



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

AIRCRAFT STRUCTURES -II

Paviath ONLINE

◆ MECH ALLIED ◆ AERONAUTICAL ENGINEERING ◆ SEMESTER – V ◆ ENGINEERING CODE AE6502

COURSE OBJECTIVE

TO PROVIDE THE STUDENTS VARIOUS METHODS FOR ANALYSIS OF AIRCRAFT WINGS AND FUSELAGE.
TO PROVIDE THE THE BEHAVIOR OF MAJOR AIRCRAFT STRUCTURAL COMPONENTS.

COURSE OUTCOME

ABILITY TO ANALYSE THE AIRCRAFT WINGS AND FUSELAGE
ABILITY TO DEMONSTRATE THE BEHAVIOR OF MAJOR AIRCRAFT STRUCTURAL COMPONENTS.

COURSE CONTENT

UNIT I UNSYMMETRICAL BENDING.
UNIT II SHEAR FLOW IN OPEN SECTIONS.
UNIT III SHEAR FLOW IN CLOSED SECTIONS.
UNIT IV BUCKLING OF PLATES.
UNIT V STRESS ANALYSIS OF WING AND FUSELAGE

REFERENCE BOOKS

1. MEGSON T M G, "AIRCRAFT STRUCTURES FOR ENGINEERING STUDENTS", ELSEVIER LTD, 2007
2. PEERY, D.J., AND AZAR, J.J., "AIRCRAFT STRUCTURES", 2ND EDITION, MCGRAW – HILL, N.Y., 1999
3. BRUHN, E.H., "ANALYSIS AND DESIGN OF FLIGHT VEHICLES STRUCTURES", TRI-STATE OFF-SET COMPANY, USA, 1985.
1. RIVELLO, R.M., "THEORY AND ANALYSIS OF FLIGHT STRUCTURES", MCGRAW HILL, 1993.
2. HOWARD D CURTIS, "FUNDAMENTALS OF AIRCRAFT STRUCTURAL ANALYSIS", WCB-MCGRAW HILL, 1997

COURSE SOFTWARE

- ◆ APM WINMACHINE (MULTIPHYSICS)
- ◆ KOMPAS 2D/3D/PDM/BOM
- ◆ VARICAD 2D/3D/PDM/BOM
- ◆ UNIVERSAL MECHANISM(MBD).
- ◆ SAM (MECHANISM DESIGN)
- ◆ SALTIRE SOFTWARE
- ◆ DOCUMENTATION & PRINTING

APM WINMACHINE

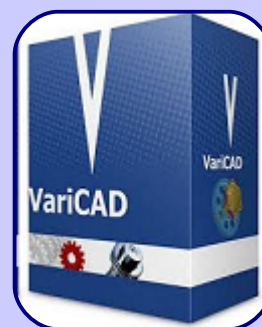
APM CAM/APM PLAIN/APM SCREW/APM STRUCTURE3D/APM DYNAMICS/APM BEAM/APM GRAPH/APM STUDIO
APM DRIVE/APM TRANS/APM SHAFT/APM BEAR/APM JOINT/APM SPRING/APM BASE/APM MECHANICAL DATA/APM MATERIAL DATA/APM SECTION DATA/APM CONSTRUCTION DATA/APM BOOK



APM WINMACHINE



KOMPAS 3D



VARICAD

DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
AIRCRAFT STRUCTURES -II	REGISTRATION	DOCUMENTS	COUNSELLING	OWN LAPTOP
ONLINE	2/UNIT TRAINING	4/UNIT ASSIGNMENT	2/UNIT ASSIGNED	SCHEDULE
PRESENTATION	WEBINAR	NETWORK	PRESENTATION	2/UNIT ASSIGNED
PERIOD	2 HRS/1/UNIT IN SEQUENCE	NETWORKING/HRS*	PRESENTATION	* BROWSING FEE
PRICE (SEMESTER)	BY MAIL	* BROWSING FEE	NO COST	CERTIFICATE

info@paviathintegratedsolution.com -www.paviathintegratedsolution.com www.paviathjobportal.com