SUBJECT NO-AE31009, SUBJECT NAME- AEROSPACE STRUCTURAL ANALYSIS

LTP- 3-1-0,CRD- 4

SYLLABUS :-

Prerequisites: AE21004

3 - 1 - 0: 4 CreditsAnalysis of Aircraft
Structures; Thin-walled structures based on elasticity approach; Torsion,
bending and shear of open and closed thin-walled cells; Structural instability;
Buckling of columns, linear and nonlinear theories, Southwell method, inelastic
buckling, buckling under nonconservative forces.Books:T H G Megson, Aircraft
Structures for Engineering Students, Edward ArnoldH Ashley, Engineering
Analysis of Flight Vehicles, Addison WesleyC K Wang, Introductory Structural
Analysis with Matrix Method, Englewood Cliffs, Prentice HallE F Bruhn, Analysis
and Design of Aircraft Structures, Tri-State Offset CoE E Sechler and L G Dunn,
Airplane Structural Analysis and Design, Dover