

SYLLABUS :-

Prerequisites: AE31007

3 - 1 - 0: 4 Credits Introduction to the problem of stability and control; Longitudinal static stability - stick fixed and stick free; Control and maneuvering in steady level flight; Lateral/directional dynamic stability; Response of the aircraft to control inputs; Dynamic stability, stick free; response to gusts. Books: B Etkin, Dynamics of Atmospheric Flight, John Wiley E L Houghton and A E Brock, Aerodynamics for Engineering Students, Edward Arnold E L Houghton and N B Carruthers, Aerodynamics for Engineering Students, Edward Arnold