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<u>AE8613 AIRCRAFT DESIGN PROJECT - I</u>

DETAILED SYLLABUS

OBJECTIVE:

- To make the student work in groups and understand the Concepts involved in Aerodynamic design, Performance analysis and stability aspects of different types of airplanes
- 1. Comparative studies of different types of airplanes and their specifications and performance details with reference to the design work under taken.
- 2. Preliminary weight estimation, Selection of design parameters, power plant selection, aerofoil selection, fixing the geometry of Wing, tail, control surfaces Landing gear selection.
- 3. Preparation of layout drawing, construction of balance and three view diagrams of the airplane under consideration.
- 4. Drag estimation, Performance calculations, Stability analysis and V-n diagram.