

ME441: MINOR PROJECT
CREDITS = 15 (L=0, T=0, P=15)

Course Objective:

To develop competency of applying engineering knowledge to real life problems.

Teaching and Assessment Scheme:

| Teaching Scheme | | | Credits | Assessment Scheme | | | | |
|-----------------|---|----|---------|-------------------|----|-----------|-----|-------------|
| L | T | P | C | Theory | | Practical | | Total Marks |
| | | | | ESE | CE | ESE | CE | |
| 0 | 0 | 15 | 15 | 0 | 0 | 180 | 120 | 300 |

This subject will be offered to the final year mechanical engineering students, except those students selected for the major project.

Minor Project envisages that a student during the final semester will acquire the ability of applying the engineering knowledge to a practical problem. A student is required to carry out the project work related to Mechanical Engineering, under the guidance of a faculty member and/or the supervisor of the concerned industry/institute/organisation.

The student can undertake the project individually or in a group of not more than four students.

The project must cover at least any one area suggested below:

- Design, analysis and/or fabrication,
- Experimentation,
- Product design and development,
- Design and development of laboratory equipments/test rigs,
- Industry needs based basic survey or Testing or Analysis etc.

A report comprising preliminary literature review, objective, methodology and scope of the project work undertaken, duly signed by project guide(s) and head of the department, will be submitted for the end semester examination.

Course Outcomes (COs):

At the end of this course students will be able to ...

1. Identify an open ended problem in area of mechanical engineering which requires further investigation.
2. Identify the methods and materials required for the project work.
3. Manage the work with team members.
4. Formulate and implement innovative ideas for social and environmental benefits.
5. Analyse the results to come out with concrete solutions.
6. Write technical report of the project apart from developing a presentation.