

Four Year Degree Course in Bachelor of Engineering Branch: **MECHANICAL ENGINEERING**  
Semester Pattern (Choice Based Credit Grade System)

| <b>SEMESTER : THIRD</b>              |                 |                               |                 |          |          |                     |                    |                            |                            |                   |            |                          |            |            |                          |                    |  |
|--------------------------------------|-----------------|-------------------------------|-----------------|----------|----------|---------------------|--------------------|----------------------------|----------------------------|-------------------|------------|--------------------------|------------|------------|--------------------------|--------------------|--|
| Sr.<br>No.                           | Subject<br>Code | Subject                       | TEACHING SCHEME |          |          |                     | EXAMINATION SCHEME |                            |                            |                   |            |                          |            |            |                          |                    |  |
|                                      |                 |                               | HOURS /<br>WEEK |          |          | Total<br>HOURS/WEEK | CREDITS            | THEORY                     |                            |                   |            |                          | PRACTICAL  |            |                          |                    |  |
|                                      |                 |                               | Lecture         | Tutorial | P/D      |                     |                    | Duration Of<br>Paper (Hr.) | Max. Marks<br>Theory Paper | Internal<br>Marks | Total      | Min.<br>Passing<br>Marks | Max. Marks | Total      | Min.<br>Passing<br>Marks |                    |  |
| <b>THEORY</b>                        |                 |                               |                 |          |          |                     |                    |                            |                            |                   |            |                          |            |            |                          |                    |  |
| 01                                   | 3ME01           | Mathematics-III               | 3               | 1        | --       | 4                   | 4                  | 3                          | 80                         | 20                | 100        | 40                       | --         | --         | --                       | --                 |  |
| 02                                   | 3ME02           | Manufacturing Processes       | 3               | --       | --       | 3                   | 3                  | 3                          | 80                         | 20                | 100        | 40                       | --         | --         | --                       | --                 |  |
| 03                                   | 3ME03           | Mechanics of Materials        | 3               | --       | --       | 3                   | 3                  | 3                          | 80                         | 20                | 100        | 40                       | --         | --         | --                       | --                 |  |
| 04                                   | 3ME04           | Engineering Thermodynamics    | 3               | --       | --       | 3                   | 3                  | 3                          | 80                         | 20                | 100        | 40                       | --         | --         | --                       | --                 |  |
| 05                                   | 3ME05           | Fluid Mechanics               | 3               | --       | --       | 3                   | 3                  | 3                          | 80                         | 20                | 100        | 40                       | --         | --         | --                       | --                 |  |
| 06                                   | 4ES06           | **Environmental Studies       | 2               | --       | --       | 2                   | --                 | --                         | --                         | --                | --         | --                       | -          | -          | -                        | -                  |  |
| <b>PRACTICALS / DRAWING / DESIGN</b> |                 |                               |                 |          |          |                     |                    |                            |                            |                   |            |                          |            |            |                          |                    |  |
| 07                                   | 3ME07           | Manufacturing Processes- lab. | --              | --       | 2        | 2                   | 1                  | --                         | --                         | --                | --         | --                       | 25         | 25         | 50                       | 25                 |  |
| 08                                   | 3ME08           | Mechanics of Materials- lab . | --              | --       | 2        | 2                   | 1                  | --                         | --                         | --                | --         | --                       | 25         | 25         | 50                       | 25                 |  |
| 09                                   | 3ME09           | Fluid Mechanics- lab.         | --              | --       | 2        | 2                   | 1                  | --                         | --                         | --                | --         | --                       | 25         | 25         | 50                       | 25                 |  |
| 10                                   | 3ME10           | Machine Drawing- lab.         | --              | --       | 2        | 2                   | 1                  | --                         | --                         | --                | --         | --                       | 25         | 25         | 50                       | 25                 |  |
| <b>Total</b>                         |                 |                               | <b>17</b>       | <b>1</b> | <b>8</b> | <b>26</b>           | <b>20</b>          | --                         | --                         | --                | <b>500</b> | --                       | --         | <b>200</b> | --                       | <b>Grand Total</b> |  |
| <b>700</b>                           |                 |                               |                 |          |          |                     |                    |                            |                            |                   |            |                          |            |            |                          |                    |  |

