

**AE8611 AERO ENGINE AND AIRFRAME LABORATORY**

DETAILED SYLLABUS

**OBJECTIVE:**

- To introduce the knowledge of the maintenance and repair procedures followed for overhaul of aero engines.

**LIST OF EXPERIMENTS**

1. Dismantling and reassembling of an aircraft piston engine.
2. Study of Camshaft operation, firing order and magneto, valve timing
3. Study of lubrication and cooling system
4. Study of auxiliary systems, pumps and carburetor
5. Aircraft wood gluing-single & double scarf joints
6. Welded single & double V-joints.
7. Fabric & Riveted Patch repairs
8. Tube bending and flaring
9. Sheet metal forming
10. Preparation of glass epoxy of composite laminates and specimens.