematics	AMT	03		1	03	03	03	80	20	-		1	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	21108	Engineering Mechanics	EMH	03	ı	02	05	04	03	80	20	I		50	150		
08	21109	Workshop Practice	WSP			04	04	02			1			50	50		
09	21110	Introduction to IT System	ITS			02	02	01			-			50	50		
	TOTAL 16		01	18	35	26		480	120			350	950				

Level: 1

Total Courses : 09 Total Credits : 26 Total Marks : 950

Abbreviations:

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

Course code Indication:

First two digit
Third digit : Indicates last two digits of Year of Implementation of Curriculum

: Indicates Level. Third digit

Fourth & fifth digit : Indicates Course Number.

Assessment of PR / OR / TW:

1) All orals & practical are to be assessed by external & internal examiners.

2) Other TW are to be assessed by internal examiners.

3) #indicates Online theory Examination

PROGRAMME - DIPLOMA IN ELECTRICAL ENGINEERING PROGRAMME STRUCTURE LEVEL - 2 **BASIC TECHNOLOGY COURSES**

			_		TE/	\CH1	NG SCH	EME	EXAMINATION SCHEME							
Sr. No.	Course Code	Course Title	Course Abbr.	Н	ours	Per	Week			eory aper	Tost	PR	OD	TM/	Total	
				тн	TU	PR	Total Hours	Credits	Hrs	Mark	Test	PK	OR	TW	Total	
01	21224	Elements of Electrical Engineering	EEE	03		02	05	04	03	80	20	25		25	150	
02	21225	Electrical Network	ENW	03	01	02	06	05	03	80	20	25		25	150	
03	21226	Electrical Measurement & Instrumentation	EMI	03		02	05	04	03	80	20	25		25	150	
04	21227	DC Machines & Transformers	DCT	03		02	05	04	03	80	20	25		25	150	
05	21228	Electrical Material & Workshop	EMW			02	02	01					25	50	75	
06	21229	Elements of Electronics	EEL	03		02	05	04	03	80	20	25		25	150	
07	21230	Electric Power Generation	EPG	03			03	03	03	80	20				100	
08	21231	Analog & Digital Electronics	ADE	03		02	05	04	03	80	20	25		25	150	
	TOTAL			21	01	14	36	29		560	140	150	25	200	1075	

Level: 2

Total Courses : 08 Total Credits : 29 Total Marks : 1075

Assessment of PR / OR / TW:

All orals & practicals are to be assessed by external & internal examiners.
 Other TW are to be assessed by internal examiners.

PROGRAMME - DIPLOMA IN ELECTRICAL ENGINEERING PROGRAMME STRUCTURE LEVEL - 3 **ALLIED COURSES**

					TE	ACHI	NG SCH	EME		EXA	MINA	LION	I SCH	HEME	
Sr. No.	Course Code	Course Title	Course Abbr.	Н	ours	Per	Week			eory aper	Test	PR	OR	TW	Total
				тн	TU	PR	Total Hours	Credits	Hrs	Mark	iest	PK	OK	1 00	IOLAI
01	21301	Entrepreneurship and Start-ups	EPS	01	1	02	03	02	I	1	1		I	50	50
02	21303	Programming and Problem Solving	PPS	01	-	02	03	02						50	50
03	21308	Industrial Organization & Management	IOM	03			03	03	03	80	20				100
Ele	ctive I :	Any ONE of the fo	llowing												
	21305	Artificial Intelligence	AIC	01	-	02	03	02	1				1	50	50
04	21306	Internet of Things	IOT	01	1	02	03	02	I	1	1		1	50	50
	21311	Computer Aided Electrical Drawing	CED	01	-	02	03	02					-	50	50
	TOTAL			06	1	06	12	09	1	80	20		ł	150	250

Level: 3

Total Courses : 04 Total Credits : 09
Total Marks : 250

Assessment of PR / OR / TW:

All orals & practicals are to be assessed by external & internal examiners.
 Other TW are to be assessed by internal examiners.