Note: \*\*The Examination of the Subject Environmental Studies shall be conducted in IV Semester.

| SEMESTER : FOURTH                    |                 |  |                 |          |          |                     |           |                         |                         |                |            |                    |            |    |              |                    |
|--------------------------------------|-----------------|--|-----------------|----------|----------|---------------------|-----------|-------------------------|-------------------------|----------------|------------|--------------------|------------|----|--------------|--------------------|
| Sr.<br>No.                           | Subject<br>Code | Subject                                | TEACHING SCHEME |          |          |                     |           | EXAMINATION SCHEME      |                         |                |            |                    |            |    |              |                    |
|                                      |                 |  | HOURS / WEEK    |          |          | Total<br>HOURS/WEEK | CREDITS   | THEORY                  |                         |                |            |                    | PRACTICAL  |    |              |                    |
|                                      |                 |  | Lecture         | Tutorial | P/D      |                     |           | Duration Of Paper (Hr.) | Max. Marks Theory Paper | Internal Marks | Total      | Min. Passing Marks | Max. Marks |    | Total        | Min. Passing Marks |
| <b>THEORY</b>                        |                 |  |                 |          |          |                     |           |                         |                         |                |            |                    |            |    |              |                    |
| 01                                   | 4ME01           | Material Science                       | 3               | --       | -        | 3                   | 3         | 3                       | 80                      | 20             | 100        | 40                 | --         | -- | --           | --                 |
| 02                                   | 4ME02           | Energy Conversion - I                  | 3               | 1        | --       | 4                   | 4         | 3                       | 80                      | 20             | 100        | 40                 | --         | -- | --           | --                 |
| 03                                   | 4ME03           | Manufacturing Technology               | 3               | --       | --       | 3                   | 3         | 3                       | 80                      | 20             | 100        | 40                 | --         | -- | --           | --                 |
| 04                                   | 4ME04           | Basic Electrical Drives & Control      | 3               | --       | --       | 3                   | 3         | 3                       | 80                      | 20             | 100        | 40                 | --         | -- | --           | --                 |
| 05                                   | 4ME05           | Hydraulic & Pneumatic Systems          | 3               | --       | --       | 3                   | 3         | 3                       | 80                      | 20             | 100        | 40                 | --         | -- | --           | --                 |
| 06                                   | 4ES06           | **Environmental Studies                | 2               | --       | --       | 2                   | 2         | 3                       | 80                      | 20             | 100        | 40                 | -          | -  | -            | -                  |
| <b>PRACTICALS / DRAWING / DESIGN</b> |                 |  |                 |          |          |                     |           |                         |                         |                |            |                    |            |    |              |                    |
| 07                                   | 4ME07           | Material Science-lab                   | --              | --       | 2        | 2                   | 1         | --                      | --                      | --             | --         | --                 | 25         | 25 | 50           | 25                 |
| 08                                   | 4ME08           | Manufacturing Technology-lab           | --              | --       | 2        | 2                   | 1         | --                      | --                      | --             | --         | --                 | 25         | 25 | 50           | 25                 |
| 09                                   | 4ME09           | Basic Electrical Drives & Control -lab | --              | --       | 2        | 2                   | 1         | --                      | --                      | --             | --         | --                 | 25         | 25 | 50           | 25                 |
| 10                                   | 4ME10           | Hydraulic & Pneumatic Systems-lab      | --              | --       | 2        | 2                   | 1         | --                      | --                      | --             | --         | --                 | 25         | 25 | 50           | 25                 |
| <b>Total</b>                         |                 |  | <b>17</b>       | <b>1</b> | <b>8</b> | <b>26</b>           | <b>22</b> | --                      | --                      | --             | <b>500</b> | --                 | --         | -- | <b>200</b>   | --                 |
|                                      |                 |  |                 |          |          |                     |           |                         |                         |                |            |                    |            |    | <b>Total</b> | <b>700</b>         |

Note: \*\*The Examination of Mandatory Subject Environmental Science shall be conducted in IV Semester.

