



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

MECHANICS OF MARINE MACHINES

Paviath ONLINE

◆ MECH ALLIED ◆ MARINE ENGINEERING ◆ SEMESTER V ◆ ENGINEERING CODE MV6505

COURSE OBJECTIVE

TO IMPART THEORETICAL KNOWLEDGE ABOUT MECHANISM OF MACHINERY, BALANCING AND VIBRATION OF MACHINES AND ASSOCIATED SYSTEM COMPONENTS AND EQUIPMENT.

1. SHINGLEY, J.E. & JOHN JOSEPH UIVKER, JR., "THEORY OF MACHINES AND MECHANISMS", 2ND ED., MCGRAW - HILL INTERNATIONAL EDITIONS, LONDON, 1981.
2. GHOSH A. AND MALIK, A.M. "THEORY OF MECHANISMS AND MACHINES", 2ND ED., AFFILIATED EAST - WEST PRESS PVT. LTD., NEW DELHI, 1988.
3. FRANCIS, TSE, IVAN E-MORSE ROLLAND T. HINKLE, "MECHANICAL VIBRATIONS", 2ND ED., CBS PUBLISHERS AND DISTRIBUTED, INDIA, 1983

COURSE OUTCOME

- VELOCITY AND ACCELERATION OF VARIOUS KINEMATIC LINKAGES
- FOUR BAR AND SLIDER CRANK MECHANISMS USING ANALYTICAL AND GRAPHICAL METHODS.
- FORCE ANALYSIS OF MECHANISMS AND TURNING MOMENT DIAGRAMS AND FLYWHEEL.
- VARIOUS PARAMETERS OF GEARS AND GEAR TRAINS.
- GOVERNORS AND GYROSCOPES.
- CONCEPT OF BALANCING.
- FREE AND FORCED VIBRATION OF SINGLE DEGREE OF FREEDOM SYSTEMS. TWO AND MULTI DEGREE FREEDOM SYSTEMS.

COURSE CONTENT

UNIT I MECHANISMS.
UNIT II THEORY OF GEARING.
UNIT III CONTROL MECHANISMS.
UNIT IV BALANCING.
UNIT V VIBRATION

4. THOMSON, W.T. AND DAHLEH, M.D., "THEORY OF VIBRATION WITH APPLICATIONS" 5TH ED., PEARSON, 2005
5. GROVER, G.K., "MECHANICAL VIBRATIONS", 7TH EDITION, NEW CHAND & BROS., ROORKEE, INDIA, 2001.
6. THOMAS BEVAN, "THEORY OF MACHINES", 1ST ED., PEARSON, 2011 MV6506.

REFERENCE BOOKS

1. RATTAN S.S., "THEORY OF MACHINES", TATA MCGRAW-HILL PUBLISHING COMPANY LTD., NEW DELHI, 1988.
2. GORDON JOHN ROY, "STEAM TURBINES AND GEARING MARINE ENGINEERING SERIES", 1ST ED., STANFORD MARITIME LIMITED, 1984
3. SANDHU SINGH, "THEORY OF MACHINES", 3RD ED., PEARSON, 2012
4. RAD, J.S. AND DUKKIPATIL R.V., "MECHANISM AND MACHINERY THEORY", 2ND EDITION, NEW AGE INTERNATIONAL, MUMBAI, 1992.
5. SRIKANT BHAVE, "MECHANICAL VIBRATIONS", 1ST ED., PEARSON, 2010

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

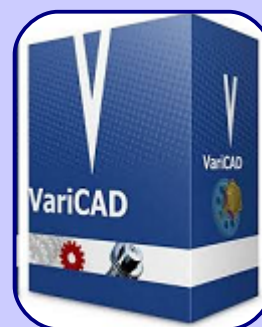
APM CAM/APM PLAIN/APM SCREW/APM STRUCTURE3D/APM DYNAMICS/APM BEAM/APM GRAPH/APM STUDIO
APM DRIVE/APM TRANS/APM SHAFT/APM BEAR/APM JOINT/APM SPRING/APM BASE/APM MECHANICAL DATA/APM MATERIAL DATA/APM SECTION DATA/APM CONSTRUCTION DATA/APM BOOK



APM WINMACHINE



KOMPAS 3D



VARICAD

DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
MECHANICS OF MARINE 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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