

Gurugram University Gurugram
Curriculum for UG Degree
Course
in
ROBOTICS AND AUTOMATION
(Engineering & Technology)

Gurugram University - Gurugram

GENERAL COURSE STRUCTURE & CREDIT DISTRIBUTION

STRUCTURE OF UNDERGRADUATE ENGINEERING PROGRAM

S. No.	Category	Breakup of Credits
1	Humanities and Social Sciences including Management courses	11
2	Basic Science courses	22
3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc.	33
4	Professional core courses	59
5	Professional Elective courses relevant to chosen specialization/branch	12
6	Open subjects – Electives from other technical and /or emerging subjects	12
7	Project work, seminar and internship in industry or elsewhere	16
8	Mandatory Courses [Induction training, Sports, Indian Constitution, Scientific & Technical writing Skills, Practical Training-I, Economics	Non-credit
Total		165

SEMESTER WISE SUMMARY OF THE PROGRAM

S. No.	Semester	No. of Contact Hours	Marks	Credits
1.	I	24+2*	900	19.5
2.	II	27	800	22.5
3.	III	28	1000	22
4.	IV	26	900	21
5.	V	27	1000	25
6.	VI	21	900	21
7.	VII	25	800	20
8.	VIII	22	500	14
	Total	200	6800	165

Semester VII

S. No	Course Code	Course Title	Hours per week			Credits	Marks for Sessional	Marks for End Term Examination	Total
			L	T	P				
1		Field and Service Robotics	3	1	0	3	30	70	100
2		Organizational Behavior	3	1	0	3	30	70	100
3		Open Elective II	3	1	0	3	30	70	100
4		Open Elective -III	3	1	0	3	30	70	100
5		Professional Elective IV	3	1	0	3	30	70	100
6		Practical Training _II	0	0	2	1	50	50	100
7		Project II	0	0	8	4	100	100	200
Total						20			800

NOTE:

3. Choose any one from Professional Elective Course-IV
4. Choose any one from each of the Open Elective Course-III & IV

PROFESSIONAL ELECTIVE- IV (Semester-VII)

Sr. No	Code	Subject	Credit
1		Neural Network and Deep Learning	3
2		Intelligent Instrumentation	3
3		Machine Vision System	3
4		Totally Integrated Automation	3

Bachelor of Technology Semester 8

S. No.	Category	Course Code	Course Title	Hours per week			Credits	Marks for Sessional	Marks for End Term Examination	Total
				L	T	P				
1	ESC		MOOC-1 (Essential)	3	0	0	3	25	75	100
	ESC		MOOC-2 (Essential)	3	0	0	3	25	75	100
	PROJ		Project-III/Internship	0	0	16	8	150	150	300
Total							14			500