**SEMESTER : FIFTH**

| Sr.<br>No.                           | Subject<br>Code | Subject                           | TEACHING SCHEME |          |          |                     | EXAMINATION SCHEME |                         |                         |                |            |                    |            |            |                    |
|--------------------------------------|-----------------|-----------------------------------|-----------------|----------|----------|---------------------|--------------------|-------------------------|-------------------------|----------------|------------|--------------------|------------|------------|--------------------|
|                                      |                 |                                   | HOURS / WEEK    |          |          | Total<br>HOURS/WEEK | CREDITS            | THEORY                  |                         |                |            |                    | PRACTICAL  |            |                    |
|                                      |                 |                                   | Lecture         | Tutorial | P/D      |                     |                    | Duration Of Paper (Hr.) | Max. Marks Theory Paper | Internal Marks | Total      | Min. Passing Marks | Max. Marks | Total      | Min. Passing Marks |
| <b>THEORY</b>                        |                 |                                   |                 |          |          |                     |                    |                         |                         |                |            |                    |            |            |                    |
| 01                                   | 5ME01           | Heat Transfer                     | 3               | --       | --       | 3                   | 3                  | 3                       | 80                      | 20             | 100        | 40                 | --         | --         | --                 |
| 02                                   | 5ME02           | Metrology & Quality Control       | 3               | --       | --       | 3                   | 3                  | 3                       | 80                      | 20             | 100        | 40                 | --         | --         | --                 |
| 03                                   | 5ME03           | Kinematics of Machines            | 3               | 1        | --       | 4                   | 4                  | 3                       | 80                      | 20             | 100        | 40                 | --         | --         | --                 |
| 04                                   | 5ME04           | Measurement Systems               | 3               | --       | --       | 3                   | 3                  | 3                       | 80                      | 20             | 100        | 40                 | --         | --         | --                 |
| 05                                   | 5ME05           | Open Elective – I (OE-I)          | 3               | --       | --       | 3                   | 3                  | 3                       | 80                      | 20             | 100        | 40                 | --         | --         | --                 |
| <b>PRACTICALS / DRAWING / DESIGN</b> |                 |                                   |                 |          |          |                     |                    |                         |                         |                |            |                    |            |            |                    |
| 06                                   | 5ME06           | Heat Transfer- lab.               | --              | --       | 2        | 2                   | 1                  | --                      | --                      | --             | --         | --                 | 25         | 25         | 50                 |
| 07                                   | 5ME07           | Metrology & Quality Control- lab. | --              | --       | 2        | 2                   | 1                  | --                      | --                      | --             | --         | --                 | 25         | 25         | 50                 |
| 08                                   | 5ME08           | Kinematics of Machines- lab.      | --              | --       | 2        | 2                   | 1                  | --                      | --                      | --             | --         | --                 | 25         | 25         | 50                 |
| 09                                   | 5ME09           | Measurement Systems –lab.         | --              | --       | 2        | 2                   | 1                  | --                      | --                      | --             | --         | --                 | 25         | 25         | 50                 |
| <b>Total</b>                         |                 |                                   | <b>15</b>       | <b>1</b> | <b>8</b> | <b>24</b>           | <b>20</b>          | <b>--</b>               | <b>--</b>               | <b>--</b>      | <b>500</b> | <b>--</b>          | <b>--</b>  | <b>200</b> | <b>--</b>          |
| <b>Grand Total</b>                   |                 |                                   |                 |          |          |                     |                    |                         |                         |                |            |                    | <b>700</b> |            |                    |

**Open Elective – I (For other Disciplines) :** (i) Production Management (ii) Manufacturing Techniques

An Orientation Program of 15 Hours duration / MOOCs on Advanced Courses line Machine learning, 3-D Printing, Virtual Reality, Supply Chain Management, Numerical Computation for Mechanical Engineers, Bio-mechanics, Fundamentals of nano-Engineering, Micro-Electro Mechanical Systems, Nano-to-Macro Transport Processes, Fundamentals of Photo Voltaics, Machine Tools etc. be offered during V semester.

