# ANNA UNIVERSITY :: CHENNAI – 600 025.
## CENTRE FOR ACADEMIC COURSES
## AFFILIATED INSTITUTIONS
### Additional Subjects to be studied and exempted in respect of students originally admitted
### Regulations 2013 and Rejoined in Regulations 2017 (CBCS)

**FACULTY OF MECHANICAL ENGINEERING**
**BRANCH: B.E. Aeronautical Engineering**

| REJOINING SEMESTER | ADDITIONAL SUBJECTS | EXEMPTED SUBJECTS |
|---|---|---|
| I | NIL | NIL |
| II | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory | GE8261 Engineering Practices Laboratory |
| III | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory<br>3. GE8291 Environmental Science and Engineering | ME8381 Computer Aided Machine Drawing |
| IV | NIL | ME8381 Computer Aided Machine Drawing |
| V | NIL | NIL |
| VI | Open Elective - I | NIL |
| VII | Open Elective – I<br>AE8602 Experimental Aerodynamics<br>AE8604 Aircraft Design<br>AE8605 Experimental Stress Analysis | Professional Elective – II<br>Professional Elective – III<br>Professional Elective - V |
| VIII | AE8602 Experimental Aerodynamics<br>AE8604 Aircraft Design | Professional Elective – IV<br>Professional Elective - V |

**Note: All students who have got readmitted in R 2017 after break of study shall choose electives which they have not already studied either as a core or as an elective in their previous semesters.**

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**Additional Subjects to be studied and exempted in respect of students originally admitted Regulations 2013 and Rejoined in Regulations 2017 (CBCS)**

**FACULTY OF MECHANICAL ENGINEERING**

**BRANCH: B.E. Automobile Engineering**

| REJOINING SEMESTER | ADDITIONAL SUBJECTS | EXEMPTED SUBJECTS |
|---|---|---|
| I | NIL | NIL |
| II | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory | GE8261 Engineering Practices Laboratory |
| III | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory<br>3. GE8291 Environmental Science and Engineering | NIL |
| IV | 1. CE8395 Strength of Materials for Mechanical Engineers<br>2. AT8301 Spark Ignition Engines | 1. PR8451 Mechanics of Machines<br>2. AT8411 Automotive Components Laboratory |
| V | NIL | NIL |
| VI | Open Elective - I | NIL |
| VII | Open Elective – I<br>GE8077 Total Quality Management | Professional Elective - V |
| VIII | GE8077 Total Quality Management | Professional Elective - V |

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**Additional Subjects to be studied and exempted in respect of students originally admitted Regulations 2013 and Rejoined in Regulations 2017 (CBCS)**

**FACULTY OF MECHANICAL ENGINEERING**
**BRANCH: B.E. Marine Engineering**

| REJOINING SEMESTER | ADDITIONAL SUBJECTS | EXEMPTED SUBJECTS |
|---|---|---|
| I | NIL | NIL |
| II | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory | 1. MV8302 Basics of Marine engineering<br>2. GE8261 Engineering Practices Laboratory |
| III | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory<br>3. GE8291 Environmental Science and Engineering | 1. MV8302 Basics of Marine engineering<br>2. MV8401 Marine Engineering Thermodynamics |
| IV | 1. CE8395 Strength of Materials for Mechanical Engineers<br>2. MV8312 Strength of Materials and Applied Mechanics Laboratory | 1. MV8401 Marine Engineering Thermodynamics<br>2. MV8407 Marine Refrigeration and Air Conditioning<br>3. MV8411 Welding Techniques, Lathe and Special Machine Shop<br>4. MV8506 Seamanship, Elementary Navigation and Survival at sea |
| V | MV8403 Marine Boilers and Steam Engineering | MV8506 Seamanship, Elementary Navigation and Survival at sea |
| VI | Open Elective – I | MV8713 Measurement and Instrumentation Laboratory |
| VII | Open Elective - I | MV8713 Measurement and Instrumentation Laboratory |
| VIII | MV8703 Marine Control Engineering and Automation | MV8801 Marine Vehicles Performance |

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**Additional Subjects to be studied and exempted in respect of students originally admitted**
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**FACULTY OF MECHANICAL ENGINEERING**

