



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

AUTOMOTIVE CHASSIS COMPONENTS DESIGN

Paviath ONLINE

◆ MECH ALLIED ◆ AUTOMOBILE ENGINEERING ◆ SEMESTER VI ◆ ENGINEERING CODE AT6602

COURSE OBJECTIVE

THE STUDENT WILL BE ABLE TO UNDERSTAND THE FUNDAMENTAL PRINCIPLES INVOLVED IN DESIGN OF COMPONENTS OF AUTOMOTIVE CHASSIS, THE COMPLETE DESIGN EXERCISE AND ARRIVE AT IMPORTANT DIMENSIONS OF CHASSIS COMPONENTS.

COURSE OUTCOME

AT THE END OF THE COURSE, THE STUDENT CAN ABLE TO DESIGN THE AUTOMOTIVE COMPONENTS LIKE FRAME, SUSPENSION SYSTEMS, AXLES, CLUTCH, GEAR BOX, DRIVE LINE COMPONENTS ETC

COURSE CONTENT

UNIT I VEHICLE FRAME AND SUSPENSION.
UNIT II FRONT AXLE AND STEERING SYSTEMS.
UNIT III CLUTCH.
UNIT IV GEAR BOX.
UNIT V DRIVE LINE AND REAR AXLE

REFERENCE BOOKS

1. GIRI, N.K., "AUTOMOBILE MECHANICS", KHANNA PUBLISHERS, NEW DELHI, 2007.
2. KHURMI, R.S. & GUPTA, J.K., "A TEXTBOOK OF MACHINE DESIGN", EURASIA PUBLISHING HOUSE (PVT) LTD, 2001.
1. HELDT, P.M., "AUTOMOTIVE CHASSIS", CHILTON BOOK CO., 1992.
2. DEAN AVERNS, "AUTOMOBILE CHASSIS DESIGN", ILIFE BOOK CO., 2001.

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

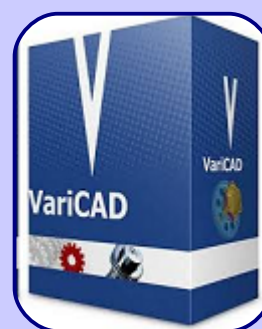
APM CAM/APM PLAIN/APM SCREW/APM STRUCTURE3D/APM DYNAMICS/APM BEAM/APM GRAPH/APM STUDIO
APM DRIVE/APM TRANS/APM SHAFT/APM BEAR/APM JOINT/APM SPRING/APM BASE/APM MECHANICAL DATA/APM MATERIAL DATA/APM SECTION DATA/APM CONSTRUCTION DATA/APM BOOK



APM WINMACHINE



KOMPAS 3D



VARICAD

DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
AUTOMOTIVE CHASSIS COMPONENTS DESIGN	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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