

Gurugram University
Scheme of Studies and Examination
Bachelor of Technology – Semester -5

S. No.	Course Code	Course Title	Hours per week			Credits	Marks for Sessional	Marks for End Term Examination	Total
			L	T	P				
1.	PCC	Introduction to Robotics	3	0	0	3	30	70	100
2.	PCC	Sensors And Instrumentation	3	0	0	3	30	70	100
3.	PCC	CNC Machine and Metrology	3	0	0	3	30	70	100
4.	ESC	Introduction of AI & MI	3	0	0	3	30	70	100
5.	PCC	Linear Integrated Circuits and Applications	3	0	0	3	30	70	100
6.	PE	Professional Elective-I	3	0	0	3	30	70	100
7.	OE	Open Elective -1	3	0	0	3	30	70	100
8.	LC	Robotics Engineering Lab (P)	0	0	2	1	50	50	100
9.	LC	PLC –SCADA Lab	0	0	2	1	50	50	100
10.	LC	CNC Machine and Metrology LAB	0	0	2	1	50	50	100
11.	PT	Practical Training -I	0	0	2	1	30	70	100*
Total			27			25	1000		

NOTE:

1. The evaluation of Practical Training -I will be based on the seminar, viva voice, and report submitted by the students. According to performance, the students are awarded grades A, B, C, F. A student who is awarded an 'F' grade is required to repeat Practical Training.

A - Excellent; B - Good; C- Satisfactory; F - Not Satisfactory

2. Choose any one from Professional Elective Course -I and Choose any one from Open Elective Course-I

Open Elective-I

Sr. No.	Code	Subject	Credit
1		Intellectual Property Rights	3
2		Disaster Management	3
3		English for Professionals	3
4		Managing Innovation & Entrepreneurship	3

Professional Elective-I

Sr. No.	Code	Subject	Credit
1		Industrial Automation	3
2		Maintenance and Safety Engineering	3
3		Augmented Reality and Virtual Reality	3
4		Mechatronics	3

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Bachelor of Technology – Semester -6

S. No	Course Code	code	Course Title	Hours per week			Credits	Marks for Sessional	Marks for End Term Examination	Total
				L	T	P				
1	PCC		Microprocessors And Microcontrollers	3	0	0	3	30	70	100
2	PCC		Automation System Design	3	0	0	3	30	70	100
3	PCC		Hydraulic & Pneumatics	3	0	0	3	30	70	100
4	PEC		Professional Elective - II	3	0	0	3	30	70	100
5	PEC		Professional Elective -III	3	0	0	3	30	70	100
6	OE		Open Elective - II	3	0	0	2	30	70	100
7	LC		Microprocessors And Microcontrollers Lab	0	0	2	1	50	50	100
8	LC		Hydraulic and Pneumatics Lab	0	0	2	1	50	50	100
9	LC		Project-I	0	0	4	2	50	50	100
10	MC		Economics for Engineers*	0	0	2	0	30	70	100*
Total				26			21	900		

NOTE:

Economics for Engineers*: Non-credit mandatory course, students have to attain pass marks (40%)

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. However, these marks will be shown in the detailed marks certificate of the students.

Choose any one from Professional Elective Course –II, Professional Elective -III and Choose any one from Open Elective Course-II

Open Elective-II

Sr. No	Code	Subject	Credit
1.		Computer Network & Internet of Things	3
2.		Operations Research	3
3.		Biosensors	3
4.		Image Processing	3
5.		Information Theory and Coding	3

Professional Elective-II

Sr. No.	Code	Subject	Credit
1		Lean Manufacturing	3
2		Software Engineering	3
3		Solar Energy Engineering	3
4		Wireless sensor networks	3

Professional Elective-III

Sr. No.	Code	Subject	Credit
1		Additive Manufacturing	3
2		Finite Element Method	3
3		System Modelling and Simulation	3
4		Industrial Robotics	3