**BRANCH: B.E. Mechanical Engineering**

| REJOINING SEMESTER | ADDITIONAL SUBJECTS | EXEMPTED SUBJECTS |
|---|---|---|
| I | NIL | NIL |
| II | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory | GE8261 Engineering Practices Laboratory |
| III | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory<br>3. GE8291 Environmental Science and Engineering | ME8381 Computer Aided Machine Drawing |
| IV | HS8381 Interpersonal Skills/Listening & Speaking | CE8395 Strength of Materials for Mechanical Engineers |
| V | NIL | NIL |
| VI | 1. ME8595 Thermal Engineering – II<br>2. Open Elective - I | 1. ME8693 Heat and Mass Transfer<br>2. Professional Elective – IV |
| VII | 1. ME8595 Thermal Engineering – II<br>2. Open Elective – I<br>3. ME8691 Computer Aided Design and Manufacturing<br>4. ME8694 Hydraulics and Pneumatics | 1. Professional Elective – II<br>2. Professional Elective – III<br>3. Professional Elective – IV<br>4. MG8591 Principles of Management |
| VIII | 1. ME8595 Thermal Engineering – II<br>2. ME8691 Computer Aided Design and Manufacturing<br>3. ME8694 Hydraulics and Pneumatics | 1. MG8591 Principles of Management<br>2. Professional Elective – IV |

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**Regulations 2013 and Rejoined in Regulations 2017 (CBCS)**

**FACULTY OF MECHANICAL ENGINEERING**
**BRANCH: B.E. Production Engineering**

| REJOINING SEMESTER | ADDITIONAL SUBJECTS | EXEMPTED SUBJECTS |
|---|---|---|
| I | NIL | NIL |
| II | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory | GE8261 Engineering Practices Laboratory |
| III | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory<br>3. GE8291 Environmental Science and Engineering | NIL |
| IV | CE8395 Strength of Materials for Mechanical Engineers | ME8491 Engineering Metallurgy |
| V | 1. PR8491 Computer Integrated Manufacturing<br>2. PR8411 Fluid Power Laboratory | PR8592 Welding Technology |
| VI | 1. Open Elective I<br>2. PR8491 Computer Integrated Manufacturing<br>3. PR8511 Welding and Foundry Laboratory<br>4. PR8561 Metrology Laboratory | 1. PR8602 Metal Cutting and CNC Machines<br>2. PR8612 CNC Machine Laboratory<br>3. ME8098 Quality Control and Reliability Engineering |
| VII | 1. Open Elective I<br>2. ME8692 Finite Element Analysis<br>3. ME8682 Design and Fabrication Project | ME8098 Quality Control and Reliability Engineering |
| VIII | NIL | NIL |

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**FACULTY OF MECHANICAL ENGINEERING**

**BRANCH: B.E. Materials Science and Engineering**

| REJOINING SEMESTER | ADDITIONAL SUBJECTS | EXEMPTED SUBJECTS |
|---|---|---|
| I | NIL | NIL |
| II | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory | GE8261 Engineering Practices Laboratory |
| III | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory | NIL |
| IV | NIL | NIL |
| V | ML8402 Corrosion and Surface Engineering | NIL |
| VI | 1. ML8505 Ceramics and Refractory Materials<br>2. Open Elective - I | ML8603 Welding Metallurgy |
| VII | 1. ML8505 Ceramics and Refractory Materials<br>2. Open Elective – I<br>3. ML8604 Non Destructive Materials of Evaluation | NIL |
| VIII | 1. ML8505 Ceramics and Refractory Materials | NIL |

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FACULTY OF MECHANICAL ENGINEERING

BRANCH: B.E. Manufacturing Engineering

| REJOINING SEMESTER | ADDITIONAL SUBJECTS | EXEMPTED SUBJECTS |
|---|---|---|
| I | NIL | NIL |
| II | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory | GE8261 Engineering Practices Laboratory |
| III | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory<br>3. GE8291 Environmental Science and Engineering | ME8381 Computer Aided Machine Drawing |
| IV | NIL | PR8451 Mechanics of Machines |
| V | HS8381 Interpersonal Skills/Listening & Speaking | 1. MF8502 Machine Design<br>2. MF8503 Engineering Metrology |
| VI | Open Elective - I | 1. Professional Elective I<br>2. MF8791 Metal Forming Technology |
| VII | Open Elective – I<br>MF8691 Flexible Manufacturing Systems<br>ME8791 Mechatronics<br>ME8781 Mechatronics Laboratory | 1. MF8701 Computer Integrated Production Management System<br>2. MF8791 Metal Forming Technology<br>3. Professional Elective II |
| VIII | NIL | NIL |

