

Gurugram University Gurugram
Curriculum for UG Degree
Course
in
Mechanical Engineering

Gurugram University Gurugram

GENERAL COURSE STRUCTURE and CREDIT DISTRIBUTION

STRUCTURE OF UNDERGRADUATE ENGINEERING PROGRAM

S.No.	Category	Breakup of Credits (Total 158)
1	Humanities and Social Sciences including Management courses	11
2	Basic Science courses	20
3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc	34
4	Professional core courses	61
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 [Environmental Sciences, Induction training, Indian Constitution, Economics for Engineers]	Non-credit
9	Total	166

SEMESTER WISE SUMMARY OF THE PROGRAM

S.No.	Semester	No. of Contact Hours	Marks	Credits
1.	I	24	900	19.5
2.	II	27	800	22.5
3.	III	32	900	21
4.	IV	34	1000	22
5.	V	28	1000	22
6.	VI	33	1000	24
7.	VII	25	900	21
8.	VIII	5	500	14
	Total	208	7000	166

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
OEC	Open Elective courses
LC	Laboratory course

- CO2. Undertake problem identification, formulation and solution.
 CO3. Design engineering solutions to complex problems utilising a systems approach.
 CO4. Conduct an engineering project.
 CO5. Communicate with engineers and the community at large in written and oral forms.
 CO6. Demonstrate the knowledge, skills and attitudes of a professional engineer.

Semester 7

S. No.	Category	Code	Course Title	Hours per week			Credits	Marks for Sessional	Marks for End Term Examination	Total
				L	T	P				
1	PCC		Non-Conventional Energy Resources	3	1	0	3	30	70	100
2	PCC		Refrigeration And Air Conditioning	3	0	0	3	30	70	100
3	OEC		Open Elective-III	3	0	0	3	30	70	100
4	OEC		Open Elective-IV	3	0	0	3	30	70	100
5	PEC		Professional Elective-IV	3	1	0	3	30	70	100
6	LC		Refrigeration And Air Conditioning_Lab	0	0	2	1	50	50	100
7	PROJ-II		Project-II	0	0	2	2	100	100	200
Total							18			800

NOTE:

1. Choose any one from Professional Elective Course-IV
2. Choose any one from each of the Open Elective Course-III and IV

Professional Elective IV

Sr. No.	Code	Subject	Credit
1		Composite Materials	3
2		Gas Dynamics and Turbo machine	3
3		Non-Destructive Evaluation and Testing	3
4		Computational Fluid Dynamics	3

Gurugram University Scheme of Studies and Examination
Bachelor of Technology Semester 8

S. No .	Category	Course Code	Course Title	Hours per week			Credits	Marks for Session al	Marks for End Term Examination	Total
				L	T	P				
1	Elective		MOOC1	3	0	0	3	30	70	100
2	Elective		MOOC2	3	0	0	3	30	70	100
3	PROJECT		Industrial Project/ Project III	0	0	16	8	150	150	300
Total							16			500