<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Description</th>
<th>No. of Hours</th>
<th>Units</th>
<th>Pre-requisite/</th>
<th>(Corequisite)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Lec</td>
<td>Lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Math 3</td>
<td>Differential Equations</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>Math 2</td>
</tr>
<tr>
<td>GEC-Art</td>
<td>Arts Appreciation</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CpE 211</td>
<td>Computer Fundamentals and Programming</td>
<td>0</td>
<td>6</td>
<td>2</td>
<td>Phys Lec/Lab; Math 2</td>
</tr>
<tr>
<td>Mech 211</td>
<td>Statics of Rigid Bodies</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>Phys Lec/Lab; Math 2</td>
</tr>
<tr>
<td>Thermo 1</td>
<td>Thermodynamics 1</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>Phys Lec/Lab; Math 2</td>
</tr>
<tr>
<td>Math 4</td>
<td>Engineering Data Analysis</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>Math 1</td>
</tr>
<tr>
<td>ME Shop 2</td>
<td>Machine Shop Theory</td>
<td>0</td>
<td>6</td>
<td>2</td>
<td>ME Shop 1</td>
</tr>
<tr>
<td>GEC-TCW</td>
<td>The Contemporary World</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PE 3</td>
<td>Individual/Dual Sports</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>PE 2</td>
</tr>
<tr>
<td>GEC-STS</td>
<td>Science, Technology and Society</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>23</td>
<td>12</td>
<td>27</td>
<td></td>
</tr>
</tbody>
</table>

Second Year, 2nd Semester

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Description</th>
<th>No. of Hours</th>
<th>Units</th>
<th>Pre-requisite/</th>
<th>(Corequisite)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Lec</td>
<td>Lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mech 223</td>
<td>Mechanics of Deformable Bodies</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>Mech 211</td>
</tr>
<tr>
<td>Mech 222</td>
<td>Dynamics of Rigid Bodies</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>Mech 211</td>
</tr>
<tr>
<td>ME 224 Lec</td>
<td>Materials Science &amp; Engineering for ME</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>Mech 223; Chem Lec/Lab</td>
</tr>
<tr>
<td>ME 224 Lab</td>
<td>Materials Science &amp; Engineering for ME Lab</td>
<td>0</td>
<td>3</td>
<td>1</td>
<td>Mech 223; Chem Lec/Lab</td>
</tr>
<tr>
<td>Thermo 2</td>
<td>Thermodynamics 2</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>Thermo 1</td>
</tr>
<tr>
<td>Math 5</td>
<td>Advanced Mathematics for ME</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>Math 3</td>
</tr>
<tr>
<td>EE 214 Lec</td>
<td>Basic Electrical Engineering</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>Phys Lec/Lab; Math 2</td>
</tr>
<tr>
<td>EE 214 Lab</td>
<td>Basic Electrical Engineering Lab</td>
<td>0</td>
<td>3</td>
<td>1</td>
<td>Phys Lec/Lab; Math 2</td>
</tr>
<tr>
<td>Mech 224</td>
<td>Fluid Mechanics</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>Thermo 1; (Mech 222)</td>
</tr>
<tr>
<td>ME 221</td>
<td>Heat Transfer</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>Thermo 1</td>
</tr>
<tr>
<td>PE 4</td>
<td>Team Sports and Recreation</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>PE 3</td>
</tr>
<tr>
<td>EPC</td>
<td>English proficiency Course</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>GEC-PCom</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>26</td>
<td>6</td>
<td>28</td>
<td></td>
</tr>
</tbody>
</table>

Second Year, Summer

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Description</th>
<th>No. of Hours</th>
<th>Units</th>
<th>Pre-requisite/</th>
<th>(Corequisite)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Lec</td>
<td>Lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ME 232 Lec</td>
<td>Machine Elements</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>Mech 222</td>
</tr>
<tr>
<td>ME 232 Lab</td>
<td>Machine Elements Lab</td>
<td>0</td>
<td>3</td>
<td>1</td>
<td>Mech 222</td>
</tr>
<tr>
<td>ME 233</td>
<td>Vibration Engineering</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>Math 3</td>
</tr>
<tr>
<td>Cp E 232</td>
<td>Computer Applications for ME</td>
<td>0</td>
<td>3</td>
<td>1</td>
<td>CpE 211</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4</td>
<td>6</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Third Year, 1st Semester

