### Diploma, Anna Univ UG & PG Courses

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# AE8512 PROPULSION LABORATORY

#### **DETAILED SYLLABUS**

### **OBJECTIVES:**

- To explore practically components of aircraft piston and gas turbine engines and their working principles.
- To impart practical knowledge of flow phenomenon of subsonic and supersonic jets.
- To determine practically thrust developed by rocket propellants.

## **LIST OF EXPERIMENTS**

- 1. Study of aircraft piston and gas turbine engines
- 2. Velocity profiles of free jets.
- 3. Velocity profiles of wall jets.
- 4. Wall pressure measurements of a subsonic diffusers and ramjet ducts.
- 5. Flame stabilization studies using conical and hemispherical flame holders.
- 6. Cascade testing of compressor blades.
- 7. Velocity and pressure measurements high speed jets.
- 8. Wall Pressure measurements of supersonic nozzle.
- 9. Flow visualization of supersonic flow.
- 10. Study experiments