PAVIATH INTEGRATED SOLUTION

COMPUTER AIDED DESIGN

◆ MECHANICAL ENGINEERING ◆ ELECTIVE SUBJECT ◆ ENGINEERING CODE PEC-MEL 325

COURSE OBJECTIVE
TO PROVIDE AN OVERVIEW OF HOW COMPUTERS CAN BE UTILIZED IN MECHANICAL COMPONENT DESIGN

COURSE OUTCOME
• UPON COMPLETING THIS COURSE THE STUDENTS WILL BE ABLE TO DESIGN TRANSMISSION SYSTEMS FOR ENGINES AND MACHINES.

COURSE CONTENT
FLEXIBLE TRANSMISSION ELEMENTS. GEAR TRANSMISSION. STRAIGHT BEVEL GEAR. GEAR BOX. CAM DESIGN.

REFERENCE BOOKS
1. SHIGLEY J., MISCHKE C., BUDYNAS R. AND NISBETT K., MECHANICAL ENGINEERING DESIGN, 8TH ED., TATA MCGRAW HILL, 2010.
2. JINDAL U.C., MACHINE DESIGN: DESIGN OF TRANSMISSION SYSTEM, DORLING KINDERSLEY, 2010.
3. MAITRA G. AND PRASAD L., HANDBOOK OF MECHANICAL DESIGN, 2ND ED., TATA MCGRAW HILL, 2001.

COURSE SOFTWARE
◆ APM WINMACHINE (MULTIPHYSICS)
◆ KOMPAS 2D/3D/PDM/BOM
◆ VARICAD 2D/3D/PDM/BOM
◆ UNIVERSAL MECHANISM(MBD).
◆ SAM (MECHANISM DESIGN)
◆ SALTIRE SOFTWARE
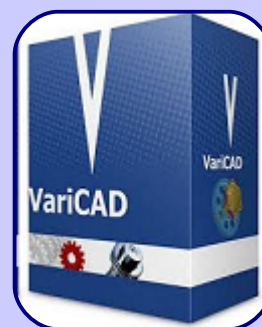◆ DOCUMENTATION & PRINTING

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
COMPUTER AIDED DESIGN	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/1/UNIT IN SEQUENCE	NETWORKING/HRS*	PRESENTATION	* BROWSING FEE
PRICE (SEMESTER)	BY MAIL	* BROWSING FEE	NO COST	CERTIFICATE