



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG UNIV

MECHANICAL

STRENGTH OF MATERIALS

Paviath ONLINE

◆ STRENGTH OF MATERIALS ◆ MECH ENGG ◆ SEMESTER – IV ◆ ENGINEERING CODE CE92I3

COURSE AIM

TO UNDERSTAND THE STRESSES AND STRAINS FOR DIFFERENT TYPES OF LOADS FOR VARIOUS APPLICATIONS.

COURSE OBJECTIVE

- ◆ TO UNDERSTAND THE STRESSES DEVELOPED IN BEAMS UNDER TRANSVERSE LOAD
- ◆ TO UNDERSTAND THE SHEAR STRESS DEVELOPED DUE TO TENSIONAL LOAD
- ◆ TO UNDERSTAND THE STRESSES INDUCED IN CYLINDERS AND SPHERES DUE TO INTERNAL PRESSURE.

COURSE CONTENT

1. STRESS, STRAIN AND DEFORMATION OF SOLIDS.
2. TRANSVERSE LOADING ON BEAMS AND STRESSES IN BEAMS.
3. TORSION.
4. DEFLECTION OF BEAMS.
5. THIN CYLINDERS, SPHERES AND THICK CYLINDERS

REFERENCE BOOKS

1. RAJPUT, R.K. "STRENGTH OF MATERIALS" S. CHAND & CO LTD. NEW DELHI 1996
2. JINDAL U.C. "STRENGTH OF MATERIALS" ASIAN BOOKS PVT LTD, NEW DELHI 2007
1. EGOR, P. POPOV "ENGINEERING MECHANICS OF SOLIDS" PRENTICE HALL OF INDIA, NEW DELHI 1997
2. SUBRAMANIAN R. "STRENGTH OF MATERIALS" OXFORD UNIVERSITY PRESS, OXFORD HIGHER EDUCATION SERIES, 2007
3. HIBBELER, R.C. "MECHANICS OF MATERIALS", PEARSON EDUCATION, LOW PRICE EDITION, 2007

COURSE SOFTWARE

- ◆ APM WINMACHINE
- ◆ KOMPAS 2D/3D/PDM/BOM
- ◆ VARICAD 2D/3D/PDM/BOM
- ◆ DOCUMENTATION & PRINTING

APM WINMACHINE

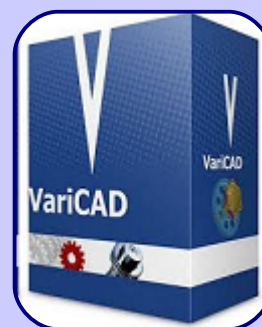
APM CAM/APM PLAIN/APM SCREW/APM STRUCTURE3D/APM DYNAMICS/APM BEAM/APM GRAPH/APM STUDIO
APM DRIVE/APM TRANS/APM SHAFT/APM BEAR/APM JOINT/APM SPRING/APM BASE/APM MECHANICAL DATA/APM MATERIAL DATA/APM SECTION DATA/APM CONSTRUCTION DATA/APM BOOK



APM WINMACHINE



KOMPAS 3D



VARICAD

DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
STRENGTH OF MATERIAL	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