

**School Name: School of Engineering**  
**Department Name : Mechanical Engineering**  
**Programme Name: B.Tech in Mechanical Engineering**  
**Scheme: 2015-2019**

<b>SEMESTER I</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	LLL111	Basic English	0	0	4	2
2	MAT111	Matrices & Multivariable Calculus	3	1	0	4
3	PHY111	Modern Physics	3	0	0	3
4	PHY151	Physics Lab I	0	0	2	1
5	CHY111	General Chemistry	3	0	0	3
6	CHY151	Chemistry Lab I	0	0	2	1
7	GER101/FRE 101/JAP101	German/French/Japanese Language	2	0	0	2
8	HUM201	Psychology & Sociology	0	0	0	0
9	EEE101	Basic Electrical and Electronics Engineering /	3	0	0	3
10	CSE 101	Computer Programming and Problem Solving	0	0	0	0
11	EEE151	Basic Electrical and Electronics Engineering Lab /	0	0	2	1
12	CSE 151	Computer Programming and Problem Solving Lab	0	0	0	0
13	EVS 102	Environmental Science & Energy	3	0	0	3

<b>SEMESTER II</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	LLL121	English Proficiency and Aptitude Building-1	0	0	4	2
2	MAT121	Ordinary Differential Equations And Integral Transforms	3	1	0	4
3	PHY121	Condensed Matter Physics	3	0	0	3
4	PHY 141	Physics Lab II	0	0	2	1
5	CHY121	Biological Chemistry	3	0	0	3
	CHY122	Nano science and Nanotechnology				
	CHY123	Organic Chemistry				
	CHY124	Physical Chemistry				
6	CHY 141	Chemistry Lab -II	0	0	2	1
7	GER101/FRE 101/JAP101	German/French/Japanese Language	2	0	0	2
8	HUM201	Psychology & Sociology	0	0	0	0
9	EEE101	Basic Electrical and Electronics Engineering /	3	0	0	3
10	CSE 101	Computer Programming and Problem Solving	0	0	0	0
11	EEE151	Basic Electrical and Electronics Engineering Lab /	0	0	2	1
12	CSE 151	Computer Programming and Problem Solving Lab	0	0	0	0
13	EVS 102	Environmental Science & Energy	3	0	0	3
14	LLL101	Universal Human Values and Ethics	0	0	0	0
15	MEE151/	Engineering Graphics or	0	0	4	2

<b>SEMESTER III</b>						
Sl. No.	Course Code	Course Title	L	T	P	C
1	LLL211	English Proficiency and Aptitude Building-2	0	0	4	2
2	MAT211	Partial Differential Equations and Complex Analysis	3	1	0	4
3	MEE211	Engineering Mechanics	3	1	0	3
4	MEE212	Materials Engineering and Technology	3	0	0	3
5	MEE213	Engineering Thermodynamics	3	0	0	3
6	MEE214	Instrumentation and Control Engineering	3	0	0	3
7	MEE251	Advanced Engineering Graphics	0	0	4	2
8	MEE252	Manufacturing Practices	0	0	2	1
9	MEE253	Instrumentation Laboratory	0	0	2	1

<b>SEMESTER IV</b>						
Sl. No.	Course Code	Course Title	L	T	P	C
1	LLL221	English Proficiency and Aptitude Building-3	0	0	4	2
2	MAT221	Numerical Methods	3	0	0	3
3	MEE221	Fluid Mechanics	3	1	0	3
4	MEE222	Strength of Materials	3	0	0	3
5	MEE223	Kinematics of Machinery	3	0	0	3
6	MEE224	Fundamentals of Manufacturing Processes	3	0	0	3
7	MAT241	Numerical Methods Laboratory	0	0	2	1
8	MEE241	Computer Aided Machine Drawing	0	0	4	2
9	MEE242	Strength of Materials Laboratory	0	0	2	1
10	MEE243	Manufacturing Processes Laboratory	0	0	2	1

