

DEPARTMENT OF MECHANICAL ENGINEERING
B.Tech Course Structure (R23 Regulation)

I B.Tech (I Sem)

Branch/Specialization: MECHANICAL ENGINEERING

S.No.	Course Code	Name of the Course	Contact Hours per Week			Credits
			L	T	P	
1	HS101	Matrices and Calculus	3	1	0	4
2	HS103	Applied Physics	3	1	0	4
3	ES106	Programming for Problem Solving*	2	0	4	4
4	ES108	Computer Aided Engineering Graphics	1	0	4	3
5	ES109	Elements of Mechanical Engineering	0	0	2	1
6	HS104	Applied Physics Lab	0	0	3	1.5
7	ES114	Engineering Workshop	1	0	3	2.5
8	MC101	Environmental Science	1	0	0	0
Total			11	2	16	20

L: Lecture Hour

T: Tutorial Hour

P: Lab/Practice Hour

***Integrated Course (Theory & Lab)**

I B.Tech (II Sem)

Branch/Specialization: MECHANICAL ENGINEERING

S. No.	Course Code	Name of the Course	Contact Hours per Week			Credits
			L	T	P	
1	HS102	Multivariable and Vector Calculus	3	1	0	4
2	HS105	Engineering Chemistry	3	1	0	4
3	HS107	English for Skill Enhancement	2	0	0	2
4	ES107	Python Programming*	2	0	2	3
5	ES110	Engineering Mechanics	2	1	0	3
6	HS106	Engineering Chemistry Lab	0	0	2	1
7	HS108	English Language and Communication Skills Lab	0	0	2	1
8	ES116	Fuels & Lubricants Lab	0	0	2	1
9	MC102	Morals and Ethics	1	0	0	0
Total			13	3	8	19

L: Lecture Hour

T: Tutorial Hour

P: Lab/Practice Hour

***Integrated Course (Theory & Lab)**

II B.Tech (I Sem)**Branch/Specialization: MECHANICAL ENGINEERING**

S. No.	Course Code	Name of the Course	Contact Hours per Week			Credits
			L	T	P	
1	HS203	Probability, Statistics and Complex Variables	3	1	0	4
2	ME201	Mechanics of Solids	3	0	0	3
3	ME202	Metallurgy & Material Science	3	0	0	3
4	ME204	Production Technology	3	0	0	3
5	ME206	Engineering Thermodynamics	3	0	0	3
6	ME207	Engineering Materials	2	0	0	2
7	ME203	Material Science & Mechanics of Solids Lab	0	0	2	1
8	ME205	Production Technology Lab	0	0	2	1
9	ME208	Computer Aided Machine Drawing	0	0	2	1
10	MC201	Constitution of India	1	0	0	0
Total			18	1	6	21

L: Lecture Hour**T: Tutorial Hour****P: Lab/Practice Hour****II B.Tech (II Sem)****Branch/Specialization: MECHANICAL ENGINEERING**

S. No.	Course Code	Name of the Course	Contact Hours per Week			Credits
			L	T	P	
1	ES201	Basic Electrical and Electronics Engineering	3	0	0	3
2	HS207	Business Economics & Financial Analysis	3	0	0	3
3	ME209	Kinematics of Machinery	3	0	0	3
4	ME210	Fluid Mechanics & Hydraulic Machines	3	0	0	3
5	ME212	IC Engines & Gas Turbines	3	0	0	3
6	ES202	Basic Electrical and Electronics Engineering Lab	0	0	2	1
7	HS206	Verbal Communication and Soft Skill Lab	0	0	2	1
8	ME211	Fluid Mechanics & Hydraulic Machines Lab	0	0	2	1
9	ME213	Real time Research Project /Field-Based Project	0	0	4	2
10	MC202	Gender Sensitization Lab	0	0	2	0
Total			15	0	12	20

L: Lecture Hour**T: Tutorial Hour****P: Lab/Practice Hour**