PROGRAMME - DIPLOMA IN ELECTRICAL ENGINEERING PROGRAMME STRUCTURE LEVEL - 4 APPLIED TECHNOLOGY COURSES

					TE	ACH:	ING SCH	EME		EX	AMIN	ATIC	ON SC	НЕМ	E
Sr. No.	Course Code	Course Title	Course Abbr.	Н	ours	Per	Week			eory aper	Took	DD	OD	T)4/	Tatal
				тн	TU	PR	Total Hours	Credits	Hrs	Mark	Test	PK	OR	TW	Total
01	21410	Industrial Training	INT		1	1	35	14			1	1	100	100	200
02	21411	Project	PRO			04	04	02					50	50	100
03	21424	Electrical Installation Systems	EIS	03	ŀ	02	05	04	03	80	20	1	1	25	125
04	21425	A.C. Machines	ACM	03		02	05	04	03	80	20	25		25	150
05	21426	Transmission & Distribution of Electrical Power	TDE	03	-	02	05	04	03	80	20	1		25	125
06	21427	Switchgear & Protection	SGP	03		02	05	04	03	80	20		25	25	150
07	21428	Testing & Maintenance of Electrical Machines	TME	03		02	05	04	03	80	20	1	25	25	150
08	21429	Utilization of Electrical Energy	UEE	03		02	05	04	03	80	20			25	125
09	21430	Electrical Energy Management	EEM	03		02	05	04	03	80	20		25	25	150
10	21431	Power Electronics & Applications	PEX	03	-	02	05	04	03	80	20	1	25	25	150
11	Microcontrollor &		MCA	03	-	02	05	04	03	80	20	1	25	25	150
	7	ΓΟΤΑL		27		57	84	52		720	180	25	275	375	1575

Level: 4

Total Courses : 11
Total Credits : 52
Total Marks : 1575

Assessment of PR / OR / TW:

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

PROGRAMME - DIPLOMA IN ELECTRICAL ENGINEERING PROGRAMME STRUCTURE LEVEL - 5 **DIVERSIFIED COURSES**

					TE/	ACH]	ING SCHI	EME	EXAMINATION SCHEME						
Sr. No.	Course Code	Course Title	Course Abbr.	Н	ours	Per	Week	Credits		eory aper	Took	DD	O D	T) A/	Tatal
				тн	TU	PR	Total Hours		Hrs	Mark	Test	PR	OR	TW	Total
Ele	ctive III	: Any ONE of the	followin	g											
	21522	Traction Engineering	TRE	03	-	02	05	04	03	80	20	-	25	25	150
01	21523	Industrial Automation & Control	IAC	03		02	05	04	03	80	20	- 1	25	25	150
	21524	Electric Vehicles	EVH	03		02	05	04	03	80	20		25	25	150
	21525	Illumination Engineering	ILE	03	I	02	05	04	03	80	20	-	25	25	150
	TOTAL		-	03		02	05	04		80	20		25	25	150

Level: 5

Total Courses : 01 Total Credits : 04 Total Marks : 150

Assessment of PR / OR / TW:

- All orals & practicals are to be assessed by external & internal examiners.
 Other TW are to be assessed by internal examiners.

PROGRAMME - DIPLOMA IN ELECTRICAL ENGINEERING PROGRAMME STRUCTURE AUDIT COURSES

Sr. No.	Course Code	Course Title	Contact Hours Per Week (TH)	Contact Hours Per Week (PR)	Total Contact Hours Per Week
1	21001	Environmental science (EVS)	2		2
2	21002	Sports and Yoga(SPY)		2	2
3	21003	Essence of Indian Knowledge and Tradition (IKT)	2		2
4	21004	Indian Constitution (ICT)	2	-	2

