M.D. UNIVERSITY, ROHTAK

(NAAC Accredited 'A+' Grade)

SCHEME OF STUDIES AND EXAMINATION
B.TECH (Electrical & Electronics Engineering)
SEMESTER 5th
Scheme effective from 2023-24

COURSE CODE AND DEFINITIONS:

Course Code	Definitions
L	Lecture
T	Tutorial
P	Practical
BSC	Basic Science Courses
ESC	Engineering Science Courses
HSMC	Humanities and Social Sciences including Management courses
PCC	Professional Core Courses
LC	Laboratory Courses
MC	Mandatory Courses
PT	Practical Training
S	Seminar
TH	Theory
Pr	Practical

General Notes:

1. Mandatory courses are non credit courses in which students will be required passing marks in internal assessments.
2. Students will be allowed to use non programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
3. Students will be permitted to opt for any elective course run by the department. However, the department shall offer those electives for which they have expertise. The choice of the students for any elective shall not be binding for the department to offer, if the department does not have expertise. To run the elective course a minimum of 1/3rd students of the class should opt for it.

Scheme of Studies and Examination
B.TECH (Electrical & Electronics Engineering) – 5th Semester
w.e.f. 2020-21

Sl. No.	Course Code	Course Title	Teaching Schedule L	T	P	Internal Assessment	Examination marks Theory	Practical	Total Marks	Credit	Duration of examination in hour
1.	PCC-EE-301G	Power Systems–I	3	0	0	25	75	0	100	3	3
2.	LC -EE-303G	Power Systems–I Laboratory	0	0	2	25	0	25	50	1	2
3.	PCC - EE-305G	Control System	3	0	0	25	75	0	100	3	3
4.	LC-EE-307G	Control System LAB	0	0	2	25	0	25	50	1	2
5.	PCC - EE-309G	Microprocessor & Microcontroller	3	0	0	25	75	0	100	3	3
6.	LC EE-311G	Microprocessor & Microcontroller Lab	0	0	2	25	0	25	50	1	2
7.	PCC-EEE-313G	Electronic Measurement and Instrumentation	3	1	0	25	75	0	100	3	3
8.	LC-EEE-315G	Electronic Measurement and Instrumentation Lab	0	0	2	25	0	25	50	1	2
9.		Elective-I	3	0	0	25	75	0	100	3	3
10.		Open Elective – I	3	0	0	25	75	0	100	3	3
11.	HSMC-01G	Economics for Engineers	3	0	0	25	75	0	100	3	3
12.	PT-EEE317G	Practical Training-1	-	-	-	Grades	-	-	* Refer Note 1		
	Total								**900**	**25**	

Note:

1. The evaluation of Practical Training-I 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 Practical Training.
   Excellent: A; Good : B; Satisfactory: C; Not Satisfactory: F.

2. Choose any one from Elective-I
3. Choose any one from Open Elective - I

ELECTIVE - I

Sr. No	Code	Subject	Credit
1	PEC-EEE-01G	Digital system design	3
2	PEC-EEE-03G	Scientific computing	3
3	PEC-EE-05G	HVDC Transmission system	3
4	PEC-EE-07G	High voltage engineering	3
5	PEC-EEE-09G	Biomedical Electronics	3
6	PEC-EEE-11G	Speech and audio processing	3

OPEN ELECTIVE-I

Sr.No	Code	Subject	Credit
1	OEC-EE01G	Electrical Engineering Materials	3
2	OEC-ECE332G	Additive manufacturing	3
3	OEC-EEE05G	Intelligent Instrumentation	3
4	OEC-EE07G	Power plant engineering	3

Scheme of Studies and Examination
B.TECH (Electrical & Electronics Engineering) – 6th Semester
w.e.f. 2020-21

Sl. No.	Course Code	Course Title	Teaching Schedule L	T	P	Marks of class work	Examination marks Theory	Practical	Total Marks	Credit	Duration of examination in hour
1.	PCC - EE-302G	Power Systems–II	3	0	0	25	75	0	100	3	3
2.	LC -EE-304G	Power Systems–II Laboratory	0	0	2	25	0	25	50	1	2
3.	PCC - EEE-306G	Digital Signal Processing	3	0	0	25	75	0	100	3	3
4.	LC - EEE-308G	Digital Signal Processing Laboratory	0	0	2	25	0	25	50	1	2
5.	PCC - EEE-310G	VLSI Design	3	0	0	25	75	0	100	3	3
6.	LC - EEE-312G	VLSI Design Lab	0	0	2	25	0	25	50	3	3
7.	PEC-II	Program Elective-II refer in List-III	3	0	0	25	75	0	100	3	3
8.	OEC-II	Open Elective –II refer in List-IV	3	0	0	25	75	0	100	3	3
9.	HSMC-02G	Organisational Behaviour	3	0	0	25	75	0	100	3	3
	Total								750	23	

Note:

Each student has to undergo practical training of 6 weeks during summer vacation after 6th semester and its evaluation shall be carried out in 7th Semester.

List-III

PROGRAMM ELECTIVE (Semester-VI)			
Sr. No	**Code**	**Subject**	**Credit**
1.	PEC-EE-04G	Electrical and hybrid vehicle	3
2.	PEC-EE-06G	Power system protection	3
3.	PEC-EE-08G	Advance Electric Drives	3
4.	PEC-EE-10G	Electrical Machine Design	3
5.	PEC-EEE-12G	Computer organization and architecture	3

List-IV

OPEN ELECTIVE-I [Semester-VI]			
Sr.No	Code	Subject	Credit
1.	OEC-EE-04G	Python programming	3
2.	OEC-EE-06G	Introduction to MEMS	3
3.	OEC-EE-08G	Conventional and Renewable Energy Resources	3
4.	OEC-EE-10G	Soft Computing	3