



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG SPECIALIZED

MECHANICAL

FLUID POWER DRIVES AND CONTROL

Paviath ONLINE

◆ SYLLABUS PROGRAM ◆ FLUID POWER DRIVES AND CONTROL ◆ SPECIALIZED BRANCH

COURSE OBJECTIVE

TO UNDERSTAND THE WORKING PRINCIPLE OF HYDRAULIC AND PNEUMATIC COMPONENTS AND ITS SELECTION
TO DESIGN HYDRAULIC AND PNEUMATIC CIRCUITS FOR DIFFERENT APPLICATIONS

COURSE CONTENTS

UNIT I INTRODUCTION TO FLUID POWER & HYDRAULICS PRINCIPLE.
UNIT II FLUID POWER DRIVES.
UNIT III FLUID POWER ELEMENTS.
UNIT IV HYDRAULIC AND PNEUMATIC CIRCUITS DESIGN.
UNIT V ELECTRO PNEUMATICS AND PLC CIRCUITS

COURSE OUTCOME

IDENTIFY HYDRAULIC AND PNEUMATICS COMPONENTS. ABILITY TO DESIGN HYDRAULIC AND PNEUMATICS CIRCUITS.

REFERENCE BOOKS

1. ANTHONY ESPOSITO "FLUID POWER WITH APPLICATIONS", 5TH EDITION, PEARSON EDUCATION 2003.
2. MAJUMDAR, "OIL HYDRAULICS: PRINCIPLES AND MAINTENANCE", TATA MCGRAW HILL, 2004
3. MAJUMDAR, "PNEUMATIC SYSTEM: PRINCIPLES AND MAINTENANCE", TATA MCGRAW HILL, 2004
4. SRINIVASAN, R., "HYDRAULIC AND PNEUMATIC CONTROLS", VIJAY NICOLE IMPRINTS PRIVATE LIMITED, 2011.
1. WILLIAM W. REAVES, "TECHNOLOGY OF FLUID POWER", DELMER PUBLISHERS, 1997.
2. PETOR ROHNER, "FLUID POWER LOGIC CIRCUIT", DESIGN MACMILLON PRESS LTD., 1990.
3. ANDREW PARR "HYDRAULICS & PNEUMATICS, JACO PUBLISHING HOUSE, 2004

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

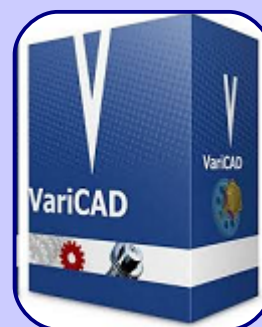
APM CAM/APM PLAIN/APM SCREW/APM STRUCTURE3D/APM DYNAMICS/APM BEAM/APM GRAPH/APM STUDIO
APM DRIVE/APM TRANS/APM SHAFT/APM BEAR/APM JOINT/APM SPRING/APM BASE/APM MECHANICAL DATA/APM MATERIAL DATA/APM SECTION DATA/APM CONSTRUCTION DATA/APM BOOK



APM WINMACHINE



KOMPAS 3D



VARICAD

PRODUCTION ENGG	MECH & AUTOMATION ENGG	MECH ENGG (SANDWICH)	ROBOTICS AND AUTOMATION	MECHATRONICS ENGG
FLUID POWER DRIVES AND CONTROL	APPLIED HYDRAULICS AND PNEUMATICS	HYDRAULICS AND PNEUMATICS		APPLIED HYDRAULICS AND PNEUMATICS
SEMESTER IV	SEMESTER IV	ELECTIVE II		SEMESTER VI
PR6403	MT6602	MF6504		MT6602
DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
FLUID POWER DRIVES AND CONTROL	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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