

**Gurugram University Scheme of Studies and Examination**  
**Bachelor of Technology Semester 5**

S.No.	Category	Course Code	Course Title	Hours per week			Credits	Marks for Sessional	Marks for End Term Examination	Total
				L	T	P				
1	PCC		Power System I	3	1	0	3	30	70	100
2	PCC		Digital System Design	3	1	0	3	30	70	100
3	PCC		Communication Systems	3	1	0	3	30	70	100
4	PCC		Digital Signal Processing	3	1	0	3	30	70	100
5	PEC		Professional Elective I	3	0	0	3	30	70	100
6	OEC		Open Elective I	3	0	0	3	30	70	100
7	LC		Power System I Lab	0	0	2	1	50	50	100
8	LC		Digital System Design Lab	0	0	2	1	50	50	100
9	LC		Communication Systems Lab	0	0	2	1	50	50	100
10	LC		Digital Signal Processing Lab	0	0	2	1	50	50	100
11	PT		Practical Training-I	0	0	2	1	100	-	100
<b>Total</b>							<b>23</b>			<b>1100</b>

**NOTE:**

1. Choose any one from Professional Elective Course-I
2. Choose any one from Open Elective Course-I
3. **Practical Training-I:** The examination of the regular students will be conducted by the concerned college/Institute internally. Each student will be required to score a minimum of 40% marks to qualify in the paper. The marks will not be included in determining the percentage of marks obtained for the award of a degree.

**PROFESSIONAL ELECTIVE- I (Semester-V)**

Sr. No	Code	Subject	Credit
1.		Special Electrical Machine	3
2.		VLSI	3
3.		Nano Electronics	3
4.		High Speed Electronics	3
5.		Bio-Medical Electronics	3
6.		Power Quality	3

**Gurugram University Scheme of Studies and Examination**  
**Bachelor of Technology Semester 6**

S.No.	Category	Course Code	Course Title	Hours per week			Credits	Marks for Sessional	Marks for End Term Examination	Total
				L	T	P				
1	PCC		Power System II	3	1	0	3	30	70	100
2	PCC		Control System	3	1	0	3	30	70	100
3	PCC		Microprocessors and Microcontrollers	3	1	0	3	30	70	100
4	PEC		Professional Electives II	3	0	0	3	30	70	100
5	PEC		Professional Electives III	3	0	0	3	30	70	100
6	OEC		Open Elective II	3	0	0	3	30	70	100
7	LC		Power System II Lab	0	0	2	1	50	50	100
8	LC		Control System Lab	0	0	2	1	50	50	100
9	LC		Microprocessors and Microcontrollers Lab	0	0	2	1	50	50	100
10	PROJ		Project-I	0	0	4	2	50	50	100
11	HSMC		Economics for Engineers*	2	0	0	-	30	70	100*
<b>Total</b>							<b>23</b>			<b>1000</b>

**NOTE:**

- At the end of the 6th semester, each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training center etc. and submit the typed report along with a certificate from the organization and its evaluation shall be carried out in the 7th Semester.
- Choose any one from each of the Professional Elective Course-II and III
- Choose any one from Open Elective Course-II

**PROFESSIONAL ELECTIVE- II (Semester-VI)**

Sr. No	Code	Subject	Credit
1.		Robotics and Automation	3
2.		Energy Management and Auditing	3
3.		Introduction to MEMS	3
4.		Wireless Sensor Networks	3
5.		Mobile Communications	3

**PROFESSIONAL ELECTIVE- III (Semester-VI)**

Sr. No	Code	Subject	Credit
1.		Power Plant Engineering	3
2.		Power System Protection	3
3.		Electrical and Hybrid Vehicle	3
4.		Modelling and Analysis of Electrical Machines	3
5.		Electrical Safety and Standards	3

**\*Note:** The examination of the regular students will be conducted by the concerned college/Institute internally. Each student will be required to score a minimum of 40% marks to qualify in the paper. The marks will not be included in determining the percentage of marks obtained for the award of a degree.