

DEMAND

# PAVIATH INTEGRATED SOLUTION

ENGG SPECIALIZED

MECHANICAL

**PRODUCT DESIGN AND DEVELOPMENT** 

Paviath ONLINE

## ◆ SYLLABUS PROGRAM ◆ PRODUCT DESIGN AND DEVELOPMENT ◆ SPECIALIZED BRANCH

#### **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-assemblywill trony

KINEMATIC ANALYSIS-KINETOSTATIC ANALYSIS-COMPARING ANALYSIS REPORT OF EXISTING PRODUCT

OPTIMIZING VALUE FOR SPECIFICATION ON KINEMATICS & KINETOSTATICS VALUE 20/30/80m/PROCESS DRAWING FOR MANUFACTURING PROTIDITYE TESTING PROTIOTYEE ON NOISE & URRATION, OTHER PREAMETERS ACCURACY ON GRADE WILL DECIDE APPLICATION & COST

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

#### COURSE CONTENTS

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

#### COURSE OBJECTIVE

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

#### 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 EDITIONS, 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

			_	
PRODUCTION ENGG	MECH & AUTOMATION ENGG	MECH ENGG (SANDWICH)	ROBOTICS AND AUTOMATION	MECHATRONICS ENGG
		PRODUCT DESIGN AND Development		PRODUCT DESIGN AND Development
		ELECTIVE V		SEMESTER VI Elective i
		IEGOII		IE60II
DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
PRODUCT DESIGN 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/1/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