◆ MECH ALLIED ◆ AERONAUTICAL ENGINEERING ◆ SEMESTER – IV ◆ ENGINEERING CODE AE6413

COURSE OBJECTIVE
TO INTRODUCE THE CONCEPT OF DESIGN OF BASIC STRUCTURAL COMPONENTS AND TO DRAFT BOTH MANUALLY AND USING MODELLING PACKAGE.

COURSE OUTCOME
ABILITY TO DESIGN AND DRAW DIFFERENT JOINTS AND COMPONENTS USING MANUAL DRAFTING METHOD.

COURSE CONTENT
1. DESIGN AND DRAFTING OF RIVETED JOINTS
2. DESIGN AND DRAFTING OF WELDED JOINTS.
3. DESIGN AND DRAFTING CONTROL COMPONENTS CAM
4. DESIGN AND DRAFTING CONTROL COMPONENTS BELL CRANK
5. DESIGN AND DRAFTING CONTROL COMPONENTS GEAR
6. DESIGN AND DRAFTING CONTROL COMPONENTS PUSH-PULL ROD
7. THREE VIEW DIAGRAM OF A TYPICAL AIRCRAFT
8. LAYOUT OF TYPICAL WING STRUCTURE.
9. LAYOUT OF TYPICAL FUSELAGE STRUCTURE.
10. LAYOUT OF CONTROL SYSTEM

REFERENCE BOOKS
SOFT TOOL MANUAL

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
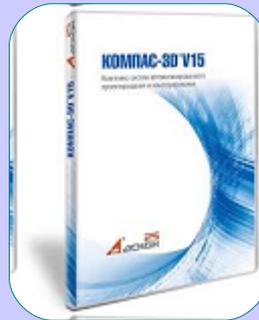
KOMPAS 3D
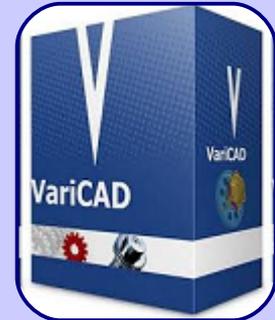
VARICAD

DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
CAD AND AIRCRAFT COMPONENT DRAWING	REGISTRATION	DOCUMENTS	COUNSELLING	OWN LAPTOP
ONLINE	2/UNIT TRAINING	4/UNIT ASSIGNMENT	2/UNIT ASSIGNED	SHEDULE
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