**Open Elective-I** to be opted from the University's faculty of Engineering & Technology offered inter-disciplinary courses or MOOCs courses pertaining to the Engineering Profession.

**SEMESTER : SIXTH**

| Sr.<br>No.                           | Subject<br>Code | Subject                          | TEACHING SCHEME |          |           |                     |         | EXAMINATION SCHEME      |                         |                |            |                    |            |       |                    |      |           |
|--------------------------------------|-----------------|----------------------------------|-----------------|----------|-----------|---------------------|---------|-------------------------|-------------------------|----------------|------------|--------------------|------------|-------|--------------------|------|-----------|
|                                      |                 |                                  | HOURS / WEEK    |          |           | Total<br>HOURS/WEEK | CREDITS | THEORY                  |                         |                |            |                    | PRACTICAL  |       |                    |      |           |
|                                      |                 |                                  | Lecture         | Tutorial | P/D       |                     |         | Duration Of Paper (Hr.) | Max. Marks Theory Paper | Internal Marks | Total      | Min. Passing Marks | Max. Marks | Total | Min. Passing Marks | Int. | Ext.      |
| <b>THEORY</b>                        |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
| 01                                   | 6ME01           | Design of Machine Elements       | 3               | --       | --        | 3                   | 3       | 3                       | 80                      | 20             | 100        | 40                 | --         | --    | --                 | --   | --        |
| 02                                   | 6ME02           | Dynamics of Machines             | 3               | 1        | --        | 4                   | 4       | 3                       | 80                      | 20             | 100        | 40                 | --         | --    | --                 | --   | --        |
| 03                                   | 6ME03           | Control System Engineering       | 3               | --       | --        | 3                   | 3       | 3                       | 80                      | 20             | 100        | 40                 | --         | --    | --                 | --   | --        |
| 04                                   | 6ME04           | Prof. Elective - I               | 3               | --       | --        | 3                   | 3       | 3                       | 80                      | 20             | 100        | 40                 | --         | --    | --                 | --   | --        |
| 05                                   | 6ME05           | Open Elective - II               | 3               | --       | --        | 3                   | 3       | 3                       | 80                      | 20             | 100        | 40                 | --         | --    | --                 | --   | --        |
| <b>PRACTICALS / DRAWING / DESIGN</b> |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
| 06                                   | 6ME06           | Design of Machine Elements- lab. | --              | --       | 2         | 2                   | 1       | --                      | --                      | --             | --         | --                 | 25         | 25    | 50                 | 25   |           |
| 07                                   | 6ME07           | Dynamics of Machines- lab.       | --              | --       | 2         | 2                   | 1       | --                      | --                      | --             | --         | --                 | 25         | 25    | 50                 | 25   |           |
| 08                                   | 6ME08           | Prof. Elective - I - lab.        | --              | --       | 2         | 2                   | 1       | --                      | --                      | --             | --         | --                 | 25         | 25    | 50                 | 25   |           |
| 09                                   | 6ME09           | Research Skills - lab.           | --              | --       | 2         | 2                   | 1       | --                      | --                      | --             | --         | --                 | 25         | 25    | 50                 | 25   |           |
| <b>Total</b>                         |                 | <b>15</b>                        | <b>1</b>        | <b>8</b> | <b>24</b> | <b>20</b>           |         |                         |                         |                | <b>500</b> |                    |            |       | <b>200</b>         |      | <b>--</b> |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |
|                                      |                 |                                  |                 |          |           |                     |         |                         |                         |                |            |                    |            |       |                    |      |           |

