

**Gurugram University Scheme of Studies and Examination
Bachelor of Technology (Electronics & Communication Engineering)**

SEMESTER V

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		Computer Networks	3	0	0	3	30	70	100
2	PCC		Digital System Design	3	0	0	3	30	70	100
3	PCC		Digital Signal Processing	3	0	0	3	30	70	100
4	PCC		Wireless & Satellite Communication	3	0	0	3	30	70	100
5	PEC		Program Elective - I	3	0	0	3	30	70	100
6	OEC		Open Elective - I	3	0	0	3	30	70	100
7	LC		Computer Networks Lab	0	0	2	1	50	50	100
8	LC		Digital Signal Processing Lab	0	0	2	1	50	50	100
10	LC		Digital System Design Lab	0	0	2	1	50	50	100
11	LC		Wireless & Satellite Communication lab	0	0	2	1	50	50	100
12	PT		Practical Training-I	0	0	2	1	30	70	100
Total				28			23	410	690	1100

NOTE:

1. Choose any one from Professional Elective Course – I
2. Choose any one from Open Elective Course – I

PROFESSIONAL ELECTIVE- I (Semester-V)

Sr. No	Code	Subject	Credit
1.		Information Theory and Coding	3
2.		Antennas and Propagation	3
3.		Bio-Medical Electronics	3
4.		Introduction to MEMS	3
5.		Mobile applications development	3
6.		Analog Integrated Circuit	3

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Semester VI

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		Control System Engineering	3	0	0	3	30	70	100
2	PCC		Microwave & Radar Engineering	3	0	0	3	30	70	100
3	PEC		Program Elective - II	3	0	0	3	30	70	100
4	PEC		Program Elective - III	3	0	0	3	30	70	100
5	OEC		Open Elective - II	3	0	0	3	30	70	100
6	PCC		VLSI System Design	3	0	0	3	30	70	100
7	LC		Control System LAB	0	0	2	1	50	50	100
8	LC		Microwave & Radar Engineering Lab(P)	0	0	2	1	50	50	100
9	PROJ		Project-I	0	0	4	2	50	50	100
10	MC		Economics for Engineers	2	0	0	0	30	70	100*
Total				28			22	330	570	900

NOTE:

1. **Economics for Engineers:** 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.
2. 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 & its evaluation shall be carried out in the 7th Semester.
3. Choose any one from each Professional Elective Course – II & III
4. Choose any one from Open Elective Course – II

PROFESSIONAL ELECTIVE- II (Semester-VI)

Sr. No	Code	Subject	Credit
1.		Robotics & Automation	3
2.		Wireless Sensor Networks	3
3.		Mobile Communications	3
4.		Power Electronics	3

PROFESSIONAL ELECTIVE - III (Semester-VI)

Sr. No	Code	Subject	Credit
1.		Nano Electronics	3
2.		High Speed Electronics	3
3.		Biosensors	3
4.		Image Processing	3