



HINDUSTAN
INSTITUTE OF TECHNOLOGY & SCIENCE
(DEEMED TO BE UNIVERSITY)

Department of Electrical and Electronics Engineering

Diploma in Electrical and Electronics Engineering

Curriculum Structure

I – VI Semesters

Semester-wise Detailed Curriculum

FRAMEWORK OF CURRICULUM R 2024 (SEM I)

[illegible]

FRAMEWORK OF CURRICULUM R 2024 (SEM II)

[illegible]

FRAMEWORK OF CURRICULUM R 2025 (SEM III)

[illegible]

FRAMEWORK OF CURRICULUM R 2025 (SEM IV)

SL. NO	SEM	COURSE CATEGORY	COURSE TYPE	NAME OF THE COURSE	L	T	P	C	TCH
1	IV	PC	TP	Fundamentals of Power Electronics	2	1	2	4	5
2	IV	PC	TP	Electric Power Transmission and Distribution	2	1	2	4	5
3	IV	PC	TP	Induction, Synchronous and Special Electrical Machines	3	0	2	4	5
4	IV	DE	TP	Elective I	2	0	2	3	4
5	IV	DE	TP	Elective II	2	0	2	3	4
6	IV	EEC	PJ	Minor Project	0	0	4	2	4
Total					11	02	14	20	27
L-Lecture T-Tutorial P-Practical C-Credit TCH-Total Contact Hours									

FRAMEWORK OF CURRICULUM R 2025 (SEM V)

SL. NO	SEM	COURSE CATEGORY	COURSE TYPE	NAME OF THE COURSE	L	T	P	C	TCH
1	V	PC	TP	Microcontroller Applications	3	0	2	4	5
2	V	PC	TP	Energy Conservation and Audit	3	0	2	4	5
3	V	DE	TP	Elective III	2	0	2	3	4
4	V	DE	TP	Elective IV	2	0	2	3	4
5	V	DE	TP	Elective V	2	0	2	3	4
6	V	EEC	PJ	Project Phase 1	0	0	4	2	4
7	V	EEC	IN	Internship*	0	0	-	1	N A
Total					12	0	14	20	29
L-Lecture T-Tutorial P-Practical C-Credit TCH-Total Contact Hours									

FRAMEWORK OF CURRICULUM R 2025 (SEM VI)

SL. NO	SEM	COURSE CATEGORY	COURSE TYPE	NAME OF THE COURSE	L	T	P	C	TCH
1	VI	PC	TP	Building Electrification	3	0	2	4	5
2	VI	DE	TP	Elective VI	2	0	2	3	4
3	VI	DE	TP	Elective VII	2	0	2	3	4
3	VI	EEC	PJ	Project Phase 2	0	0	16	8	16
Total					7	0	22	18	29
L-Lecture T-Tutorial P-Practical C-Credit TCH-Total Contact Hours									

TOTAL CREDITS: (20+20+22+20+20+18) = 120 CREDITS

Evaluation of Project Phase I to be considered for grading during Project Phase II

List of Elective Courses

LIST OF DEPARTMENT ELECTIVES									
SL. NO	SEM	COURSE TYPE	COURSE CODE	NAME OF THE COURSE	L	T	P	C	TCH
Elective - I									
1	IV	TP	EEPE***	Industrial Instrumentation and Condition Monitoring	2	0	2	3	4
2	IV	TP	EEPE***	Industrial Automation & Control	2	0	2	3	4
Elective - II									
3	IV	TP	EEPE***	Industrial Drives	2	0	2	3	4
4	IV	TP	EEPE***	Communication Technologies	2	0	2	3	4
Elective - III									
5	V	TP	EEPE***	Electrical Testing and Commissioning	2	0	2	3	4
6	V	TP	EEPE***	Electrical Estimation and Contracting	2	0	2	3	4
Elective - IV									
7	V	TP	EEPE***	Illumination Practices	2	0	2	3	4
8	V	TP	EEPE***	Switchgear and Protection	2	0	2	3	4
Elective - V									
9	V	TP	EEPE***	Solar Power Technologies	2	0	2	3	4
10	V	TP	EEPE***	Wind Power Technologies	2	0	2	3	4
Elective - VI									
11	VI	TP	EEPE***	Biomass and Micro-hydro Power Plants	2	0	2	3	4
12	VI	TP	EEPE***	Electric Vehicles	2	0	2	3	4
L-Lecture T-Tutorial P-Practical C-Credit TCH-Total Contact Hours									
Elective - VII									
13	VI	TP	EEPE***	Electric Traction	2	0	2	3	4
14	VI	TP	EEPE***	Industry Standards and Specifications	2	0	2	3	4
L-Lecture T-Tutorial P-Practical C-Credit TCH-Total Contact Hours									

