



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

THEORY OF MACHINES

Paviath ONLINE

◆ MECH ALLIED ◆ AGRICULTURE ENGINEERING ◆ SEMESTER III ◆ ENGINEERING CODE AIG304

COURSE OBJECTIVE

TO INTRODUCE THE STUDENTS THE THEORY OF MACHINES PERTAINING TO AGRICULTURAL ENGINEERING

COURSE OUTCOME

BASIC KNOWLEDGE ON THE FRICTION APPLICATIONS, GEAR AND GEAR TRAINS.
LEARN THE FUNDAMENTALS RELATED TO MOTION OF CAM AND FOLLOWER AND FLY WHEEL BALANCING

COURSE CONTENT

UNIT I TERMINOLOGY.
UNIT II FRICTION AND APPLICATIONS.
UNIT III MOTION OF CAM AND FOLLOWER.
UNIT IV GEARS AND GEAR TRAINS.
UNIT V FLYWHEEL AND BALANCING

REFERENCE BOOKS

1. RATTAN, S.S. THEORY OF MACHINES, 3RD EDITION, TATA MCGRAW-HILL, 2009.
2. KHURMI, R.S. AND GUPTA, J.K. THEORY OF MACHINES, EURASIA PUBLICATION HOUSE, 1994.

1. THOMAS BEVEN, THEORY OF MACHINES, CBS PUBLISHERS AND DISTRIBUTORS, NEW DELHI, 1984.
2. BALLANEY, P.L. THEORY OF MACHINES, KHANNA PUBLISHERS, NEW DELHI, 1994
3. [HTTP://WWW.SOFTINTEGRATION.COM/CHHTML/TOOLKIT/MECHANISM/](http://www.softintegration.com/CHHTML/TOOLKIT/MECHANISM/)

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

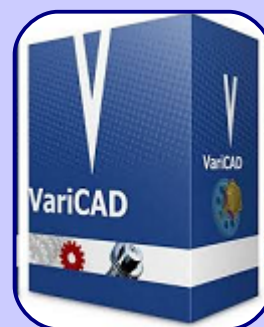
APM CAM/APM PLAIN/APM SCREW/APM STRUCTURE3D/APM DYNAMICS/APM BEAM/APM GRAPH/APM STUDIO
APM DRIVE/APM TRANS/APM SHAFT/APM BEAR/APM JOINT/APM SPRING/APM BASE/APM MECHANICAL DATA/APM MATERIAL DATA/APM SECTION DATA/APM CONSTRUCTION DATA/APM BOOK



APM WINMACHINE



KOMPAS 3D



VARICAD

| DESCRIPTION | ONLINE | TRAINING CENTRE | WEBINAR | REMARKS |
|--------------------|--------------------------|-------------------|-----------------|-----------------|
| THEORY OF 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 |

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