

DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

FATIGUE AND FRACTURE

Paviath ONLINE

◆ MECH ALLIED ◆ AERONAUTICAL ENGINEERING ◆ SEMESTER VII ELECTIVES- II ◆ ENGINEERING CODE AE6007

COURSE OBJECTIVE

TO UNDERSTAND THE BASIC CONCEPTS INVOLVED IN FATIGUE ANALYSIS AND TO STUDY THE IMPORTANCE OF FRACTURE MECHANICS IN AEROSPACE APPLICATIONS.

COURSE OUTCOME

ABILITY TO APPLY MATHEMATICAL KNOWLEDGE TO DEFINE FATIGUE BEHAVIORS ABILITY TO PERFORM FATIGUE DESIGN ABILITY TO ANALYSE THE FRACTURE DUE TO FATIGUE

COURSE CONTENT

UNIT I FATIGUE OF STRUCTURES. UNIT II STATISTICAL ASPECTS OF FATIGUE BEHAVIOUR.

UNIT III PHYSICAL ASPECTS OF FATIGUE. UNIT IV FRACTURE MECHANICS. UNIT V FATIGUE DESIGN AND TESTING

REFERENCE BOOKS

I. PRASANTH KUMAR, "ELEMENTS OF FRACTURE
MECHANICS", WHEETER PUBLICATION, 1999.

2. BARROIS W, RIPELY, E.L., "FATIGUE OF AIRCRAFT
STRUCTURE." PERGAMON PRESS. DXFORD, 1983.

I. SIH C.G., "MECHANICS OF FRACTURE." VOL - I,
SIJTHOFF AND W NOORDHOFF INTERNATIONAL
PUBLISHING CO., NETHERLANDS, 1989.

2. KNOTT, J.F., "FUNDAMENTALS OF FRACTURE
MECHANICS," - BUTERWORTH & CO., LTD., LONDON, 1983.

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
FATIGUE AND FRACTURE	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/I/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