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PAVIATH INTEGRATED SOLUTION

POLYTECH

MECHANICAL

AUTOMOBILE TRANSMISSION SYSTEM

Paviath ONLINE

◆ MECHANICAL ENGINEERING GROUP ◆ THIRD SEMESTER ◆ POLYTECHNIC CODE AE

### COURSE AIM

- ◆ TO ACQUAINT STUDENTS WITH THE MARKET NEEDS AND MECHANICAL DESIGN TRENDS IN AUTOMOTIVE INDUSTRY
- ◆ TO PROVIDE STUDENTS FUNDAMENTAL KNOWLEDGE OF KEY AUTOMOTIVE MECHANICAL SYSTEMS, PARTS, AND THEIR INTEGRATION
- ◆ TO ENRICH STUDENTS' ABILITY IN UTILIZING DESIGN, ENGINEERING & MARKETING KNOWLEDGE IN PRODUCT DEVELOPMENT OF AUTOMOTIVE MECHANICAL PARTS & THEIR INTEGRATION.

### REFERENCE BOOKS

- ◆ ANTHONY SCHWALLER MOTOR AUTOMOTIVE TECHNOLOGY
- ◆ TIM GILLS AUTOMOTIVE SERVICE
- ◆ ANIL CHIKKARA AUTOMOBILE ENGINEERING VOL. II
- ◆ CROUSE / ANGLIN, AUTOMOBILE MECHANICS
- ◆ KIRPAL SINGH AUTOMOBILE ENGINEERING VOL.I
- ◆ HARBANS SINGH ROYAT THE AUTOMOBILE
- ◆ R.B. GUPTA AUTOMOBILE ENGINEERING
- ◆ S. SRINIVASAN AUTOMOTIVE MECHANICS
- ◆ H M SETHI AUTOMOTIVE TECHNOLOGY
- ◆ R.K RAJPUT A TEXT BOOK OF AUTOMOBILE ENGG
- ◆ JOHN WHIPP TRANSMISSION CHASSIS & RELATED SYSTEMS

### COURSE OBJECTIVE

- ◆ UNDERSTANDING THE VEHICLE LAYOUTS, CHASSIS FRAME & LOCATION OF VARIOUS SYSTEMS.
- ◆ PRINCIPLE, CONSTRUCTION AND WORKING OF CLUTCH, GEARBOXES, PROPELLER SHAFTS, UNIVERSAL JOINTS, SLIP JOINTS & FINAL DRIVE IN THE TRANSMISSION SYSTEM.
- ◆ UNDERSTAND THE TERMINOLOGY OF WHEELS & TYRES. ◆ COMPARE VARIOUS TYPES OF TRANSMISSION SYSTEMS.

### COURSE CONTENTS

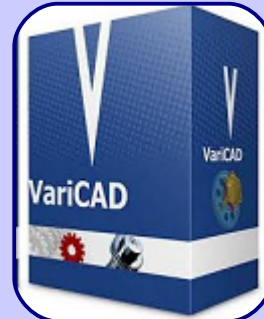
- ◆ VEHICLE LAYOUT & CHASSIS FRAME
- ◆ CLUTCHES, GEAR BOXES, PROPELLER SHAFTS, UNIVERSAL JOINTS & SLIP JOINTS
- ◆ FINAL DRIVE, WHEELS AND TYRES

### SAM (SYNTHESIS ANALYSIS MECHANISM)

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

### 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

SALTIRE SOFTWARE

ARTAS SAM

KOMPAS 3D

VARICAD

DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
AUTOMOBILE TRANSMISSION SYSTEM	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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