Subject Code	Subject Name	Credits
MEL 802	**Power Engineering**	**01**

Objectives

1. To familiarisewith boilers, boiler mountings and accessories using models/cut sections
2. To familiarise with hydraulic energy conversion devices

Outcomes: Learner will be able to…

1. Differentiate boilers
2. Differentiate boiler mountings and accessories
3. Conduct a trial on impilse turbine and analyse its performance
4. Conduct a trail on reaction turbine and analyse its performance
5. Conduct a trial on Centrifugal pump and analyse its perfromance
6. Conduct a trial on Reciprocating pump and analyse its perfromance

List of Experiments

1. Demonstration of Boilers
2. Demonstration of Boiler mountings and accessories
3. Trial on Impulse turbine
5. Trial on Reaction turbine
6. Trial on centrifugal pump (Single stage/Multistage)
7. Trail on receprocating pump
8. Visit to Thermal Power Plant/Hydroelectric Power Plant/Gas Turbine Power Plant

Assessment:

Term Work

Term work shall consist of all the experiments from the list, 3 assignments containing numerical based on maximum contents of the syllabus and a visit report

The distribution of marks for term work shall be as follows:

Laboratory work (Experiments): **10 marks**

Assignments: **05 marks**

Visit report**: 05 Marks**

Attendance: **05 marks**

End Semester Practical/Oral Examination:

1. Students in a group (4 to 6) have to perform trial either on Impulse turbine, Reaction turbine, Centrifugal Pump or Reciprocating Pump and the same will be assessed by pair of examiners during the oral examination.
2. Distribution of marks for practical-oral examination shall be as follows:
   Trial: 15 marks
   Oral: 10 marks
3. Evaluation of practical/oral examination to be done based on the performance
4. Students work along with evaluation report to be preserved till the next examination