

# Meerut Institute of Engineering and Technology Meerut



## EVALUATION SCHEME AND SYLLABI

*For*

**B.Tech – 2<sup>nd</sup> Year**  
***(Mechanical Engineering)***  
**- Autonomous -**

**Effective from the Session: 2025-26**

**Affiliated With**



**Dr. A.P.J ABDUL KALAM TECHNICAL UNIVERSITY UTTAR PRADESH**

*Sec-11, Jankipuram Vistar, Lucknow - 226031, Uttar Pradesh, India*

**Meerut Institute of Engineering & Technology, Meerut**  
**Department of Mechanical Engineering**

**B.Tech 3rd Semester (Evaluation Scheme)**

| Sl. No. | Subject code      | Subject                                                                      | Type of Subject | Category     | Periods |   |    | Mid Semester Examination |    |        |     | End Semester Examination |    | Total | Credit |
|---------|-------------------|------------------------------------------------------------------------------|-----------------|--------------|---------|---|----|--------------------------|----|--------|-----|--------------------------|----|-------|--------|
|         |                   |                                                                              |                 |              | L       | T | P  | CT                       | TA | TOT AL | PS  | TE                       | PE |       |        |
| 1       | MME301            | Fluid Mechanics                                                              | T               | PCC          | 3       | 1 | 0  | 20                       | 10 | 30     |     | 70                       |    | 100   | 4      |
| 2       | MME302            | Material Science and Metallurgy                                              | T               | PCC          | 3       | 0 | 0  | 20                       | 10 | 30     |     | 70                       |    | 100   | 3      |
| 3       | MME303            | Engineering Thermodynamics                                                   | T               | PCC          | 3       | 0 | 0  | 20                       | 10 | 30     |     | 70                       |    | 100   | 3      |
| 4       | MME 304           | Mechanics of Solids                                                          | T               | PCC          | 3       | 1 | 0  | 20                       | 10 | 30     |     | 70                       |    | 100   | 4      |
| 5       | MAS302/<br>MCS304 | Universal Human Value and Professional Ethics/Fundamentals of Cyber Security | T               | HSMC/<br>ESC | 2       | 0 | 0  | 20                       | 10 | 30     |     | 70                       |    | 100   | 2      |
| 6       | MAE301/<br>MAE302 | Verbal Ability and Communication skills / Quantitative & Logical Reasoning   | P               | AEC          | 2       | 0 | 0  |                          |    |        | 50  |                          |    | 50    | 2      |
| 7       | MME351            | Fluid Mechanics Lab                                                          | P               | PCC          | 0       | 0 | 2  |                          |    |        | 50  |                          | 50 | 100   | 1      |
| 8       | MME352            | Material Science and Metallurgy Lab                                          | P               | PCC          | 0       | 0 | 2  |                          |    |        | 50  |                          | 50 | 100   | 1      |
| 9       | MME353            | Computer-Aided Machine Drawing Lab Using Solid Edge                          | P               | PCC          | 0       | 0 | 2  |                          |    |        | 50  |                          | 50 | 100   | 1      |
| 10      | MME355            | Internship*/ Mini Project**/ Startup and Entrepreneurial Activity Assessment | P               | PR/INT       | 0       | 0 | 2  |                          |    |        | 100 |                          |    | 100   | 1      |
| 11      | MSE352            | Industrial Automation and Industry 4.0 (FESTO Lab)                           | P               | SEC          | 0       | 0 | 2  |                          |    |        | 50  |                          |    | 50    | 1      |
| 12      | MNC301            | Environment Sciences ***                                                     | T               | NC           | 0       | 0 | 2  | 20                       | 10 | 30     |     | 70                       |    | 100   | 0      |
|         |                   | Total                                                                        |                 |              | 18      | 2 | 10 |                          |    |        |     |                          |    | 1100  | 23     |

\*The subject will be evaluated by an external assessment agency

\*\*The Mini Project or internship (4 weeks) will be done during summer break after 2nd Semester and will be assessed during III semester

