



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

MARINE SYSTEMS AND MACHINERY DESIGN

Paviath ONLINE

◆ MECH ALLIED ◆ MARINE ENGINEERING ◆ SEMESTER V ◆ ENGINEERING CODE MV6501

COURSE OBJECTIVE

TO IMPART TRAINING AND KNOWLEDGE TO THE STUDENTS ABOUT MARINE MACHINERY SYSTEM AND DESIGN.

3. PANDYA & SHAH, "MACHINE DESIGN", 13TH EDITION, CHAROTAR PUBLISHING HOUSE, GUJARATH, 1997.
4. D.A. TAYLOR, "MARINE CONTROL PRACTICE", 2ND EDITION, BUTTER WORTH & CO (PUBLISHERS) LTD., LONDON, 1987
5. ASME STANDARD TECHNOLOGY, "A GUIDE TO AMERICAN CRANE STANDARDS", ASME, 2008

COURSE OUTCOME

- USING DIFFERENT TYPES OF BEARINGS.
- DESIGN OF IC ENGINE PARTS AND GEARS.
- DESIGN OF MARINE MACHINERY SYSTEMS.

COURSE CONTENT

UNIT I SLIDING AND ROLLING CONTACT BEARINGS.
UNIT II SPUR, HELICAL BEVEL AND WORM GEARS.
UNIT III IC ENGINE PARTS.
UNIT IV VALVES & LIFTING DEVICES.
UNIT V DESIGN CRITERIA FOR MARINE SYSTEMS.

REFERENCE BOOKS

1. JINDAL, U.C., "MACHINE DESIGN", 1ST ED., PEARSON, 2010
2. LESLIE JACKSON, "INSTRUMENTATION AND CONTROL SYSTEMS", 3RD EDITION, THOMAS REED PUBLICATION LTD, LONDON, 1992.
3. SMITH, "APPLICATION OF AUTOMATIC MACHINERY AND ALARM EQUIPMENT IN SHIPS", MARINE ENGINEERING PRACTICE, VOL I (PART 06, IMAREST, LONDON
4. PEARSON, G.H., "VALVE DESIGN", 1ST ED., MECHANICAL ENGINEERING PUBLICATIONS", 1978
5. KRISHNA RAU, T., "DESIGN OF MACHINE ELEMENTS", 1ST ED., VOL.2, I K INTERNATIONAL PUBLISHING HOUSE PVT. LTD., 2010
1. INDIAN REGISTER OF SHIPPING PART I TO PART 7, "RULES AND REGULATIONS & CLASSIFICATION OF STEEL SHIPS", 1ST EDITION, MUMBAI, 1999.
2. SAM HAD DAD, NEIL WATSON, "DESIGN AND APPLICATION IN DIESEL ENGINES", 1ST EDITION, ELLIS HODRWOOD LIMITED, LONDON, 1984.

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

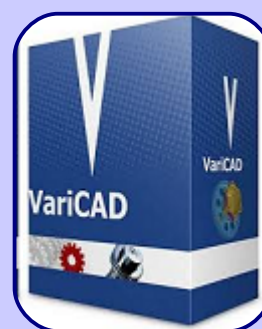
APM CAM/APM PLAIN/APM SCREW/APM STRUCTURE3D/APM DYNAMICS/APM BEAM/APM GRAPH/APM STUDIO
APM DRIVE/APM TRANS/APM SHAFT/APM BEAR/APM JOINT/APM SPRING/APM BASE/APM MECHANICAL DATA/APM MATERIAL DATA/APM SECTION DATA/APM CONSTRUCTION DATA/APM BOOK



APM WINMACHINE



KOMPAS 3D



VARICAD

DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
MARINE SYSTEMS AND MACHINERY DESIGN	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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