

**Department of Mechanical Engineering**  
**Syllabus for the Degree of B.Sc Engineering**  
**Session: 2017-2018 & 2018-2019**

**Contents of the Syllabus**

**1<sup>st</sup> Semester**

Course Code	Course Title	Credits	Hours/Week
ME 111	Thermal Engineering	3	3
ME 112	Thermal Engineering Lab	1	2
Phy 131	Physics -1	3	3
Chem 131	Chemistry - 1	3	3
Chem 132	Chemistry - 1 Lab	1	3
Math 131	Math - 1	3	3
Hum 131	Sociology and Industrial Psychology	3	3
ME 152	Welding and Foundry	1	2
ME 172	Mechanical Drawing & Auto CAD	1	3
<b>Total :</b>		<b>19</b>	<b>25</b>

**2<sup>nd</sup> Semester**

Course Code	Course Title	Credits	Hours/Week
EE 131	Electrical Circuits and Machines	3	3
EE 132	Electrical Circuits and Machines Lab	1	2
Phy 133	Physics - II	3	3
Phy 134	Physics - II Lab	1	3
Chem 133	Chemistry - II	3	3
Math 133	Math - II	3	3
ME 154	Machine and Fitting Shop Lab	1	2
ME 181	Computing Basics	3	3
ME 182	Computer Programming (Lab)	2	3
<b>Total</b>		<b>20</b>	<b>25</b>



*Signature* Gouri

*Signature*

*Signature*

### 3<sup>rd</sup> Semester

Course Code	Course Title	Credits	Hours/Week
ME 211	Thermodynamics	3	3
ME 212	Thermodynamics Lab	1	2
Math 231	Statistical Analysis and Complex Variable	4	4
Hum 231	Technical English and Communication Skill	3	3
ME 231	Engineering Mechanics-1	3	3
ME 232	Engineering Mechanics -1 Lab	1	2
ME 251	Production Process	4	4
ME 252	Production Process Lab	1	2
ME 272	Auto CAD and Design Software's	1	3
<b>Total</b>		<b>21</b>	<b>26</b>

### 4<sup>th</sup> Semester

Course Code	Course Title	Credits	Hours/Week
EE 231	Electronics and Microprocessor	4	4
EE 232	Electronics and Microprocessor Lab	1	3
Hum 233	Economics	2	2
Math 233	Operational Calculus and matrix	4	4
ME 233	Engineering Mechanics-II	3	3
ME 234	Engineering Mechanics-II Lab	1	2
ME 235	Mechanics of Solids	3	3
ME 236	Mechanics of Solids Lab	1	2
ME 282	MAT LAB	1	3
<b>Total</b>		<b>20</b>	<b>26</b>













### 5<sup>th</sup> Semester

Course Code	Course Title	Credits	Hours/Week
ME 311	Conduction and Radiation	3	3
ME 312	Conduction and Radiation Lab	1	2
ME 321	Fluid Mechanics-1	3	3
ME 322	Fluid Mechanics-1 Lab	1	2
ME 331	Mechanics of Machinery and Vibration	3	3
ME 332	Mechanics of Machinery and Vibration Lab	1	3
ME 361	Measurement and Quality Control	3	3
ME 362	Measurement and Quality Control Lab	1	2
ME 381	Numerical Method in Engineering	3	3
ME 382	Numerical Method in Engineering Lab	1	3
<b>Total</b>		<b>20</b>	<b>27</b>

### 6<sup>th</sup> Semester

Course Code	Course Title	Credits	Hours/Week
ME 313	Convection and Mass Transfer	3	3
ME 314	Convection and Mass Transfer Lab	1	2
ME 323	Fluid Mechanics –II	3	3
ME 324	Fluid Mechanics –II Lab	1	2
Hum 331	Industrial Law and Accounting	3	3
ME 333	Machine Design-I	3	3
ME 334	Machine Design-1 Lab	1	2
ME 351	Engineering Metallurgy	3	3
ME 352	Engineering Metallurgy Lab	1	2
<b>Total</b>		<b>19</b>	<b>23</b>



### 7<sup>th</sup> Semester

Course Code	Course Title	Credits	Hours/Week
ME 413	Power Plant Engineering	3	3
ME 417	Refrigeration and Air Conditioning	3	3
ME 431	Machine Design –II	3	3
ME 432	Machine Design –II Lab	1	2
ME 451	Machine Tools and Tool Engineering	4	4
ME 452	Machine Tools and Tool Engineering Lab	1	2
ME 461	Production and Operations Management	3	3
ME 492	Industrial Training	1	3 Weeks Industry
ME 494	Project and Thesis	1	2
<b>Total</b>		<b>20.00</b>	<b>22</b>

### 8<sup>th</sup> Semester

Course Code	Course Title	Credits	Hours/Week
ME 411	Applied Thermodynamics	3	3
ME 412	Applied Thermodynamics Lab	1	2
ME 421	Fluid Machinery	3	3
ME 422	Fluid Machinery Lab	1	2
ME 455	Mechatronics	3	3
ME 456	Mechatronics Lab	2	4
ME 463	Industrial Management	3	3
ME 498	Project and Thesis	2	4
ME 4**	Optional	3	3
<b>Total</b>		<b>21</b>	<b>27</b>



*Signature of Gouri*

*Signature*