### B.E I/4 (Effective 2011-12)

<table>
<thead>
<tr>
<th>S.No</th>
<th>Service Course</th>
<th>Branch</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Workshop Practice-I</td>
<td>All Branches</td>
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</table>

### B.E.2/4 (Effective 2012-13)

<table>
<thead>
<tr>
<th>S.No</th>
<th>Service Course</th>
<th>Branch</th>
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<tbody>
<tr>
<td>1. ME 221 UE</td>
<td>Mechanical Technology (Section-B)</td>
<td>CE</td>
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</table>

### B.E.3/4 (Effective 2013-14)

<table>
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<tr>
<th>S.No</th>
<th>Service Course</th>
<th>Branch</th>
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<tbody>
<tr>
<td>1. ME 409 UE</td>
<td>Entrepreneurship</td>
<td>ECE/ECE/EEE/BME</td>
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<tr>
<td>2. ME 412 UE</td>
<td>Finite Element Analysis</td>
<td>CE/CSE/EEE/ECE/BME</td>
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### B.E.4/4 (Effective 2010-11)

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<th>S.No</th>
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<tbody>
<tr>
<td>1. ME 481 UE</td>
<td>Seminar</td>
<td>CE</td>
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<tr>
<td>2. ME 482 UE</td>
<td>Project</td>
<td>CE</td>
</tr>
</tbody>
</table>

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#### Theory Subjects

**I Semester**

1. MT 101 UE Engineering Mathematics-I
2. PH 101 UE Engineering Physics-I
3. CH 101 UE Engineering Chemistry-I
4. CS 101 UE Computer Programming and Problem Solving
5. CE 101 UE Engineering Mechanics-I
6. CE 102 UE Engineering Graphics-I
7. EG 101 UE Engineering English

**II Semester**

1. MT 151 UE Engineering Mathematics-II
2. PH 151 UE Engineering Physics-II
3. CH 151 UE Engineering Chemistry - II
4. CS 151 UE Object Oriented Programming
5. CE 155 UE Engineering Mechanics – II
6. CE 156 UE Engineering Graphics - II
7. EG 181 UE Engg. English Language Lab - II
8. PH 181 UE Engineering Physics Lab - II
9. CH 181 UE Engineering Chemistry Lab-II
10. CS 182 UE 'C' Programming Lab
11. * 181 UE Computer Drafting Lab
12. ME 183 UE Workshop Practice – II

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#### Practical

**I Semester**

1. EG 131 UE Engg. English Language Lab-I
2. PH 131 UE Engineering Physics lab-I
3. CH 131 UE Engineering Chemistry Lab- I
4. CS 131 UE 'C' Programming Lab
5. ME 131 UE Workshop Practice – I

**II Semester**

1. EG 191 UE Engg. English Language Lab - II
2. PH 191 UE Engineering Physics Lab - II
3. CH 191 UE Engineering Chemistry Lab-II
4. CS 182 UE C++ Programming Lab
5. * 181 UE Computer Drafting Lab
6. ME 183 UE Workshop Practice – II

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#### Theory Subjects

**I Semester**

1. MT 201 UE Metallurgy & Material Science
2. MT 202 UE Machine Drawing
3. ME 203 UE Thermodynamics
4. CE 222 UE Mechanics of Materials
5. EE 222 UE Electrical Circuits and Machines
6. MT 202 UE Mathematics - III

**II Semester**

1. ME 231 UE Metallurgy Lab
2. CE 241 UE Mechanics of Materials Lab

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#### Theory Subjects

**I Semester**

1. ME 301 UE Dynamics of Machines
2. ME 302 UE Design of Machine Elements
3. ME 303 UE Metal Cutting & Machine Tools
4. ME 304 UE Heat Transfer
5. ME 305 UE Metrology & Instrumentation
6. CE 151 UE Environmental Studies

