



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

AIRCRAFT STRUCTURES - I

Paviath ONLINE

◆ MECH ALLIED ◆ AERONAUTICAL ENGINEERING ◆ SEMESTER – IV ◆ ENGINEERING CODE AE6403

COURSE OBJECTIVE

TO PROVIDE THE STUDENTS AN UNDERSTANDING ON THE LINEAR STATIC ANALYSIS OF DETERMINATE AND INDETERMINATE AIRCRAFT STRUCTURAL COMPONENTS.
TO PROVIDE THE DESIGN PROCESS USING DIFFERENT FAILURE THEORIES.

COURSE OUTCOME

ABILITY TO PERFORM LINEAR STATIC ANALYSIS OF DETERMINATE AND INDETERMINATE AIRCRAFT STRUCTURAL COMPONENTS
ABILITY TO DESIGN THE COMPONENT USING DIFFERENT THEORIES OF FAILURE

COURSE CONTENT

UNIT I STATICALLY DETERMINATE & INDETERMINATE STRUCTURES.
UNIT II ENERGY METHODS.
UNIT III COLUMNS.
UNIT IV FAILURE THEORIES.
UNIT V INDUCED STRESSES

REFERENCE BOOKS

1. TIMOSHENKO AND GERE, "MECHANICS OF MATERIALS", TATA MCGRAW HILL, 1993.
2. MEGSON T.M.G. "AIRCRAFT STRUCTURES FOR ENGINEERING STUDENTS" ELSEVIER SCIENCE AND TECHNOLOGY, 2007
3. PEERY AND AZAR, "AIRCRAFT STRUCTURES"
1. DONALDSON, B.K., "ANALYSIS OF AIRCRAFT STRUCTURES - AN INTRODUCTION", MCGRAW HILL, 1993.
2. BRUHN E.F. "ANALYSIS AND DESIGN OF FLIGHT VEHICLE STRUCTURES", TRI-STATE OFF-SET COMPANY, USA, 1985
3. PEERY, D.J. AND AZAR, J.J., "AIRCRAFT STRUCTURES", 2ND EDITION, MCGRAW - HILL, N.Y, 1999.

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

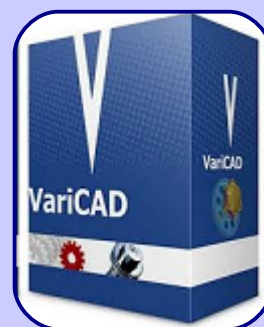
APM CAM/APM PLAIN/APM SCREW/APM STRUCTURE3D/APM DYNAMICS/APM BEAM/APM GRAPH/APM STUDIO
APM DRIVE/APM TRANS/APM SHAFT/APM BEAR/APM JOINT/APM SPRING/APM BASE/APM MECHANICAL DATA/APM MATERIAL DATA/APM SECTION DATA/APM CONSTRUCTION DATA/APM BOOK



APM WINMACHINE



KOMPAS 3D



VARICAD

DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
AIRCRAFT STRUCTURES - I	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