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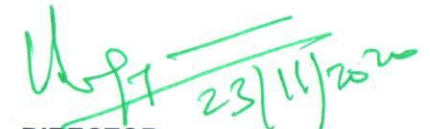
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**Additional Subjects to be studied and exempted in respect of students originally admitted**
**Regulations 2013 and Rejoined in Regulations 2017 (CBCS)**

**FACULTY OF MECHANICAL ENGINEERING**

**BRANCH: B.E. Industrial Engineering and Management**

| REJOINING SEMESTER | ADDITIONAL SUBJECTS | EXEMPTED SUBJECTS |
|---|---|---|
| I | NIL | NIL |
| II | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory | GE8261 Engineering Practices Laboratory |
| III | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory<br>3. GE8291 Environmental Science and Engineering | NIL |
| IV | HS8381 Interpersonal Skills/Listening & Speaking | NIL |
| V | NIL | MG8591 Principles of Management |
| VI | Open Elective I | 1. Professional Elective III<br>2. MG8891 Human Resource Management |
| VII | 1. IM8691 Value Engineering and Project Management<br>2. Open Elective I | 1. Professional Elective III<br>2. Professional Elective IV<br>3. MG8891 Human Resource Management |
| VIII | NIL | MG8891 Human Resource Management |

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**FACULTY OF MECHANICAL ENGINEERING**
**BRANCH: B.E. Mechatronics Engineering**

| REJOINING SEMESTER | ADDITIONAL SUBJECTS | EXEMPTED SUBJECTS |
|---|---|---|
| I | NIL | NIL |
| II | 1. GE8151 Problem Solving and Python Programming <br> 2. GE8161 Problem Solving and Python Programming Laboratory | 1. GE8261 Engineering Practices Laboratory |
| III | 1. GE8151 Problem Solving and Python Programming <br> 2. GE8161 Problem Solving and Python Programming Laboratory <br> 3. GE8291 Environmental Science and Engineering | NIL |
| IV | 1. MT8302 Analog Devices and Circuits <br> 2. HS8381 Interpersonal Skills/Listening & Speaking | 1. ME8492 Kinematics of Machinery <br> 2. ME8381 Computer Aided Machine Drawing |
| V | 1. MT8302 Analog Devices and Circuits <br> 2. MT8401 Thermodynamics and Heat Transfer <br> 3. MT8411 Microprocessor and Microcontrollers Laboratory | 1. ME8594 Dynamics of Machines <br> 2. ME8481 Dynamics Laboratory <br> 3. EC8391 Control Systems Engineering |
| VI | 1. MT8302 Analog Devices and Circuits <br> 2. MT8411 Microprocessor and Microcontrollers Laboratory <br> 3. Open Elective I | ME8593 Design of Machine Elements |
| VII | 1. MT8602 Industrial Automation <br> 2. MT8612 Industrial Automation Laboratory <br> 3. ME8682 Design and Fabrication Project <br> 4. Open Elective I | Professional Elective – II |
| VIII | 1. MT8602 Industrial Automation <br> 2. MT8612 Industrial Automation Laboratory <br> 3. ME8691 Computer Aided Design and Manufacturing <br> 4. MT8791 Embedded System Design | Professional Elective – IV <br> Professional Elective – V |

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**Additional Subjects to be studied and exempted in respect of students originally admitted
Regulations 2013 and Rejoined in Regulations 2017 (CBCS)**

FACULTY OF MECHANICAL ENGINEERING

BRANCH: B.E. Mechanical Engineering (Sandwich)

| REJOINING SEMESTER | ADDITIONAL SUBJECTS | EXEMPTED SUBJECTS |
|---|---|---|
| I | NIL | NIL |
| II | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory | GE8261 Engineering Practices Laboratory |
| III | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory<br>3. GE8291 Environmental Science and Engineering | NIL |
| IV | 1. ME8351 Manufacturing Technology – I<br>2. ME8361 Manufacturing Technology Laboratory – I | NIL |
| V | 1. ME8351 Manufacturing Technology – I<br>2. ME8361 Manufacturing Technology Laboratory – I<br>3. ME8451 Manufacturing Technology – II<br>4. ME8462 Manufacturing Technology Laboratory – II | 1. MS8501 Industrial Metallurgy<br>2. PR8481 Metallurgy Laboratory |
| VI | 1. ME8451 Manufacturing Technology – II<br>2. ME8462 Manufacturing Technology Laboratory – II<br>3. ME8593 Design of Machine Elements | NIL |
| VII | 1. ME8651 Design of Transmission Systems<br>2. ME8694 Hydraulics and Pneumatics<br>3. ME8592 CAD/CAM | MG8591 Principles of Management |
| VIII | 1. ME8694 Hydraulics and Pneumatics<br>2. ME8592 CAD/CAM<br>3. ME8595 Thermal Engineering – II<br>4. MS8712 Thermal Engineering Laboratory – II | 1. ME8693 Heat and Mass Transfer<br>2. MS8811 Heat and Mass Transfer Laboratory<br>3. MG8591 Principles of Management |