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Description</th>
<th>No. of Hours</th>
<th>Units</th>
<th>Pre-requisite/</th>
<th>(Corequisite)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Lec</td>
<td>Lab</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ME 314</td>
<td>Machine Design 1</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>ME 232 Lec/Lab; Mech 223</td>
</tr>
<tr>
<td>ECE 310 Lec</td>
<td>Basic Electronics</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>(EE 214 Lec/Lab)</td>
</tr>
<tr>
<td>ECE 310 Lab</td>
<td>Basic Electronics Lab</td>
<td>0</td>
<td>3</td>
<td>1</td>
<td>(EE 214 Lec/Lab)</td>
</tr>
<tr>
<td>ME Lab 1</td>
<td>Mechanical Engineering Lab 1</td>
<td>0</td>
<td>3</td>
<td>1</td>
<td>Thermo 2</td>
</tr>
<tr>
<td>ME 315</td>
<td>Refrigeration Systems</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>ME 221</td>
</tr>
<tr>
<td>Mech 315</td>
<td>Fluid Machineries</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>Mech 224</td>
</tr>
<tr>
<td>ME Elec 2</td>
<td>Mechanical Engineering Elective 2</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>3rd Year Standing</td>
</tr>
<tr>
<td>ME Elec 1</td>
<td>Mechanical Engineering Elective 1</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td>3rd Year Standing</td>
</tr>
<tr>
<td>ME 316</td>
<td>Combustion Engineering</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>Thermo 2</td>
</tr>
<tr>
<td>MR</td>
<td>Methods of Research for ME</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>Math 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>21</td>
<td>6</td>
<td>23</td>
<td></td>
</tr>
</tbody>
</table>
### Third Year, 2nd Semester

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Description</th>
<th>No. of Hours</th>
<th>Units</th>
<th>Pre-requisite/ (Corequisite)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rizal</td>
<td>Life and Works of Rizal</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>ME 326</td>
<td>Air-conditioning and Ventilation Systems</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>ME Lab 2</td>
<td>Mechanical Engineering Lab 2</td>
<td>0</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>EE 325 Lec</td>
<td>DC and AC Machinery</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>EE 325 Lab</td>
<td>DC and AC Machinery Lab</td>
<td>0</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Tech</td>
<td>Technopreneurship 101</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>ME 328 Lec</td>
<td>Power Plant Design with Renewable Energy</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>ME 329 Lab</td>
<td>Machine Design 2 Lab</td>
<td>0</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>ME 329 Lec</td>
<td>Machine Design 2</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>ME PS 1</td>
<td>ME Project Study 1</td>
<td>0</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>BES-Eeco</td>
<td>Engineering Economics</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>20</strong></td>
<td><strong>15</strong></td>
<td><strong>25</strong></td>
</tr>
</tbody>
</table>

### Third Year, Summer/Mid-Year

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Description</th>
<th>No. of Hours</th>
<th>Units</th>
<th>Pre-requisite/ (Corequisite)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 328 Lab</td>
<td>Power Plant Design with Renewable Energy Lab</td>
<td>0</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>EE 334 Lec</td>
<td>Control Engineering</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>EE 334 Lab</td>
<td>Control Engineering Lab</td>
<td>0</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>ME Laws</td>
<td>ME Laws, Ethics, Contracts, Codes &amp; Standards</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>4</strong></td>
<td><strong>6</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

### Fourth Year, 1st Semester

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Description</th>
<th>No. of Hours</th>
<th>Units</th>
<th>Pre-requisite/ (Corequisite)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 2</td>
<td>Special Topics on Steam Power Engineering</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>SP 3</td>
<td>Special Topics on Industrial Engineering</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>ME 4110 Lec</td>
<td>Industrial Plant Engineering</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>ME 4110 Lab</td>
<td>Industrial Plant Engineering Lab</td>
<td>0</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>ME 4111 Lec</td>
<td>Manufacturing &amp; Industrial Processes with Plant Visits</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>ME 4111 Lab</td>
<td>Manufacturing &amp; Industrial Processes with Plant Visits Lab</td>
<td>0</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>ME PS 2</td>
<td>ME Project Study 2</td>
<td>0</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>SP 1</td>
<td>Special Topics on Mathematics and Machine Design</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>ME Lab 3</td>
<td>Mechanical Engineering Lab 3</td>
<td>0</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>BOSH</td>
<td>Basic Occupational Safety and Health</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>FL</td>
<td>Foreign Language</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>19</strong></td>
<td><strong>15</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

### Fourth Year, 2nd Semester

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Description</th>
<th>No. of Hours</th>
<th>Units</th>
<th>Pre-requisite/ (Corequisite)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OJT</td>
<td>On-the-Job Training</td>
<td>0</td>
<td>500</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>0</strong></td>
<td><strong>500</strong></td>
<td><strong>5</strong></td>
</tr>
</tbody>
</table>

**ME Electives:**
- Solar Energy and Wind Energy Utilization
- Micro-Hydro-Electric Power