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# PAVIATH INTEGRATED SOLUTION

POLYTECH

MECHANICAL

ZEEGIVE BRIKEUZE AEHIGTE

Paviath ONLINE

◆ MECHANICAL ENGINEERING GROUP ◆ SIXTH SEMESTER ◆ POLYTECHNIC CODE AEI

## COURSE AIM

- ◆ UNDERSTANDING THE CONCEPT OF MACHINES ◆ MECHANISMS AND THEIR ELEMENTS
- ◆ STUDYING KINEMATICS ASPECTS OF VARIOUS LINKS IN MECHANISMS
- ◆ FOUNDATION FOR KINEMATICS SYNTHESIS, ANALYSIS
- ◆ DESIGN OF MECHANISMS
- ◆ UNDERSTANDING ANALYSIS ◆ TYPES OF LOADS, STRESSES & STRAINS
- ◆ MAIN CAUSES OF FAILURE OF MACHINE PARTS
- ◆ PRINCIPLES OF MACHINE DESIGN
- ◆ MECHANICAL PROPERTIES OF MATERIALS
- ◆ SELECTING MATERIALS FOR ENGINEERING APPNS

### COURSE OBJECTIVE

- ◆ KNOW IMPORTANCE OF EARTH MOVING MACHINES & AGRICULTURAL MACHINES IN INDIA.
- ◆ IDENTIFY VARIOUS SYSTEMS & SUBSYSTEMS OF EARTH MOVING MACHINES & AGRICULTURAL MACHINES
- ◆ EXPLAIN WORKING & CONSTRUCTION OF VARIOUS SYSTEMS & SUBSYSTEMS IN EARTH MOVING MACHINES & AGRICULTURAL MACHINES
- ◆ CARRY OUT PREVENTIVE MAINTENANCE OF EARTH MOVING MACHINES & AGRICULTURAL MACHINES.

## COURSE CONTENTS

- ◆ EARTH MOVING MACHINES
- ◆ INTRODUCTION
- **◆ TRACTOR DOZER**
- ◆ LINE (ROPE OPERATED EXCAVATOR)
- **◆ LOADERS & EXCAVATORS**
- **◆ TRACTOR**
- ◆ FORKLIFT TRUCK
- ◆ TIPPER & ROAD ROLLER

## REFERENCE BOOKS

- ◆ JAGMAN SINGH ART OF EARTH MOVING
- ◆ RADICHEV TRACTORS AND AUTOMOBILE
- ◆ BURGE TRACTORS AND THEIR POWER UNITS
- ◆ TRUCKER EARTH MOVING PLANT

### SAM (SYNTHESIS ANALYSIS MECHANISM)

- ◆ GENERAL◆ DESIGN WIZARDS ◆ MODELLING
- ◆ INPUT MOTION ◆ CAD INTERFACE
- ◆ ANALYSIS ◆ RESULTS SALTIRE SOFTWARE
- **◆ MATHS ILLUSTRATIONS**
- ◆ GEOMETRY EXPRESSIONS
- ◆ MECHANICAL EXPRESSIONS
- ◆ ANALYTIS CAM

### APM WINMACHINE

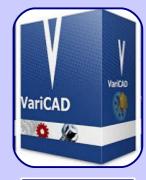
APM CAM/APM PLAIN/APM SCREW/APM STRUCTURE3D/APM DYNAMICS/APM BEAM/APM GRAPH/APM STUDIO APM DRIVE/APM TRANS/APM SHAFT/APM BEAR/APM JOINT/APM SPRING/APM BASE/APM MECHANICAL DATA/APM MATERIAL DATA/APM SECTION DATA/APM CONSTRUCTION DATA/APM BOOK











**APM WINMACHINE** 

SALTIRE SOFTWARE

ARTAS SAM

KOMPAS 3D

VARICAD

DESCRIPTION	DNLINE	TRAINING CENTRE	WEBINAR	REMARKS
SPECIAL PURPOSE VEHICLE	REGISTRATION	DOCUMENTS	COUNSELLING	OWN LAPTOP
ONLINE	2/UNIT TRAINING	4/UNIT ASSIGNMENT	2/UNIT ASSIGNED	SHEDULE
PRESENTATION	WEBINAR	NETWORK	PRESENTATION	2/UNIT ASSIGNED
PERIOD	2 HRS/I/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