



**SCHOOL OF ENGINEERING & TECHNOLOGY**  
**PG PROGRAM: M. Tech in Mechanical Engineering**

**FIRST YEAR**

<b>PG PROGRAM: M. Tech in Mechanical Engineering Semester-I</b>						
<b>Course Code</b>	<b>Subject Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Contact Hours</b>	<b>Credits</b>
EME61101	Thermo Fluids	3	1	0	4	4
EME61103	Vibration Analysis	3	1	0	4	4
EME61105	Computer Integrated Manufacturing	3	1	0	4	4
EME61107	Elective-I	3	0	0	3	3
EME61109	Elective-II	3	0	0	3	3
EME61201	Engineering Software Laboratory	0	0	3	3	2
EME61203	Advanced Manufacturing Laboratory	0	0	3	3	2
EME61301	Seminar-I	0	3	0	3	2
<b>Total</b>		<b>15</b>	<b>6</b>	<b>6</b>	<b>27</b>	<b>24</b>

<b>PG PROGRAM: M. Tech in Mechanical Engineering Semester-II</b>						
<b>Course Code</b>	<b>Subject Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Contact Hours</b>	<b>Credits</b>
EME61102	Advanced Mechanics Of Solids	3	1	0	4	4
EME61104	Advanced Finite Element Method	3	1	0	4	4
EME61106	Advanced Thermodynamics	3	1	0	4	4
EME61108	Elective-III	3	0	0	3	3
EME61110	Elective-IV	3	0	0	3	3
EME61202	Computational Fluid Dynamics Lab	0	0	3	3	2
EME61302	Seminar-II	0	3		3	2
EME61502	Comprehensive Viva-Voce	0	0	0		2
<b>Total</b>		<b>15</b>	<b>6</b>	<b>3</b>	<b>24</b>	<b>24</b>

**Total Credits (First Year) = 48**

## SECOND YEAR

<b>PG PROGRAM: M. Tech in Mechanical Engineering</b>						
<b>Semester-III</b>						
<b>Course Code</b>	<b>Subject Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Contact Hours</b>	<b>Credits</b>
EME62401	THESIS PART - I	0	0	30	30	20

<b>PG PROGRAM: M. Tech in Mechanical Engineering</b>						
<b>Semester-IV</b>						
<b>Course Code</b>	<b>Subject Name</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Contact Hours</b>	<b>Credits</b>
EME62402	THESIS PART - II	0	0	30	30	20

**Total Credits (Second Year) = 40**

**Total Credits (Over Two Years) = 88**

### **List of Electives**

#### **Group-A (Elective I & II)**

1. EME61107      Engineering Design Optimization      (3-0-0)
2. EME61109      Mechanics of Composites      (3-0-0)
3. EME61111      Experimental Stress Analysis      (3-0-0)
4. EME61113      Vibration Control and Isolation      (3-0-0)
5. EME61115      Computational Fluid Dynamics      (3-0-0)
6. EME61117      Advanced Fluid Mechanics      (3-0-0)
7. EME61119      Gas Dynamics      (3-0-0)
8. EME61121      Emerging Trends in Manufacturing      (3-0-0)
9. EME61123      Advanced Materials and Processing      (3-0-0)
10. EME61125      Advanced Welding Processes      (3-0-0)

**Group- B (Elective III & IV)**

1. EME61108	Theory Of Elasticity	(3-0-0)
2. EME61110	Mechanism And Robot Kinematics	(3-0-0)
3. EME61112	Vibration Of Structures	(3-0-0)
4. EME61114	Heat Exchanger Design	(3-0-0)
5. EME61116	Refrigeration Systems	(3-0-0)
6. EME61118	Gas Turbines And Jet Propulsion	(3-0-0)
7. EME61120	Theory Of Machining	(3-0-0)
8. EME61122	Industrial Automation And Control	(3-0-0)
9. EME61124	Advanced Metal Casting Technology	(3-0-0)