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

PROGRAMME - DIPLOMA IN ELECTRICAL ENGINEERING Courses for Award of Class

					TE	ACHI	NG SCHE	ME	EXAMINATION SCHEME							
Sr.No.	Course Code	Course Title	Course Abbr.	Н	ours	Per	Week	Credits		eory aper						
	Couc			тн	TU	PR	Total Hours		Hrs	Mark	Test	PR	OR	TW	Total	
01	21308	Industrial Organization & Management	IOM	03		-	03	03	03	80	20				100	
02	21410	Industrial Training	INT			35	35	14					100	100	200	
03	21411	Project	PRO			04	04	02					50	50	100	
04	21424	Electrical Installation Systems	EIS	03		02	05	04	03	80	20			25	125	
05	21425	A.C. Machines	ACM	04		02	06	05	03	80	20	25		25	150	
06	21427	Switchgear & Protection	SGP	03		02	05	04	03	80	20		25	25	150	
07	21428	Testing & Maintenance of Electrical Machines	TME	03		02	05	04	03	80	20		25	25	150	
08	21429	Utilization of Electrical Energy	UEE	03		02	05	04	03	80	20	-		25	125	
09	21430	Electrical Energy Management	EEM	03		02	05	04	03	80	20		25	25	150	
10	21431	Power Electronics and Applications	PEX	03		02	05	04	03	80	20		25	25	150	
11	21432	Microcontroller & Applications	MCA	03		02	05	04	03	80	20		25	25	150	
Electiv	e III : An	y ONE of the following	ng													
	21522	Traction Engineering	TRE	03		02	05	04	03	80	20		25	25	150	
12	21523	Industrial Automation & Control	IAC	03		02	05	04	03	80	20		25	25	150	
	21524	Electric Vehicles	EVH	03	-	02	05	04	03	80	20		25	25	150	
	21525	Illumination Engineering	ILE	03		02	05	04	03	80	20	-	25	25	150	
	ТО	TAL		31		57	88	56		800	200	25	300	375	1700	
	Total Courses : 12															

Total Credits : 56 Total Marks : 1700 Assessment of PR / OR / TW:

All orals & practicals are to be assessed by external & internal examiners.
 Other TW are to be assessed by internal examiners.

PROGRAMME - DIPLOMA IN ELECTRICAL ENGINEERING SAMPLE PATH ENTRY LEVEL- 10+

Nature of	First	Year	Seco	nd Year	Third	Year	T.4.1
Course	Odd Term	Even Term	Odd Term	Even Term	Odd Term	Even Term	Total
	21102 EMT(03) 21104 PHY(04) 21107	21101 CMS(03) 21103 AMT(03) 21105	21225 ENW(05) 21226 EMI(04) 21227	21301 EDP(02) 21308 IOM(03) 21424	21411 PRO(02) 21427 SGP(04) 21428	21410 INT(14)	
Compulsory	EGR(02) 21108 EMH(04) 21110 ITS(01)	CHY(04) 21109 WSP(02) 21224 EEE(04) 21229 EEL(04)	DCT(04) 21228 EMW(01) 21231 ADE (04) 21303 PPS(02)	EIS(04) 21425 ACM(04) 21429 UEE(04) 21431 PETX(04)	TME(04) 21430 EEM(04) 21432 MCA(04)		
Total credits		21230 EPG(03)	21426 TDE(04)				
(Compulsory)	14	23	24	21	18	14	114
Elective				Elective I 21305 AIC(02), 21306 IOT(02), 21311 CED(02)	Elective III 21522 TRE(04) 21523 IAC(04) 21524 EVH(04) 21525 ILE(04)		
Total Credits (Elective)				02	04		06
Total Courses							
Audit Courses	21002 SPY(00)	21001 EVS(00)	21003 IKT(00)	21004 ICT(00)			
Total Credits (Compulsory + Elective)							
		Gra	nd Total of (Credits			120

Note: Figures in bracket indicates total credits.