



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

THEORY OF PLATES AND SHELLS

Paviath ONLINE

◆ MECH ALLIED ◆ AERONAUTICAL ENGINEERING ◆ SEMESTER VII ELECTIVES- II ◆ ENGINEERING CODE AE6603

### COURSE OBJECTIVE

TO STUDY THE BEHAVIOUR OF THE PLATES AND SHELLS WITH DIFFERENT GEOMETRY UNDER VARIOUS TYPES OF LOADS.

### COURSE OUTCOME

ABILITY TO USE DIFFERENT THEORIES TO PLATE AND SHELL  
PERFORM STABILITY AND FREE VIBRATION CALCULATIONS  
USE OF DIFFERENT METHODS FOR STABILITY ANALYSIS

### COURSE CONTENT

UNIT I CLASSICAL PLATE THEORY.  
UNIT II PLATES OF VARIOUS SHADES.  
UNIT III EIGENVALUE ANALYSIS.  
UNIT IV APPROXIMATE METHODS.  
UNIT V SHELLS

### REFERENCE BOOKS

1. TIMOSHENKO, S.P. WINDSKY, S., AND KREGER, "THEORY OF PLATES AND SHELLS", MCGRAW-HILL BOOK CO. 1990. 80
2. VARADAN, T. K. AND BHASKAR, K., "THEORY OF PLATES AND SHELLS", 1999. NAROSA.
1. FLUGGE, W. "STRESSES IN SHELLS", SPRINGER - VERLAG, 1985.
2. TIMOSHENKO, S.P. AND GERE, J.M., "THEORY OF ELASTIC STABILITY", MCGRAW-HILL BOOK CO. 1986.

### 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

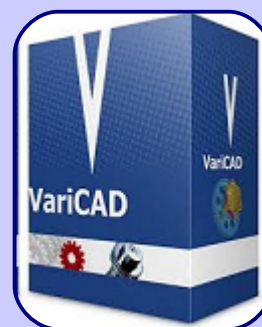
APM CAM/APM PLAIN/APM SCREW/APM STRUCTURE3D/APM DYNAMICS/APM BEAM/APM GRAPH/APM STUDIO  
APM DRIVE/APM TRANS/APM SHAFT/APM BEAR/APM JOINT/APM SPRING/APM BASE/APM MECHANICAL DATA/APM MATERIAL DATA/APM SECTION DATA/APM CONSTRUCTION DATA/APM BOOK



APM WINMACHINE



KOMPAS 3D



VARICAD

DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
THEORY OF PLATES AND SHELLS	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

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