

Department of Mechanical Engineering
B.Tech. (Mechanical Engg.) Scheme

Semester III

S.No.	Course Code	Course Name	Category	Type	Credit	L-T-P
1	MET-201	Engineering Thermodynamics	PC	Theory	4	3-1-0
2	MET-202	Fluid Mechanics & Machines	PC	Theory	4	3-1-0
3	MET-203	Engineering Mechanics	PC	Theory	4	3-1-0
4	MET-204	Casting, Forming and Welding	PC	Theory	3	3-0-0
5	MET-205	Engineering Mathematics-III	PC	Theory	3	2-1-0
6	MET-206	Material Science	PC	Theory	2	2-0-0
7	MEP-207	Mechanical Engg. Drawing	PC	Lab	2	0-0-3
8	MEP-208	Casting, Forming and Welding Lab	PC	Lab	1	0-0-2
9	MEP-209	Fluid Mechanics Lab	PC	Lab	1	0-0-2
10	MEP-211	Material Testing Lab	PC	Lab	1	0-0-2

Semester IV

S.No.	Course Code	Course Name	Category	Type	Credit	L-T-P
1	MET-221	Heat Transfer	PC	Theory	3	2-1-0
2	MET-222	Kinematics & Dynamics of Machines	PC	Theory	4	3-1-0
3	MET-223	Industrial Engineering	PC	Theory	3	2-1-0
4	MET-224	IC Engines	PC	Theory	3	3-0-0
5	MET-225	Machining Science and Machine Tools	PC	Theory	4	3-1-0
6	MET-226	Mechanics of Solids	PC	Theory	4	3-1-0
7	MEP-227	Heat Transfer lab	PC	Lab	1	0-0-2
8	MEP-228	Dynamics of Machine Lab	PC	Lab	1	0-0-2
9	MEP-229	Machining Science & Machine Tools Lab	PC	Lab	1	0-0-2
10	MEP-230	IC Engines Lab	PC	Lab	1	0-0-2

Semester V

S.No.	Course Code	Course Name	Category	Type	Credit	L-T-P
1	MET-301	Automobile Engineering	PC	Theory	3	3-0-0
2	MET-302	Turbo Machines	PC	Theory	4	3-1-0
3	MET-303	Design of Machine Elements	PC	Theory	3	3-0-0
4	MET-304	Operation & Planning Control	PC	Theory	3	2-1-0
5	MET-305	Mechanical Measurement & Control	PC	Theory	4	3-1-0
6	MET-306	Operations Research	PC	Theory	3	2-1-0
7	MEP-307	Machine Design Lab	PC	Lab	2	0-0-4
8	MEP-308	Automobile Lab	PC	Lab	1	0-0-2
9	MEP-309	Mechanical Measurement & Control	PC	Lab	1	0-0-2

Semester VI

S.No.	Course Code	Course Name	Category	Type	Credit	L-T-P
1	MET-321	Mechanical Vibrations	PC	Theory	3	2-1-0
2	MET-322	Computer Integrated Manufacturing	PC	Theory	3	2-1-0
3	MET-323	Product Design & Development	PC	Theory	3	2-1-0
4	MET-324	Advanced Manufacturing Processes	PC	Theory	3	2-1-0
5	MET-325	Refrigeration and Air Conditioning	PC	Theory	3	2-1-0
6	MET-326	Total Quality Management	PC	Theory	3	2-1-0
7	MET-327	Optimization Methods in Engg. Design	PC	Theory	3	3-0-0
8	MEP-328	Modeling & Simulation Lab	PC	Lab	1	0-0-2
9	MEP-329	Vibrations Lab	PC	Lab	1	0-0-2
10	MEP-330	Refrigeration and Air Conditioning lab	PC	Lab	1	0-0-2

Semester VII

S.No.	Course Code	Course Name	Category	Type	Credit	L-T-P
1	ME-308	Industrial Training & Seminar	PC	Theory	4	0-0-8
2	ME-401	Management*	PC	Theory	3	3-0-0
3		Open Elective I	OE	Theory	4	3-1-0
4		Open Elective II	OE	Theory	4	3-1-0
5	ME-314	Power Plant Engineering	PE	Theory	4	3-1-0
6	ME-411	Air Conditioning System Design	PE	Theory	4	3-1-0
7	ME-404	Gas Dynamics	AC	Theory	4	3-1-0
8	ME-280	Renewable Energy Sources	AC	Theory	4	3-1-0
9	ME-417	Project management	PE	Theory	4	3-1-0
10		Lean Manufacturing	PE	Theory	4	3-1-0
11	ME-422	Supply Chain Management	PE	Theory	4	3-1-0
12		Total productive Maintenance	PE	Theory	4	3-1-0
13	ME-405	Finite Element Methods	PE	Theory	4	3-1-0
14	ME-414	Computer Aided Design	PE	Theory	4	3-1-0
15	ME-416	Design of Mechanisms	PE	Theory	4	3-1-0
16		Advanced Metal Forming	PE	Theory	4	3-1-0
17		Design for manufacturing	PE	Theory	4	3-1-0
18		Product Engineering	PE	Theory	4	3-1-0

Semester VIII

S.No.	Course Code	Course Name	Category	Type	Credit	L-T-P
1		Management*	PC	Theory	3	3-0-0
2		Major Project	Project	Theory	12	0-0-0
3	ME-412	Robotics Engineering	AEC	Theory	4	3-1-0
4	MET-425	Tool Engineering	AEC	Theory	4	3-1-0
5	MET-426	Mechatronic Design	AEC	Theory	4	3-1-0
6	MET-427	Composite Material Manufacturing	AEC	Theory	4	3-1-0
7	MET-428	Six Sigma	AEC	Theory	4	3-1-0
8	MET-429	Special Course in Manufacturing	AEC	Theory	4	3-1-0
9		Smart Materials	AEC	Theory	4	3-1-0
10	MET-430	Composite Materials & Mechanics	AEC	Theory	4	3-1-0
11		Fracture Mechanics	PE	Theory	4	3-1-0
12		Open Elective III	OE	Theory	4	3-1-0
13		Open Elective IV	OE	Theory	3	3-0-0