

PAVIATH INTEGRATED SOLUTION

POLYTECH

MECHANICAL

AUTOMOBILE COMPONENT DESIGN

Paviath ONLINE

◆ MECHANICAL ENGINEERING GROUP ◆ FIFTH SEMESTER ◆ POLYTECHNIC CODE AE

COURSE AIM

- ◆ TO GAIN THE KNOWLEDGE AND SKILLS NEEDED
- IN AUTOMOTIVE DESIGN AND PRODUCTION.
- ◆ TO DEVELOP SKILLS IN COMPUTER-AIDED
- DESIGN AND MANUFACTURE (CAD/CAM).
- ◆ TO STUDY THE PROCESS OF ENGINEERING PROBLEM SOLVING.

REFERENCE BOOKS

- ◆ R.K.JAIN MACHINE DESIGN ◆ R.S.KHURMI & J.K.GUPTA MACHINE DESIGN
- ◆ PANDYA & SHAH MACHINE DESIGN
- ◆ P C SHARMA D K AGGARWAL MACHINE DESIGN
- ◆ R B GUPTA AUTO DESIGN
- ◆ N.K GIRI. PROBLEMS IN AUTOMOBILE ENGINEERING
- ◆ K M AGGARWAL AUTO DESIGN PROBLEMS
- ◆ GRILES AUTOMOBILE DESIGN VOL,2,3
- ♦ J.E. SHIGLEY MACHINE DESIGN
- ◆ MACHINE TOOL DESIGN HANDBOOK CMTI
- ◆ DESIGN DATA BOOK P S G

PRICE (SEMESTER)

◆ ROBERT L. NORTON MACHINE DESIGN AN INTEGRATED APPROACH

◆ ANALYZE THE LOADS, TYPE OF INDUCED STRESSES, RESISTING AREAS & HENCE THE MODES OF FAILURE.

COURSE OBJECTIVE

- ◆ IDENTIFY MODES OF FAILURE & RELEVANT THEORY FOR PROBLEM SOLVING.
- ◆ ANALYZE PRACTICAL PROBLEMS & MAKE USE OF MATERIALS, STRENGTH EQUATIONS, FACTOR OF SAFETY FTC
- USE DESIGN DATA BOOK TO STANDARDIZE COMPONENT DIMENSIONS, AND TO SELECT

SAM (SYNTHESIS ANALYSIS MECHANISM)

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

COURSE CONTENTS

- ◆ BASIC CONCEPTS OF DESIGN. DESIGN OF MACHINE ELEMENTS
- ◆ DESIGN OF SHAFTS, KEYS & COUPLINGS
- DESIGN OF LEVERS
- DESIGN OF CHASSIS COMPONENT
- DESIGN OF ENGINE COMPONENTS.

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

	Saltire		Example 2 and 2 an	VariCAD
APM WINMACHINE	SALTIRE SOFTWARE	ARTAS SAM	KOMPAS 3D	VARICAD
DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
AUTOMOBILE Component design	REGISTRATION	DOCUMENTS	COUNSELLING	OWN LAPTOP

PRESENTATION WEBINAR NETWORK PRESENTATION 2/UNIT ASSIGNED

> * BROWSING FEE CERTIFICATE NO COST

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