

UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY  
MAHARSHI DAYANAND UNIVERSITY, ROHTAK

**SCHEME OF STUDIES AND EXAMINATION(w.e.f. 2021-22)**

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

Sl. No.	Course Code	Course Title	Teaching Schedule			Examination Schedule (Marks)				Credit	Duration of Exam (Hours)
			L	T	P	Internal Assessment	Theory	Practical	Total		
1.	Refer to Table-1	Program Elective -IV	3	1	0	25	75	0	100	4	3
2.	Refer to Table-1	Program Elective -V	3	1	0	25	75	0	100	4	3
3.	Refer to Table-II	Open Elective-III	3	0	0	25	75	0	100	3	3
4.	Refer to Table-II	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	-	-	Refer to 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-11**  
**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-EE-405G	Reliability engineering
4	OEC-CE- 448G	Traffic Engineering and Road Safety
5	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

**SCHEME OF STUDIES AND EXAMINATION(w.e.f 2021-22)**  
**B-TECH 4<sup>th</sup> YEAR (ELECTRICAL AND ELECTRONICS ENGINEERING) SEMESTER-VIII**

Sl. No.	Course Code	Course Title	Teaching Schedule L T P			Examination Schedule (Marks)				Credit	Duration of Exam (Hours)
						Internal Assessment	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-IV	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	

1. Choose any one subject from Program Elective –VI
2. Choose any one subject from Open Elective-V
3. Choose any one subject from Open Elective-VI

TABLE-3  
PROGRAM ELECTIVE LIST-VI

S. No.	Course Code	Title of the Course
1.	PEC-EE-402G	Special Electrical Machines
2.	PEC-EE-404G	Electrical Safety and Standards
3.	PEC-EE-406G	Electrical Energy Conservation and Auditing
4.	PEC-EE-408G	Advanced Control Systems
5.	PEC-EE-410G	Advances in Power Transmission & Distribution
OPEN ELECTIVE LIST V		
1.	PEC-EE-412G	Power System Stability
2.	PEC-EE-414G	Applications of Power Electronics in Power Systems
3.	PEC-EEE-416G	Image Processing
4.	PEC-EEE-418G	Artificial Intelligence and Expert system

5.	PEC-EEE-420G	Software Engineering
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TABLE-VI  
OPEN ELECTIVE LIST VI

<b>S. No.</b>	<b>Course Code</b>	<b>Title of the Course</b>
1	OEC-EE-402G	Optimization Theory
2	OEC-EE-404G	Virtual Instrumentation
3	OEC-EE-406G	Solar Thermal Applications
4	OEC-EE-408G	Renewable Energy Converters
5	OEC-EE-410G	Intelligent Instrumentation
6	OEC-EE-412G	Solid & Hazardous waste management
7	OEC-EE-414G	Robotics
8	OEC-EE-416G	Industrial control
9	OEC-EE-418G	Solar Energy Appliances
10	OEC-EEE-420G	OP-Amp Application