



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

DYNAMICS OF MACHINES

Paviath ONLINE

◆ MECHANICAL UNIVERSITY ◆ SEMESTER – IV ◆ ENGINEERING CODE ME9253

COURSE AIM

TO IMPART THE KNOWLEDGE ABOUT THE EFFECT OF FORCES ON THE MACHINES AND THE METHODS TO CONTROL THEM

COURSE OBJECTIVE

- (I) TO UNDERSTAND THE FORCE-MOTION RELATIONSHIP IN COMPONENTS SUBJECTED TO EXTERNAL FORCES.
- (II) TO UNDERSTAND THE FORCE-MOTION ANALYSIS OF STANDARD MECHANISMS.
- (III) TO UNDERSTAND THE UNDESIRABLE EFFECTS OF UNBALANCES RESULTING FROM PRESCRIBED MOTIONS IN MECHANISM.
- (IV) TO UNDERSTAND THE EFFECT OF DYNAMICS OF UNDESIRABLE VIBRATIONS.
- (V) TO UNDERSTAND THE PRINCIPLES IN MECHANISMS USED FOR GOVERNING OF MACHINES.

COURSE CONTENT

1. FORCEANALYSIS. 2. BALANCING. 3. FREE VIBRATION. 4. FORCED VIBRATION. 5. MECHANISM FOR CONTROL.

REFERENCE BOOKS

1. AMBEKAR A.G. "MECHANISM AND MACHINE THEORY", PRENTICE HALL OF INDIA, NEW DELHI, 2007.
2. SHIGLEY J.E., PENNICK G.R., UICKER J.J., "THEORY OF MACHINES AND MECHANISMS", OXFORD UNIVERSITY PRESS, 2003.

1. THOMAS BEVAN, "THEORY OF MACHINES", CBS PUBLISHERS AND DISTRIBUTORS, 1984.
2. GHOSH A. AND MALICK A.K., "THEORY OF MECHANISMS AND MACHINES", AFFILIATED EAST-WEST PRESS PVT. LTD., NEW DELHI, 1988.
3. RAD J.S. AND DIKKIPATI R.V., "MECHANISM AND MACHINE THEORY", WILEY-EASTERN LIMITED, NEW DELHI, 1992.

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

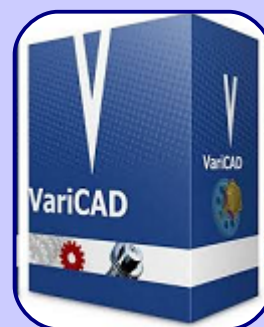
APM CAM/APM PLAIN/APM SCREW/APM STRUCTURE3D/APM DYNAMICS/APM BEAM/APM GRAPH/APM STUDIO
APM DRIVE/APM TRANS/APM SHAFT/APM BEAR/APM JOINT/APM SPRING/APM BASE/APM MECHANICAL DATA/APM MATERIAL DATA/APM SECTION DATA/APM CONSTRUCTION DATA/APM BOOK



APM WINMACHINE



KOMPAS 3D



VARICAD

DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
DYNAMICS OF MACHINES	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