

**STUDY & EVALUATION SCHEME**  
**M.TECH: ELECTRICAL ENGINEERING (R)**  
**SPECIALIZATION: RENEWABLE ENERGY AND ENERGY AUDIT**  
**I YEAR: I SEMESTER**

| S. NO.                            | SUBJECT CODE | SUBJECT  | L         | T        | P        | CIE        | ESE        | TOTAL      | C         |
|-----------------------------------|--------------|--|-----------|----------|----------|------------|------------|------------|-----------|
| <b>THEORY</b>                     |              |  |           |          |          |            |            |            |           |
| 1                                 | MHU1002      | Technical Communication                          | 2         | 0        | 0        | 40         | 60         | 100        | 2         |
| 2                                 | MEE1009      | Introduction to Energy Studies                   | 4         | 1        | 0        | 40         | 60         | 100        | 4         |
| 3                                 | MEE1010      | Rural Electrification Technologies and Economics | 4         | 2        | 0        | 40         | 60         | 100        | 5         |
| 4                                 | MEE1011      | Solar Energy                                     | 4         | 2        | 0        | 40         | 60         | 100        | 5         |
| 5                                 | MEE1012      | Power Quality                                    | 4         | 2        | 0        | 40         | 60         | 100        | 5         |
| <b>PRACTICAL/TRAINING/PROJECT</b> |              |  |           |          |          |            |            |            |           |
| 6                                 | MEE1504      | Solar Energy Lab                                 | 0         | 0        | 3        | 80         | 20         | 100        | 2         |
| <b>TOTAL</b>                      |              |  | <b>18</b> | <b>7</b> | <b>3</b> | <b>280</b> | <b>320</b> | <b>600</b> | <b>23</b> |

L - Lecture

T - Tutorial

P - Practical

CIE - Continuous Internal Evaluation

ESE-End Semester Exam

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**I YEAR: II SEMESTER**

| S. NO.                            | SUBJECT CODE | SUBJECT  | L         | T        | P        | CIE        | ESE        | TOTAL      | C         |
|-----------------------------------|--------------|--|-----------|----------|----------|------------|------------|------------|-----------|
| <b>THEORY</b>                     |              |  |           |          |          |            |            |            |           |
| 1                                 | MUH2001      | Professional Ethics  | 2         | 0        | 0        | 40         | 60         | 100        | 2         |
| 2                                 | MEE2007      | Wind Energy, Small Hydro and New Renewable Energy Technologies | 4         | 2        | 0        | 40         | 60         | 100        | 5         |
| 3                                 | MEE2008      | Energy Auditing and Management                                 | 4         | 2        | 0        | 40         | 60         | 100        | 5         |
| 4                                 | MEE2009      | Waste to Energy Conversion Technologies                        | 4         | 0        | 0        | 40         | 60         | 100        | 4         |
| 5                                 | -----        | Elective-I   | 4         | 2        | 0        | 40         | 60         | 100        | 5         |
| <b>PRACTICAL/TRAINING/PROJECT</b> |              |  |           |          |          |            |            |            |           |
| 6                                 | MEE2504      | Waste to Energy Conversion Technologies Lab                    | 0         | 0        | 3        | 80         | 20         | 100        | 2         |
| 7                                 | MEE2505      | Wind Energy Lab  | 0         | 0        | 3        | 80         | 20         | 100        | 2         |
| <b>TOTAL</b>                      |              |  | <b>18</b> | <b>6</b> | <b>6</b> | <b>360</b> | <b>340</b> | <b>700</b> | <b>25</b> |

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**II YEAR: III SEMESTER**

| S. NO.                            | SUBJECT CODE | SUBJECT               | L        | T        | P         | CIE        | ESE        | TOTAL      | C         |
|-----------------------------------|--------------|-----------------------|----------|----------|-----------|------------|------------|------------|-----------|
| <b>THEORY</b>                     |              |                       |          |          |           |            |            |            |           |
| 1                                 | ---          | Elective-II           | 4        | 2        | 0         | 40         | 60         | 100        | 5         |
| 2                                 | ---          | Elective-III          | 4        | 2        | 0         | 40         | 60         | 100        | 5         |
| <b>PRACTICAL/TRAINING/PROJECT</b> |              |                       |          |          |           |            |            |            |           |
| 3                                 | MEE3501      | Seminar/Minor Project | -        | -        | 4         | 100        | -          | 100        | 4         |
| 4                                 | MEE3502      | Dissertation-I        | -        | -        | 6         | 100        | -          | 100        | 6         |
| <b>TOTAL</b>                      |              |                       | <b>8</b> | <b>4</b> | <b>10</b> | <b>280</b> | <b>120</b> | <b>400</b> | <b>20</b> |

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**II YEAR: IV SEMESTER**

| S. NO.             | SUBJECT CODE | SUBJECT            | L         | T         | P         | CIE         | ESE        | TOTAL       | C         |
|--------------------|--------------|--------------------|-----------|-----------|-----------|-------------|------------|-------------|-----------|
| <b>THEORY</b>      |              |                    |           |           |           |             |            |             |           |
| 1                  | MEE4501      | Dissertation-II    | -         | -         | 18        | 80          | 20         | 100         | 18        |
| 2                  | MEE4502      | Comprehensive Viva | -         | -         | -         | 100         | -          | 100         | 2         |
| <b>TOTAL</b>       |              |                    | -         | -         | <b>18</b> | <b>180</b>  | <b>20</b>  | <b>200</b>  | <b>20</b> |
| <b>GRAND TOTAL</b> |              |                    | <b>44</b> | <b>17</b> | <b>37</b> | <b>1100</b> | <b>800</b> | <b>1900</b> | <b>88</b> |

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**LIST OF ELECTIVES**

| <b>S. NO.</b>                      | <b>SUBJECT CODE</b> | <b>SUBJECT</b>                              |
|------------------------------------|---------------------|---|
| <b>Elective-I (Semester-II)</b>    |                     |   |
| 1                                  | MEE2106             | Energy and Climate Change Concerns          |
| 2                                  | MEE2107             | Energy Economics                            |
| 3                                  | MEE2108             | Power System for Renewable Energy Sources   |
| 4                                  | MMA2102             | Research Methodology and Statistical Method |
| <b>Elective-II (Semester-III)</b>  |                     |   |
| 1                                  | MEE3107             | Environmental Impact Assessment             |
| 2                                  | MEE3108             | Smart Grid                                  |
| 3                                  | MEE3109             | Energy Modeling and Project Management      |
| 4                                  | MEE3110             | Fuel and Combustion Technology              |
| <b>Elective-III (Semester-III)</b> |                     |   |
| 1                                  | MEE3206             | Bio Energy System Technology                |
| 2                                  | MEE3207             | New Energy Technology                       |
| 3                                  | MEE3208             | Solar Photovoltaic System                   |
| 4                                  | MEE3209             | Energy Auditing Instrumentation             |