| Sr.<br>No.                           | Subject<br>Code | Subject                          | TEACHING SCHEME |          |           |                  |                               | EXAMINATION SCHEME               |                   |       |                          |            |      |      |                    |                    |
|--------------------------------------|-----------------|----------------------------------|-----------------|----------|-----------|------------------|-------------------------------|----------------------------------|-------------------|-------|--------------------------|------------|------|------|--------------------|--------------------|
|                                      |                 |                                  | HOURS / WEEK    |          |           | Total<br>CREDITS | THEORY                        |                                  |                   |       |                          | PRACTICAL  |      |      |                    |                    |
|                                      |                 |                                  | Lecture         | Tutorial | P/D       |                  | Duration<br>Of Paper<br>(Hr.) | Max.<br>Marks<br>Theory<br>Paper | Internal<br>Marks | Total | Min.<br>Passing<br>Marks | Max. Marks | Int. | Ext. | Total              | Min. Passing Marks |
| <b>THEORY</b>                        |                 |                                  |                 |          |           |                  |                               |                                  |                   |       |                          |            |      |      |                    |                    |
| 01                                   | 7ME01           | Mechatronics                     | 3               | --       | --        | 3                | 3                             | 3                                | 80                | 20    | 100                      | 40         | --   | --   | --                 | --                 |
| 02                                   | 7ME02           | Productivity Techniques          | 3               | --       | --        | 3                | 3                             | 3                                | 80                | 20    | 100                      | 40         | --   | --   | --                 | --                 |
| 03                                   | 7ME03           | Industrial Management & Costing  | 3               | --       | --        | 3                | 3                             | 3                                | 80                | 20    | 100                      | 40         | --   | --   | --                 | --                 |
| 04                                   | 7ME04           | Energy Conversion - II           | 3               | --       | --        | 3                | 3                             | 3                                | 80                | 20    | 100                      | 40         | --   | --   | --                 | --                 |
| 05                                   | 7ME05           | Professional Elective- II        | 3               | --       | --        | 3                | 3                             | 3                                | 80                | 20    | 100                      | 40         | --   | --   | --                 | --                 |
| <b>PRACTICALS / DRAWING / DESIGN</b> |                 |                                  |                 |          |           |                  |                               |                                  |                   |       |                          |            |      |      |                    |                    |
| 06                                   | 7ME06           | Mechatronics- lab.               | --              | --       | 2         | 2                | 1                             | --                               | --                | --    | --                       | --         | 25   | 25   | 50                 | 25                 |
| 07                                   | 7ME07           | Energy Conversion – II- lab.     | --              | --       | 2         | 2                | 1                             | --                               | --                | --    | --                       | --         | 25   | 25   | 50                 | 25                 |
| 08                                   | 7ME08           | Professional Elective- II – lab. | --              | --       | 2         | 2                | 1                             | --                               | --                | --    | --                       | --         | 25   | 25   | 50                 | 25                 |
| 09                                   | 7ME09           | Technical Seminar & Project      | --              | --       | 8         | 8                | 4                             | --                               | --                | --    | --                       | --         | 50   | --   | 50                 | 25                 |
| <b>Total</b>                         |                 |                                  | <b>15</b>       | <b>0</b> | <b>14</b> | <b>29</b>        | <b>22</b>                     |                                  |                   |       | <b>500</b>               |            |      |      | <b>200</b>         |                    |
|                                      |                 |                                  |                 |          |           |                  |                               |                                  |                   |       |                          |            |      |      | <b>Grand Total</b> | <b>700</b>         |

**8ME03 Prof. Elect. –III :** (i) Automobile Engineering (ii) Production Planning & Control (iii) Product Design

**8ME04 : Prof. Elect. IV: (i) Design of Transmission Systems (ii) Refrigeration & Air Conditioning (iii) Finite Element Analysis**