

**COURSES OFFERED IN DIFFERENT TERMS FOR B. SC. ENGG.
(MECHANICAL ENGINEERING) DEGREE**

Year-1, Semester-2

Course No.	Course Name	Contact hours	Credit hours
PHY 117	Structure of Matter, Electricity and Magnetism and Modern Physics	3	3.00
CHM 115	Chemistry - I	3	3.00
MTH 125	Differential Calculus, Solid Geometry and Vectors	4	4.00
ME 101	Introduction to Mechanical Engineering	3	3.00
EEE 159	Fundamentals of Electrical Engineering	3	3.00
Total Theoretical:		16	16.00
CHM 116	Inorganic Quantitative Analysis Sessional	3	1.50
EEE 160	Fundamentals of Electrical Engineering Sessional	1.5	0.75
SHOP 160	Foundry and Welding Shops	1.5	0.75
PHY 120	Physics Sessional	3	1.50
Total Sessional:		9	4.5
Grand Total:		25.0	20.50

Contract hours: 25.0; Credit hours: 20.50

Year-2, Semester-1

Course No.	Course Name	Contact hours	Credit hours
CHM 117	Chemistry of Engineering Materials	3	3.00
MTH 127	Integral Calculus and Differential Equations	4	4.00
ME 171	Computer Programming Language	3	3.00
EEE 259	Electrical and Electronics Technology	4	4.00
Total Theoretical:		14	14.00
EEE 259	Electrical and Electronics Technology Sessional	3	1.50
ME172	Computer Programming Language Sessional	3	1.50
SHOP 170	Machine Shop Practice	1.5	0.75
ME 160	Mechanical Engineering Drawing - I	3	1.50
Total Sessional:		10.5	5.25
Grand Total:		24.50	19.25

Contract hours: 24.50; Credit hours: 19.25

Year-2, Semester-2

Course No.	Course Name	Contact hours	Credit hours
ME 247	Engineering Mechanics-I	3	3.00
MME 291	Metallic Materials	3	3.00
MTH 223	Vector Calculus, Matrices, Laplace Transform and Series Solution	4	4.00
ME 203	Engineering Thermodynamics	3	3.00
IPE 381	Measurement and quality Control	3	3.00
Total Theoretical:		16	16.00
MME 292	Metallic Materials Sessional	3	1.50
ME 204	Engineering Thermodynamics Sessional	1.5	0.75
IPE 382	Measurement and quality Control Sessional	1.5	0.75
ME 260	Mechanical Engineering Drawing - II	3	1.50
Total Sessional:		9.0	4.50
Grand Total:		25.0	20.50

Contract hours: 25.00; Credit hours: 20.50

Year-3, Semester-1

Course No.	Course Name	Contact hours	Credit hours
ME 321	Fluid Mechanics - I	3	3.00
ME 261	Numerical Analysis	3	3.00
ME 243	Mechanics of Solids	3	3.00
MTH 225	Complex Variables, Harmonic Analysis and Partial Differential Equations	4	4.00
ME 249	Engineering Mechanics-II	3	3.00
IPE 331	Production Process	4	4.00
Total Theoretical:		20	20.00
ME 262	Numerical Analysis Sessional	1.5	0.75
IPE 382	Measurement and quality Control Sessional	1.5	0.75
Total Sessional:		3.0	1.50
Grand Total:		23.0	21.50

Contract hours: 23.0; Credit hours: 21.50

Year-3, Semester-2

Course No.	Course Name	Contact hours	Credit hours
ME 349	Mechanics of Machinery	3.00	3.00
ME 305	Heat Transfer	3.00	3.00
ME 361	Instrumentation and Measurement	3.00	3.00
ME 323	Fluid Mechanics - II	3.00	3.00
ME 417	Internal Combustion Engines	3.00	3.00
Total Theoretical:		15	15.00
ME 326	Fluid Mechanics Sessional	1.5	0.75
ME 350	Mechanics of Machinery Sessional	3	1.50
ME 306	Heat Transfer Sessional	1.5	0.75
ME 366	Electro-Mechanical System Design and Practice	3	1.50
ME 418	Heat Engines Sessional	1.5	0.75
ME 370	Industrial Training		*
Total Sessional:		10.5	5.25
Grand Total:		25.5	20.25

Contract hours: 25.5; Credit hours: 20.25

Year-4, Semester-1

Course No.	Course Name	Contact hours	Credit hours
ME 421	Fluid Machinery	3	3.00
ME 351	Machine Design	4	4.00
IPE 431	Machine Tools	3	3.00
ME 409	Renewable Energy	3	3.00
ME 415	Refrigeration and Building Mechanical System	3	3.00
Total Theoretical:		16	16.00
ME 352	Machine Design Sessional	3	1.50
ME 422	Fluid Machinery Sessional	1.5	0.75
ME 400	Project and Thesis	6	3.00
Total Sessional:		10.5	5.25
Grand Total:		25.0	21.25

Contract hours: 25.0; Credit hours: 21.25

Year-4, Semester-2

Course No.	Course Name	Contact hours	Credit hours
ME 419	Power Plant Engineering	3	3.00
ME 425	Aerodynamics	3	3.00
ME 447	Robotics	3	3.00
ME449	Composite Materials	3	3.00
ME 467	Automobile Engineering	3	3.00
Total Theoretical:		15	15.00
ME 420	Power Plant Engineering Sessional	1.5	0.75
ME 400	Project and Thesis Sessional	6	3.00
Total Sessional:		7.5	3.75
Grand Total:		22.5	18.75

Contract hours: 22.50; Credit hours: 18.75

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