| | | | |
|---|---|---|---|
| IX | 1. ME8694 Hydraulics and Pneumatics<br>2. ME8592 CAD/CAM<br>3. ME8595 Thermal Engineering – II<br>4. MS8712 Thermal Engineering Laboratory – II | 1. MG8591 Principles of Management<br>2. Professional Elective IV | |
| X | 1. ME8694 Hydraulics and Pneumatics<br>2. ME8592 CAD/CAM<br>3. ME8595 Thermal Engineering – II<br>4. MS8712 Thermal Engineering Laboratory – II | 1. MG8591 Principles of Management<br>2. Professional Elective VI | |

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FACULTY OF MECHANICAL ENGINEERING
BRANCH: B.E. Industrial Engineering

| REJOINING SEMESTER | ADDITIONAL SUBJECTS | EXEMPTED SUBJECTS |
|---|---|---|
| I | NIL | NIL |
| II | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory | GE8261 Engineering Practices Laboratory |
| III | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory<br>3. GE8291 Environmental Science and Engineering | NIL |
| IV | ME8391 Engineering Thermodynamics | 1. IE8451 Engineering Economics and Cost Estimation<br>2. PR8451 Mechanics of Machines |
| V | ME8391 Engineering Thermodynamics | ME8593 Design of Machine Elements |
| VI | Open Elective - I | 1. MG8591 Principles of Management<br>2. IE8892 Statistical Quality Control |
| VII | 1. ME8391 Engineering Thermodynamics<br>2. Open Elective - I | 1. IE8892 Statistical Quality Control<br>2. Professional Elective IV |
| VIII | ME8391 Engineering Thermodynamics | IE8892 Statistical Quality Control |

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Additional Subjects to be studied and exempted in respect of students originally admitted
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FACULTY OF MECHANICAL ENGINEERING

BRANCH: B.E. Mechanical and Automation Engineering

| REJOINING SEMESTER | ADDITIONAL SUBJECTS | EXEMPTED SUBJECTS |
|---|---|---|
| I | NIL | NIL |
| II | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory | GE8261 Engineering Practices Laboratory |
| III | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory<br>3. GE8291 Environmental Science and Engineering | NIL |
| IV | NIL | NIL |
| V | AN8401 Manufacturing System Management | 1. AN8501 LAN and Networking<br>2. AN8512 LAN and Networking Laboratory |
| VI | Open Elective - I | AN8701 Measurements and Controls |
| VII | 1. Open Elective – I<br>2. AN8601 Thermal Engineering | AN8701 Measurements and Controls |
| VIII | AN8601 Thermal Engineering | Professional Elective – IV |

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**FACULTY OF MECHANICAL ENGINEERING**
**BRANCH: B.E. Robotics and Automation**

| REJOINING SEMESTER | ADDITIONAL SUBJECTS | EXEMPTED SUBJECTS |
|---|---|---|
| I | NIL | NIL |
| II | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory | GE8261 Engineering Practices Laboratory |
| III | 1. GE8151 Problem Solving and Python Programming<br>2. GE8161 Problem Solving and Python Programming Laboratory<br>3. GE8291 Environmental Science and Engineering | NIL |
| IV | EC8301 Object Oriented Programming and Data structures | 1. RO8402 Electrical Machines and Power Systems<br>2. RO8411 Electrical Machines Laboratory |
| V | NIL | RO8511 CNC and Metrology Laboratory |
| VI | Open Elective I | 1. Professional Elective II<br>2. RO8711 Modeling and Simulation Laboratory |
| VII | 1. Open Elective I<br>2. ME8694 Hydraulics and Pneumatics | 1. Professional Elective II<br>2. RO8711 Modeling and Simulation Laboratory |
| VIII | 1. ME8694 Hydraulics and Pneumatics<br>2. RO8791 Modeling and Simulation | 1. Professional Elective V<br>2. Professional Elective VI |

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