**II Semester**

1. ME 331 UE Thermodynamics Lab
2. ME 332 UE Manufacturing Processes Lab

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#### Theory Subjects

**I Semester**

1. ME 351 UE Management
2. ME 352 UE Operations Research
3. ME 353 UE Automobile Engineering
4. ME 354 UE Hydraulic Machinery and Systems
5. ME 355 UE Refrigeration and Air Conditioning

**II Semester**

1. ME 401 UE Production and Operations Management
2. ME 402 UE Thermal Turbo Machines
3. ME 403 UE CAD/CAM
4. ME 404 UE Control Systems Theory
5. CM 221 UE Managerial Economics & Accountancy

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#### Practical

**I Semester**

1. ME 381 UE Metrology & Machine Tools Lab
2. ME 382 UE Hydraulic Machinery Lab
3. ME 383 UE Production Drawing
4. SI 400 UE Summer Internship (6-Weeks)

**II Semester**

1. ME 471 UE Industrial & Financial Management

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#### S.No. Service Course | Branch

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<tr>
<th>S.No.</th>
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<tbody>
<tr>
<td>1. Workshop Practice-II</td>
<td>CE</td>
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<tr>
<td>2. ME 151 UE</td>
<td>Elements of Mechanical Engg</td>
<td>EEE</td>
</tr>
<tr>
<td>1. ME 271 UE</td>
<td>Prime Movers &amp; Pumps</td>
<td>EEE</td>
</tr>
<tr>
<td>2. ME 291 UE</td>
<td>Prime Movers &amp; Pumps Lab</td>
<td>EEE</td>
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<tr>
<td>1. ME 381 UE</td>
<td>Metrology &amp; Machine Tools Lab</td>
<td>CE</td>
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<tr>
<td>2. ME 382 UE</td>
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<td>Summer Internship (6-Weeks)</td>
<td>CE</td>
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<tr>
<td>1. ME 460 UE</td>
<td>Robotics</td>
<td>CE/BME/ECE/EEE/CSE</td>
</tr>
<tr>
<td>2. ME 471 UE</td>
<td>Industrial &amp; Financial Management</td>
<td>EEE/ ECE</td>
</tr>
</tbody>
</table>
3/4 (Mech.) II-semester

**ELECTIVE-I**
1. ME 356 UE Energy Systems
2. ME 357 UE Gas Dynamics
3. ME 358 UE Mechanical Vibrations & Industrial Noise Control
4. ME 359 UE Theory of Elasticity
5. ME 360 UE Non Conventional Energy Sources
6. ME 361 UE Powder Metallurgy
7. ME 362 UE Computational Fluids Flows
8. ME 363 UE Nanomaterials and Technology
9. PH 321 UE Solid State Physics

4/4 (Mech.) II-semester

**ELECTIVE-III**
1. ME 454 UE Waste Heat Recovery & Co-Generation
2. ME 455 UE Composite Materials
3. ME 456 UE Machine Tool Engineering & Design
4. ME 466 UE Advanced Propulsion & Space Science
5. EC 465 UE Embedded System Design
6. EC 466 UE Microprocessor Applications
7. CS 459 UE Information Security
8. EE 451 UE Reliability Engineering

4/4 (Mech.) I-semester

**ELECTIVE-II**
1. ME 406 UE Design of Solar Energy Systems
2. ME 407 UE Non-conventional Methods of Machining & Forming
3. ME 408 UE Additive Manufacturing Technologies
4. ME 409 UE Entrepreneurship
5. ME 410 UE Aerodynamics Design of Thermal Turbines
6. ME 411 UE Materials Handling
7. ME 412 UE Finite Element Analysis
8. ME 413 UE Numerical Methods in Engineering
9. CS 408 UE Database Management Systems

4/4 (Mech.) II-semester

**ELECTIVE-IV**
1. ME 460 UE Robotics
2. ME 461 UE Energy Conservation & Management
3. ME 462 UE Tool Design
4. ME 465 UE Non-Destructive Testing
5. CS 458 UE Data Mining
6. LA 454 UE Intellectual Property Rights
7. BM 454 UE Bio-Electricity
8. CE 461 UE Disaster Management