

## Mechanical Engineering

### First/Second Semester of 1<sup>st</sup> year (assigned to Mech. Engg Deptt.)

S. No.	Course Code	Course Name	L	T	P	Total	Credit
1	TAN 102	Engineering Graphics (Common to all branches)	2	0	4	6	4
2	TAN 103	Introduction to Engg. Design (Common to all branches)	3	0	2	5	4
3	ENN 102	Unified Mechanical Engineering (for Electrical science stream)	3	1	0	4	4

1<sup>st</sup> Semester: TAN 102 for Mechanical Science stream & TA 103 for Electrical Science Stream

1<sup>st</sup> Semester: ENN 102 for Electrical Science Stream

2<sup>nd</sup> semester: TAN 102 for Electrical Science Stream & TA 103 for Mechanical Science stream

### B.E. 2<sup>nd</sup> Year I<sup>st</sup> semester (Mechanical)

S. No.	Course Code	Course name	L	T	P	Total	Credit
1.	CH 201(H)	Chemistry – I	4	0	0	4	4
2.	ENN 201	Solid Mechanics (EN-I)	4	0	0	4	4
3.	ME 211(H)	Manufacturing Practice (DC-1)	4	0	0	4	4
4.	ME 212(H)	Kinematics of Machines (DC-2)	4	0	0	4	4
5.	ME 213(H)	Thermal – I (DC-3)	4	0	0	4	4
6.	CH 202	Chemistry Lab.	0	0	3	3	2
7.	ENN 202	Fluid Mechanics (EN-II)	4	0	0	4	4
		Total	24	0	3	27	26

### B.E. 2<sup>nd</sup> Year 2<sup>nd</sup> semester (Mechanical)

S. No.	Course Code	Course Name	L	T	P	Total	Credit	Pre-requisite
1.	MA 201 (H)	Maths-III	4	0	0	4	4	
2.	PY 201 (H)	Physics-II	4	0	0	4	4	PY 101(H)
3.	ME 214(H)	Thermal – II (DC-4)	4	0	0	4	4	ME 203(H)
4.	ME 215(H)	Dynamics of Machines (DC-5)	4	0	0	4	4	ME 202(H)
5.	ME 216(H)	Machine Design & Drawing (DC-6)	4	0	0	4	4	--
6.	ME 217(H)	Advance Solid Mechanics (DC-7)	4	0	0	4	4	EN 201

7.	PY 202	Physics Lab.	0	0	3	3	2	---
8.	ME 261	Thermal Lab. (Departmental Lab.-I)	0	0	3	3	2	---
		Total	24	0	6	30	28	

**B.E. 3<sup>rd</sup> Year I<sup>st</sup> semester (Mechanical)**

S. No.	Course Code	Course Name	L	T	P	Total	Credit	Pre-requisite
1.		Humanities-II	3	0	0	3	3	
2.		Elective – I	4	0	0	4	4	-
3.	ME 311(H)	Design of Machine Elements - II (DC-8)	4	0	0	4	4	ME 206(H)
4.	ME 312(H)	Refrigeration & Air Conditioning (DC-9)	4	0	0	4	4	ME 203(H)
5.	ME 313(H)	Production Engineering (DC-10)	4	0	0	4	4	-
6.	ME 314(H)	Heat Transfer (DC-11)	4	0	0	4	4	-
7.	ME 361	Strength of Materials Lab. (Deptt. Lab.-II)	0	0	3	3	2	
8.	ME 362	Theory of Machines (Deptt. Lab-III)	0	0	3	3	2	
		Total	23	0	6	29	27	

**List of Elective –I**

S. No.	Course Code	Course Name	L	T	P	Total	Credit
1.	ME 371	Optimization in Engineering Design	4	0	0	4	4
2.	ME 372	Maintenance Engineering	4	0	0	4	4
3.	ME 373	Internal Combustion Engines	4	0	0	4	4
4.	ME 374	Advanced Fluid Mechanics	4	0	0	4	4
5.	ME 375	Production Planning & Control	4	0	0	4	4
6.	ME 376	Operations Research	4	0	0	4	4
7.	ME 377	Materials and Heat Treatment	4	0	0	4	4

**List of Humanities - II**

1	HU301 (H)	Management Concept & Practices	3	0	0	3	3
2	HU302(H)	Entrepreneurship	3	0	0	3	3

**B.E. 3<sup>rd</sup> Year 2<sup>nd</sup> semester (Mechanical)**

S. No.	Course Code	Course Name	L	T	P	Total	Credit
1.	ME 397	Internship Semester					24

**B.E. 4<sup>th</sup> Year 1<sup>st</sup> semester (Mechanical)**

S. No.	Course Code	Course Name	L	T	P	Total	Credit
1.		Open Elective	4	0	0	4	4
2.		Elective-II	4	0	0	4	4
3.	ME 421 (H)	Mechanical Vibrations (DC-12)	4	0	0	4	4
4.	ME 422(H)	Production & Operation Management (DC-13)	4	0	0	4	4
5.	ME 461	Heat Transfer (Deptt. Lab-IV)	0	0	3	3	2
6.	ME 462	Refrigeration & Air Conditioning (Deptt. Lab.-V)	0	0	3	3	2
7.	ME 497	Capstone Project-I	0	0	8	8	4
		Total	16	0	14	30	24

**List of Elective-II**

S. No.	Course Code	Course Name	L	T	P	Total	Credit
1.	ME 471	Advance Mechanisms	4	0	0	4	4
2.	ME 472	Tribology & Lubrication	4	0	0	4	4
3.	ME 473	Automobile Engg.	4	0	0	4	4
4.	ME 474	Computational Fluid Dynamics	4	0	0	4	4
5.	ME 475	Machine Tool Design	4	0	0	4	4
6.	ME 476	Work Study & Ergonomics	4	0	0	4	4
7.	ME 477	Mechanical Measurement and Metrology	4	0	0	4	4

**B.E. 4<sup>th</sup> Year 2<sup>nd</sup> semester (Mechanical)**

S. No.	Course Code	Course Name	L	T	P	Total	Credit
1.		Elective-III	4	0	0	4	4
2.		Humanities-III	4	0	0	4	4
3.	ME 424(H)	Energy Conversion (DC-14)	4	0	0	4	4
4.	ME 425(H)	CADD & M (DC-15)	4	0	0	4	4
5.	ME 463	Manufacturing & CAD Lab., (Deptt. Lab-VI)	0	0	3	4	2

6.	ME 464	Fluid Machinery & Vibrations, (Deptt. Lab.-VII)	0	0	3	4	2
7.	ME 499	Capstone Project-II	0	0	8	8	4
		Total	16	0	14	30	24

#### List of Elective-III

S. No.	Course Code	Course Name	L	T	P	Total	Credit
1.	ME 478	Finite Element Method	4	0	0	4	4
2.	ME 479	Experimental Stress Analysis	4	0	0	4	4
3.	ME 480	Renewable Energy Sources	4	0	0	4	4
4.	ME 481	Power Plant Engineering	4	0	0	4	4
5.	ME 482	Welding Engg.	4	0	0	4	4
6.	ME 483	Metal Forming.	4	0	0	4	4

#### List of Humanities - III

1	HU404 (H)	Corporate Finance	4	0	0	4	4
2	HU402(H)	Business Environment & Industrial Legislation	4	0	0	4	4