

5yProposed Course Structure of B.Tech in Mechanical Engineering

(For the entry batch of 2018-19)

Semester III

Sl. No.	Category	Subject Code	Course Title	Hours per week			Credit
				L	T	P	
1	Professional Core Course	ME 201	Basic Thermodynamics	3	1	0	4
2	Basic Science course	MA 103	Mathematics III	3	1	0	4
3	Professional Core Course	ME 202	Theory of Machines	3	1	0	4
4	Professional Core Course	ME 203	Fluid Mechanics - I	3	1	0	4
5	Professional Core Course	ME 204	Manufacturing Process	3	0	0	3
6	Professional Core Course	ME 205	Material Science	3	0	0	3
7	Professional Core Laboratory	ME 211	Machine Drawing Lab	0	0	3	2
8	Professional Core Laboratory	ME 212	Manufacturing Lab	0	0	3	2
9	Professional Core Laboratory	ME 213	Thermo-Fluid Lab - I	0	0	3	2

TOTAL CREDIT (Semester III) 28

Semester IV

Sl. No.	Category	Subject Code	Course Title	Hours per week			Credit
				L	T	P	
1	Professional Core Course	ME 206	Applied Thermodynamics	3	1	0	4
2	Professional Core Course	ME 207	Fluid Mechanics – II	3	1	0	4

3	Professional Core Course	ME 208	Mechanics of Solids	3	1	0	4
4	Professional Core Course	ME 209	Instrumentation and Measurement	3	0	0	3
5	Professional Core Course	ME 210	Machining and Machine Tools	3	0	0	3
6	Engineering Science Courses		Energy Science and Technology	3	0	0	3
7	Professional Core Laboratory	ME 214	Material Testing Lab	0	0	3	2
8	Professional Core Laboratory	ME 215	Instrumentation and Measurement Lab	0	0	3	2
9	Professional Core Laboratory	ME 216	Thermo-Fluid Lab - II	0	0	3	2

TOTAL CREDIT (Semester IV) 27

Second Year Total Credit – 55

Semester V

Sl. No.	Category	Subject Code	Course Title	Hours per week			Credit
				L	T	P	
1	Professional Core Course	ME 301	Heat Transfer	3	1	0	4
2	Professional Core Course	ME 302	Machine Design - I	3	1	0	4
3	Professional Core Course	ME 303	Turbomachinery	3	1	0	4
4	Professional Core Course	ME 304	Advanced Solid Mechanics	3	1	0	4
5	Professional Core Course	ME 305	I. C. Engine	3	0	0	3

6	Professional Core Course	ME 306	Advanced Manufacturing Process	3	0	0	3
7	Professional Core Laboratory	ME 311	Fluid Machinery Lab	0	0	3	2
8	Professional Core Laboratory	ME 312	Machining Lab	0	0	3	2
9	Professional Core Laboratory	ME 313	Heat Transfer Lab	0	0	3	2

TOTAL CREDIT (Semester V) 28

Semester VI

Sl. No.	Category	Subject Code	Course Title	Hours per week			Credit
				L	T	P	
1	Professional Core Course	ME 307	Machine Design – II	3	1	0	4
2	Professional Core Course	ME 308	Automobile Engineering	3	1	0	4
3	Professional Core Course	ME 309	Power Plant Engineering	3	1	0	4
4	Professional Core Course	ME 310	Dynamics and Control of Machinery	3	1	0	4
5	Professional Core Elective	ME 3XX	Deptt. Elective - I	3	0	0	3
6	Open Elective	ME 3XX	Open Elective I	3	0	0	3
7	Professional Core Laboratory	ME 314	Automobile Lab	0	0	3	2
8	Professional Core Laboratory	ME 315	Dynamics Lab	0	0	3	2
9	Professional Core	ME 316	Machine Design Lab	0	0	3	2

	Laboratory						
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TOTAL CREDIT (Semester VI) 28

Third Year Total Credit – 56

Semester VII

Sl. No.	Category	Subject Code	Course Title	Hours per week			Credit
				L	T	P	
1	Professional Core Course	ME 401	Industrial Engineering and Operations Research	3	0	0	3
2	Professional Core Elective	ME 4XX	Deptt. Elective - II	3	1	0	4
3	Open Elective	ME 4XX	Open Elective II	3	0	0	3
4	Management	HS 4XX	Management Studies	3	0	0	3
5	Project	ME 490	Project I	0	0	6	6

TOTAL CREDIT (Semester VII) 19

Semester VIII

Sl. No.	Category	Subject Code	Course Title	Hours per week			Credit
				L	T	P	
1	Economics	HS 4XX	Engineering Economics	3	0	0	3
2	Professional Core Elective	ME 4XX	Deptt. Elective - III	3	0	0	3
3	Open Elective	ME 4XX	Open Elective III	3	0	0	3
4	Project	ME 491	Project II	0	0	6	6

TOTAL CREDIT (Semester VIII) 15

Fourth Year Total Credit – 34