Course code	Course Name	L-T-P-Credits	Year of Introduction
AO332	PROPULSION LAB	0-0-3-1	2016

Course Objectives

- To carryout experiments in IC Engines, propeller, turbine blades etc.

List of Experiments

1. Performance test on a 4-stroke engine.
2. Valve timing of a 4 – stroke engine
3. Port timing of a 2 stroke engine.
4. COP test on a Vapour compression refrigeration test rig
5. Velocity profiles of wall jets.
6. Velocity profiles of free jets.
7. Wall Pressure distribution and measurements in nozzles.
8. Study of Forced / Free Convection.
9. Determination of Propeller Thrust and Performance.
10. Determination of effectiveness of heat exchanger.
11. Flame stabilization studies using conical flame holders.
12. Cascade testing of compressor and turbine blades.
13. Study of piston engines used in aircraft.
14. Study of Jet Engines used in aircraft.
15. Determination of calorific value of a fuel.

Expected outcome

- The students will be able to do simple experiments in propulsion area

END SEMESTER EXAM