



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

AUTOMOTIVE CHASSIS

Paviath ONLINE

◆ MECH ALLIED ◆ AUTOMOBILE ENGINEERING ◆ SEMESTER IV ◆ ENGINEERING CODE AT6402

COURSE OBJECTIVE

STUDY OF THE CONSTRUCTIONAL DETAILS AND THEORY OF IMPORTANT DRIVE LINE, STRUCTURAL, STEERING, BRAKING AND SUSPENSION SYSTEMS OF AUTOMOBILES. PROBLEM-SOLVING IN STEERING MECHANISM, PROPELLER SHAFT, BRAKING AND SUSPENSION SYSTEMS ARE TO BE DONE.

COURSE OUTCOME

- THE STUDENTS WILL UNDERSTAND THE CONSTRUCTIONAL, WORKING PRINCIPLE OF VARIOUS SUB SYSTEM OF AN AUTOMOBILE.

COURSE CONTENT

UNIT I LAYOUT, FRAME, FRONT AXLE AND STEERING SYSTEM.
UNIT II DRIVE LINE, FINAL DRIVE AND DIFFERENTIAL.
UNIT III REAR AXLES, WHEELS, RIMS AND TYRES.
UNIT IV SUSPENSION SYSTEM.
UNIT V BRAKE SYSTEMS.

REFERENCE BOOKS

1. NEWTON STEEDS AND GARRET, "MOTOR VEHICLES" 13TH EDITION, BUTTERWORTH, LONDON, 2005.
2. HEINZ HAZLER, "MODERN VEHICLE TECHNOLOGY", BUTTERWORTH, LONDON, 2005.
3. DEVARADJANE, DR. G., DR. M. KUMARASAN, "AUTOMOBILE ENGINEERING", AMK PUBLISHERS, 2013.
1. HELOT P.M., "AUTOMOTIVE CHASSIS" CHILTON CO., NEW YORK, 1990
2. GIRL N.K., "AUTOMOTIVE MECHANICS" KHANNA PUBLISHERS, NEW DELHI, 2005.
3. MILLIKEN & MILLIKEN, "RADE CAR VEHICLE DYNAMICS", SAE, 1995

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

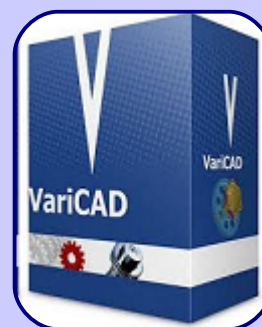
APM CAM/APM PLAIN/APM SCREW/APM STRUCTURE3D/APM DYNAMICS/APM BEAM/APM GRAPH/APM STUDIO
APM DRIVE/APM TRANS/APM SHAFT/APM BEAR/APM JOINT/APM SPRING/APM BASE/APM MECHANICAL DATA/APM MATERIAL DATA/APM SECTION DATA/APM CONSTRUCTION DATA/APM BOOK



APM WINMACHINE



KOMPAS 3D



VARICAD

DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
AUTOMOTIVE CHASSIS	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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