



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

COMPUTER AIDED DESIGN & MANUFACTURE

Paviath ONLINE

◆ MECHANICAL UNIVERSITY ◆ SEMESTER – VI ◆ ENGINEERING CODE ME9354

**COURSE AIM**  
TO LEARN THE IMPORTANCE AND USE OF  
COMPUTER IN DESIGN AND MANUFACTURE

**COURSE OBJECTIVE**  
◆ TO PROVIDE AN OVERVIEW OF HOW COMPUTERS ARE  
BEING USED IN DESIGN, DEVELOPMENT OF  
MANUFACTURING PLANS AND MANUFACTURE  
◆ TO UNDERSTAND THE NEED FOR INTEGRATION OF CAD  
AND CAM

**COURSE CONTENT**  
UNIT I COMPUTER AIDED DESIGN.  
UNIT II GEOMETRIC MODELLING.  
UNIT III CAD STANDARDS AND CAD CAM  
INTERFACE.  
UNIT IV MANUFACTURING ASPECTS.  
UNIT V PRODUCTION PLANNING AND CONTROL

**REFERENCE BOOKS**  
1. CHRIS MCMAHON AND JIMMIE BROWNE "CAD/CAM PRINCIPLES, PRACTICE  
AND MANUFACTURING MANAGEMENT" PEARSON EDUCATION ASIA – 2001  
2. P.N.RAO "CAD/CAM PRINCIPLES AND APPLICATIONS" TATA MCGRAW-HILL  
PUBLISHING CO. NEW DELHI – 2002  
1. IBRAHIM ZEID "CAD CAM THEORY AND PRACTICE" TATA MCGRAW-HILL  
PUBLISHING CO.1998

**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

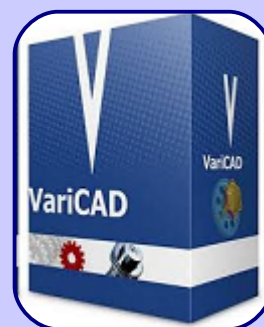
**APM WINMACHINE**  
APM CAM/APM PLAIN/APM SCREW/APM  
STRUCTURE3D/APM DYNAMICS/APM  
BEAM/APM GRAPH/APM STUDIO  
APM DRIVE/APM TRANS/APM SHAFT/APM  
BEAR/APM JOINT/APM SPRING/APM  
BASE/APM MECHANICAL DATA/APM  
MATERIAL DATA/APM SECTION DATA/APM  
CONSTRUCTION DATA/APM BOOK



APM WINMACHINE



KOMPAS 3D



VARICAD

DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
COMPUTER AIDED DESIGN & MANUFACTURE	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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