

UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY  
MAHARSHI DAYANAND UNIVERSITY, ROHTAK

**NEW SCHEME OF STUDIES AND EXAMINATION(w.e.f. 2023-24)**

**B-TECH 4<sup>th</sup> YEAR (ELECTRICAL & ELECTRONICS ENGINEERING) SEMESTER-VII**

Sl. No.	Course Code	Course Title	Teaching Schedule L T P			Examination Schedule (Marks)				Credit	Duration of Exam (Hours)
						Internal Assesment	Theory	Practical	Total		
1.	Refer to Table-I	Program Elective -IV	3	1	0	25	75	0	100	4	3
2.	Refer to Table-II	Program Elective -V	3	1	0	25	75	0	100	4	3
3.	Refer to Table-III	Open Elective-III	3	0	0	25	75	0	100	3	3
4.	Refer to Table-IV	Open Elective-IV	3	0	0	25	75	0	100	3	3
5.	PROJ-EE-423G	Project Stage-I	0	0	4	50	0	50	100	2	3
6.	HSMC - 08G	Fundamentals of Management	2	0	0	25	75	0	100	2	2
7.	INT –EE-425G	Summer Internship	0	0	2	Grades	-	-	Refer Note 1		
Total						175	375	50	600	18	

Note: 1. The evaluation of Summer Internship will be based on seminar, viva-voce, report submitted by the students. According to performance, the students are awarded grades A, B, C, F. A student who is awarded 'F' grade is required to repeat.

2. Choose any one subject from Program Elective -IV
3. Choose any one subject from Program Elective –V
4. Choose any one subject from Open Elective- III
5. Choose any one subject from Open Elective- IV

TABLE-1

**PROGRAM ELECTIVE LIST (Program Elective -IV)**

S. No.	Course Code	Title of the Course
1.	PEC-EE-401G	Power management
2.	PEC-EE-403G	Electrical Engineering Drawing
3.	PEC-EE-405G	Utilization of Electrical Power
4.	PEC-EE-407G	Advanced Power Electronics
5.	PEC-EE-409G	Power System Planning and Reliability

**TABLE-II**  
**PROGRAM ELECTIVE LIST (Program Elective -V)**

S. No.	Course Code	Title of the Course
1.	PEC-EE-411G	Modelling and Analysis of Electrical Machines
2.	PEC-EE-413G	Microcontroller Based System Design
3.	PEC-EE-415G	Advanced Power Transmission
4.	PEC-EE-417G	Computer Aided Power System Analysis

**TABLE-III**  
**OPEN ELECTIVE LIST FOR VII SEM (Open Elective-III)**

S. No.	Course Code	Title of the Course
1	OEC-EE-401G	Intelligent Systems & Control
2	OEC-EE-403G	Renewable Energy and distributed generation
3	OEC-CE- 448G	Traffic Engineering and Road Safety
4	OEC-ME-410G	Quality Engineering

**TABLE-IV**  
**OPEN ELECTIVE LIST FOR VII SEM (Open Elective-IV)**

S. No.	Course Code	Title of the Course
1	OEC-EE-407G	Solar Photovoltaic Technology
2	OEC-EE-409G	Energy Conservation and Management
3	OEC-CE- 450G	Disaster Management
4	OEC-ECE-451-G	Electronic Principles
5	OEC-MATH-405 G	Advance Engineering Mathematics
6	OEC-CSE-430G	Computer Communication

**NEW SCHEME OF STUDIES AND EXAMINATION(w.e.f 2023-24)  
B-TECH 4<sup>th</sup> YEAR (ELECTRICAL & ELECTRONICS ENGINEERING) SEMESTER-VIII**

Sl. No.	Course Code	Course Title	Teaching Schedule			Examination Schedule (Marks)				Credit	Duration of Exam (Hours)
			L	T	P	Internal Assesment	Theory	Practical	Total		
1.	Refer to Table-III	Program Elective –VI	3	1	0	25	75	0	100	4	3
2.	Refer to Table-IV	Open Elective-V	3	0	0	25	75	0	100	3	3
3.	Refer to Table-V	Open Elective-VI	3	0	0	25	75	0	100	3	3
4.	PROJ-EE-422G	Project Stage-II	0	0	8	50	0	100	150	4	3
5.	SEM-EE-424G	Seminar	0	0	2	50	0	50	100	1	3
6.	GP –EE-426G	General Proficiency	0	0	2	-	-	50	50	-	3
Total						175	225	200	600	15	

TABLE-III  
PROGRAM ELECTIVE-VI LIST FOR VIII SEM

S. No.	Course Code	Title of the Course
1.	PEC-EE-402G	Special Electrical Machines
2.	PEC-EE-404G	Applications of Power Electronics in Power Systems
3.	PEC-EE-406G	Power System Stability
4.	PEC-EE-408G	Advanced Control Systems
5.	PEC-EE-410G	Advances in Power Transmission & Distribution

TABLE-IV  
OPEN ELECTIVE-V LIST FOR VIII SEM

S. No.	Course Code	Title of the Course
1	OEC-EE-402G	Solar Thermal Applications
2	OEC-EE-404G	Electrical Safety and Standards
3	OEC-EE-406G	Industrial Control
4	OEC-EEE-418G	Artificial Intelligence and Expert System
5	OEC-EEE-420G	Software Engineering
6	OEC-ME-402G	Operations Research

TABLE-V  
OPEN ELECTIVE-VI LIST FOR VIII SEM

S. No.	Course Code	Title of the Course
1	OEC-EE-408-G	Solar Energy Appliances
2	OEC-EE-410-G	Renewable Energy Converters
3	OEC-EE-412-G	Robotics
4	OEC-EE-414-G	Energy Management and Auditing
5	OEC-EEE-402-G	Optimization Theory
6	OEC-EEE-404-G	Image Processing
7	OEC-EEE-406-G	Virtual Instrumentation
8	OEC-EEE-408-G	Intelligent Instrumentation
9	OEC-EEE-410-G	Solid & Hazardous Waste Management
10	OEC-EEE-412-G	Op-Amp Applications