<b>SEMESTER V</b>						
Sl. No.	Course Code	Course Title	L	T	P	C
1	LLL312	English Proficiency and Aptitude Building-4	0	0	4	2
2	MAT311	Probability and Statistics	3	0	0	3
3	MEE311	Dynamics of Machinery	3	0	0	3
4	MEE312	Design of Machine Elements	3	1	0	3
5	MGT302	Industrial Economics and Management	3	0	0	3
6	MEE314	Machining Processes and Metrology	3	0	0	3
7	MEE315	Thermal Engineering Systems	3	0	0	3
8	MEE351	Dynamics of Machinery Laboratory	0	0	2	1
9	MEE353	Materials and Metrology Laboratory	0	0	2	1
10	MEE354	Thermal Engineering Laboratory	0	0	2	1

<b>SEMESTER VI</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	LLL322	Campus -to-Corporate	0	0	4	2
2	MEE321	Design of Transmission Systems	3	1	0	3
3	MEE322	Turbo-machines	3	0	0	3
4	MEE313	Heat and Mass Transfer	3	0	0	3
5		Elective-I	3	0	0	3
6		Elective-II	3	0	0	3
7		Elective-III	3	0	0	3
8	MEE341	Transmission systems Laboratory	0	0	2	1
9	MEE342	Fluid and Turbo-machinery Laboratory	0	0	2	1
10	MEE345	Technical proficiency in Mechanical Engineering-II	0	0	2	1
11	MEE352	Heat and Mass Transfer Laboratory	0	0	2	1
12	MEE344	Hardware Project	0	0	4	2

<b>SEMESTER VII</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	MEE450	Industrial Internship	0	0	0	2
2	MEE411	Operations Research	3	1	0	3
3	MEE412	Power Plant Engineering	3	0	0	3
4	MEE413	CAD/CAM	2	0	0	2
5		Elective-IV	3	0	0	3
6		Elective-V	3	0	0	3
7	MEE451	CAD/CAM Laboratory	0	0	4	2
	MEE455	Technical proficiency in Mechanical Engineering-III	0	0	2	1
8	MEE498	Project Work-1	0	0	0	5

<b>SEMESTER VIII</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	MEE499	Project Work-2	0	0	0	15

Sl. No	Course Code	Course Title	L	T	P	C
<b>Elective I</b>						
1	MEE371	Welding Engineering	3	0	0	3
2	MEE372	Composite Materials	3	0	0	3
3	MEE373	Internal Combustion Engines	3	0	0	3
4	MEE374	Fluid Power Systems	3	0	0	3
5	MEE375	Gas Dynamics and Jet Propulsion	3	0	0	3
<b>Elective II</b>						
6	MEE376	Tool Design	3	0	0	3
7	MEE377	Advanced Machining Processes	3	0	0	3
8	MEE378	Fuels and Combustion	3	0	0	3
9	MEE379	Surface Modification Technologies	3	0	0	3
10	MEE361	Non-Destructive Evaluation and Testing	3	0	0	3
<b>Elective III</b>						
11	MEE362	Automobile Engineering	3	0	0	3
12	MEE363	Mechanical Vibrations	3	0	0	3
13	MEE364	Mechatronics	3	0	0	3
14	MEE365	Product Design	3	0	0	3
15	MEE366	Metal Forming Theory and Practice	3	0	0	3
16	MEE367	Renewable Energy Sources	3	0	0	3
<b>Elective IV</b>						
17	MEE368	Production Planning and Control	3	0	0	3
18	MEE369	Computational Fluid Dynamics	3	0	0	3
19	MEE471	Refrigeration and Air Conditioning	3	0	0	3
20	MEE472	Nanomaterials /MEMS	3	0	0	3
21	MEE473	New Venture Planning and Management	3	0	0	3
22	MEE474	Optimization techniques in Engineering	3	0	0	3
<b>Elective V</b>						
23	MEE475	Rapid Manufacturing Technologies	3	0	0	3
24	MEE476	Finite Element Analysis	3	0	0	3
25	MEE477	Cryogenic Engineering	3	0	0	3
26	MEE478	Lean Enterprises and New Manufacturing Technology	3	0	0	3
27	MEE479	Robotics	3	0	0	3
<b>Special Elective*</b>						
28	MEE381	Study Oriented Project	3	0	0	3
29	MEE382	Laboratory Oriented Project	3	0	0	3
30	MEE383	Simulation Project	3	0	0	3
31	MEE384	Special Project	3	0	0	3