

DEMAND

# PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

PRODUCT DESIGN AND DEVELOPMENT

Paviath ONLINE

◆ MECHANICAL UNIVERSITY ◆ ELECTIVES - I ◆ ENGINEERING CODE MF9021

### COURSE AIM

SEQUENCE OF PROCEDURE FOR PRODUCT DEVELOPMENT OR REVERSE ENGINEERING

CONCEPT LITERATURE FROM BASIC SCIENCE AND INNOVATION LITERATURE CONCEPT MODELLING FROM MECHANISM DESIGN-LAYOUT-ELEMENT-ASSEMBLY-MILITIRODY

KINEMATIC ANALYSIS-KINETOSTATIC ANALYSIS-COMPARING ANALYSIS REPORT OF Existing product

EASING PRODUCT

POTIMIZING VALUE FOR SPECIFICATION ON KINEMATICS & KINETOSTATICS VALUE
20/30/BDM PRODESS DEAWING FOR MANUFACTURING PROTOTYPE
TESTING PROTOTYPE ON NOISE & VIBRATION, OTHER PARAMETERS
ACCURACY ON GRADE WILL DECIDE APPLICATION & COST

COMPARING AND OPTIMIZING TESTING VALUES ON UNCERTERNITY WITH ◆
MATHEMATICAL MODELLING ◆ MECHANISM DESIGN ◆ MATHEMATICAL
TECHNOLOGY ◆ MULTIBODY DYNAMICS PROGRAMS DUTPUT

COURSE OBJECTIVE

TO IMPART KNOWLEDGE ON PRINCIPLES AND PRACTICES OF PRODUCT DESIGN CONSIDERING THE CUSTOMER WANTS AND NEFOS.

COURSE CONTENT

UNIT I PRODUCT DEVELOPMENT PROCESS.
UNIT II ESTABLISHING THE PRODUCT
SPECIFICATIONS.

UNIT III CONCEPT SELECTION. UNIT IV NEED FOR INDUSTRIAL DESIGN. UNIT V PRINCIPLES OF PROTOTYPING.

#### REFERENCE BOOKS

I. KARAL, T.ULRICH STEVEN D.EPPINGER, PRODUCT DESIGN AND DEVELOPMENT, MCGRAW HILL, INTERNATIONAL EDITIONS, 2003.

1. S.ROSENTHAL, EFFECTIVE PRODUCT DESIGN AND DEVELOPMENT, IRWIN, 1992. 2. Charles Gevirtz Developing New Products with Tom, McGraw Hill International Footions, 1994

# 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
PRODUCT DESIBN AND Development	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

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