\*\*\* Compulsory Qualifying Audit Course

|            |                                 |           |                            |
|------------|---------------------------------|-----------|----------------------------|
| <b>BSC</b> | <b>Applied Science</b>          | <b>TS</b> | <b>Theory Sessional</b>    |
| <b>AEC</b> | <b>Ability Enhancement</b>      | <b>TE</b> | <b>Theory External</b>     |
| <b>SEC</b> | <b>Skill Enhancement Course</b> | <b>PE</b> | <b>Practical External</b>  |
| <b>CT</b>  | <b>Class Test</b>               | <b>PS</b> | <b>Practical Sessional</b> |
| <b>TA</b>  | <b>Teacher Assessment</b>       |           |                            |

**B.Tech 4th Semester (Evaluation Scheme)**

| Sl. No. | Subject code      | Subject                                                                          | Types of Subjects | Category     | Periods   |          |           | Mid Semester Examination |    |       |    | End Semester Examination |    | Total       | Credit    |
|---------|-------------------|----------------------------------------------------------------------------------|-------------------|--------------|-----------|----------|-----------|--------------------------|----|-------|----|--------------------------|----|-------------|-----------|
|         |                   |                                                                                  |                   |              | L         | T        | P         | CT                       | TA | TOTAL | PS | TE                       | PE |             |           |
| 1       | MME 401           | Theory of Machines                                                               | T                 | PCC          | 3         | 0        | 0         | 20                       | 10 | 30    |    | 70                       |    | 100         | 3         |
| 2       | MME 402           | Applied Thermodynamics                                                           | T                 | PCC          | 3         | 1        | 0         | 20                       | 10 | 30    |    | 70                       |    | 100         | 4         |
| 3       | MME 403           | Manufacturing Science                                                            | T                 | PCC          | 3         | 0        | 0         | 20                       | 10 | 30    |    | 70                       |    | 100         | 3         |
| 4       | MAS403            | Mathematics-III                                                                  | T                 | BSC          | 3         | 1        | 0         | 20                       | 10 | 30    |    | 70                       |    | 100         | 4         |
| 5       | MAS402/<br>MCS404 | Universal Human Value and Professional Ethics/<br>Fundamentals of Cyber Security | T                 | HSMC/<br>ESC | 2         | 0        | 0         | 20                       | 10 | 30    |    | 70                       |    | 100         | 2         |
| 6       | MAE401/<br>MAE402 | Verbal Ability and Communication skills/<br>Quantitative & Logical Reasoning     | P                 | AEC          | 2         | 0        | 0         |                          |    |       | 50 |                          |    | 50          | 2         |
| 7       | MME 451           | Theory of Machines Lab                                                           | P                 | PCC          | 0         | 0        | 2         |                          |    |       | 50 |                          | 50 | 100         | 1         |
| 7       | MME 452           | Applied Thermodynamics Lab                                                       | P                 | PCC          | 0         | 0        | 2         |                          |    |       | 50 |                          | 50 | 100         | 1         |
| 8       | MME 453           | Manufacturing Science Lab                                                        | P                 | PCC          | 0         | 0        | 2         |                          |    |       | 50 |                          | 50 | 100         | 1         |
| 9       | MSE451            | Artificial Intelligence Lab                                                      | P                 | SEC          | 0         | 0        | 2         |                          |    |       | 50 |                          |    | 50          | 1         |
| 10      | MAE 451           | Design & Thinking -I lab                                                         | P                 | AEC          | 0         | 0        | 2         |                          |    |       | 50 |                          |    | 50          | 1         |
| 12      | MNC402            | Sports and Yoga**                                                                | P                 | NC           | 0         | 0        | 2         |                          |    |       | 50 |                          |    | 50          | 0         |
| 13      |                   | Minor Degree*/Honors Degree* MT-I/HT-I                                           |                   |              |           |          |           |                          |    |       |    |                          |    |             |           |
|         |                   |                                                                                  |                   | <b>Total</b> | <b>16</b> | <b>2</b> | <b>12</b> |                          |    |       |    |                          |    | <b>1000</b> | <b>23</b> |

\*MOOC- From SWAYAM/NPTEL(20 Credits)- Not related to Mechanical Engineering

\*\* Compulsory Qualifying Audit Course

|     |                          |    |                     |
|-----|--------------------------|----|---------------------|
| BSC | Applied Science          | TS | Theory Sessional    |
| AEC | Ability Enhancement      | TE | Theory External     |
| SEC | Skill Enhancement Course | PE | Practical External  |
| CT  | Class Test               | PS | Practical Sessional |
| TA  | Teacher Assessment       |    |                     |