

SYLLABUS :-

Prerequisites: AE21002

3 - 0 - 0: 3 Credits Introduction, Differences with fixed wing aircraft, Helicopter components and performance requirements, Introduction to hovering theory, Hovering and vertical flight performance analysis. Autorotation in vertical descent, physical concepts of blade motion and rotor control aerodynamics of forward flight, forward flight performance, tail rotor, Helicopter force, momentum and power equilibrium, Control of helicopter, Introduction to helicopter vibration problems.