

THERMAL AND IC ENGINES PRACTICAL

DETAILED SYLLABUS

OBJECTIVES

- To gain the practical exposure on Engine Ports and Valves timing
- To study the Flash and the Fire points of a fuel
- To find the Viscosity of lubricants.
- To find the Calorific value of fuel
- To conduct the performance test of engines
- To analyse the emission gases
- To study the various parts of an engine
- To get an exposure on the assembly and functioning of various parts of fuel feed system.

PART A

1. Draw Port timing diagram
2. Draw Valve timing diagram
3. Find Flash and Fire point – open cup and closed cup
4. Find Viscosity of lubricating oil – Say bolt viscometer / Red wood viscometer
5. Find Calorific Value of liquid fuels.
6. Conduct the performance test on Petrol / Diesel engine and draw the performance curves.
7. Morse test on multi cylinder Petrol engine.
8. Find the percentage of CO, CO₂, O₂ and amount of HC, NO_x & smoke using exhaust gas analyser.

PART B

1. Dismantling and assembling of the parts of a two stroke petrol engine.
2. Dismantling and assembling of the parts of a four-stroke petrol and diesel engines.
3. Removing cam shaft, replacing timing gear, removing valves and adjusting valve Clearance.
4. Removing, servicing and replacing oil pump and water pump.
5. Removing, servicing and replacing of A.C mechanical fuel pump / S.U. electrical fuel pump.

Diploma, Anna University-UG, PG., HSC & SSLC

Notes

Syllabus

Question Papers

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6. Removing, servicing of SOLEX, SU carburetors and study the components in MPFI.
7. Dismantling and assembling of Diesel feed pump and study of components in CRDI.
8. Dismantling and assembling of distributor pump and injectors