

**10 ME 32 P MECHANICAL ENGINEERING LAB-II**  
**III B.Tech II Semester**

*(with effect from the academic year 2012-2013)*

*Periods/week: 3*  
*University Exam :3 Hrs*

*Credits: 2*  
*Sessional Marks: 40*  
*End Examination Marks: 60*

*(Any **Eight** or more of the following experiments will be given)*

**List of Experiments:**

1. Load Test and Smoke Test on I.C. Engines.
2. Morse Test on Multi-Cylinder Engine.
3. Heat balance sheet on I.C. Engines.
4. Study of Multi-Cylinder Engine and determination of its firing order.
5. Performance Test on Air Compressor.
6. Study of Automobile Mechanisms.
7. To draw the crank angle vs. pressure diagram for an I.C. engine using pressure transducer and cathode ray oscilloscope.
8. Load Test and Emission Test with 3-Gas Analyzer & smoke meter on four stroke diesel engine with Bio-diesel fuel.
9. Performance Test on centrifugal blower.
10. Economical Speed Test & volumetric efficiency test on I.C engine.
11. Retardation Test on an I.C. Engine.
12. Test for optimum flow rate of cooling water for an I. C. Engine.