



DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

VEHICLE BODY ENGINEERING

Paviath ONLINE

◆ MECH ALLIED ◆ AUTOMOBILE ENGINEERING ◆ SEMESTER VIII ◆ ENGINEERING CODE AT6801

COURSE OBJECTIVE

THE MAIN OBJECTIVE OF THIS COURSE IS TO IMPART KNOWLEDGE IN THE CONSTRUCTION OF VEHICLE, AERODYNAMIC, CONCEPT, PANELING OF PASSENGER CAR BODY TRIM. AT THE END OF THE COURSE THE STUDENT WILL BE WELL VERSED IN THE DESIGN AND CONSTRUCTION OF EXTERNAL BODY OF THE VEHICLES.

COURSE OUTCOME

KNOW ABOUT DIFFERENT ASPECTS OF CAR BODY AND BUS BODY, TYPES, COMMERCIAL VEHICLE.
ROLE OF VARIOUS AERODYNAMIC FORCES AND MOMENTS, MEASURING INSTRUMENTS
KNOW ABOUT THE MATERIAL USED IN BODY BUILDING, TOOLS USED, BODY REPAIRS.

COURSE CONTENT

UNIT I CAR BODY DETAILS.
UNIT II BUS BODY DETAILS.
UNIT III COMMERCIAL VEHICLE DETAILS.
UNIT IV VEHICLE AERODYNAMICS.
UNIT V BODY MATERIALS, TRIM, MECHANISMS AND BODY REPAIR

REFERENCE BOOKS

1. POWLOSKI, J., "VEHICLE BODY ENGINEERING", BUSINESS BOOKS LTD., 1998.
2. JAMES E DUFFY, "BODY REPAIR TECHNOLOGY FOR 4-WHEELERS", CENGAGE LEARNING, 2009.
1. GILES, G.J., "BODY CONSTRUCTION AND DESIGN", ILLIFFE BOOKS BUTTERWORTH & CO., 1991.
2. JOHN FENTON, "VEHICLE BODY LAYOUT AND ANALYSIS", MECHANICAL ENGG. PUBLICATION LTD., LONDON, 1992.
3. BRAITHWAITE, J.B., "VEHICLE BODY BUILDING AND DRAWING", HEINEMANN EDUCATIONAL BOOKS LTD., LONDON, 1997.
4. DIELER ANSELM., THE PASSENGER CAR BODY, SAE INTERNATIONAL, 2000

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

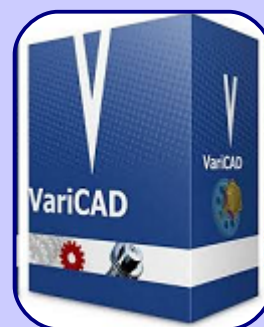
APM CAM/APM PLAIN/APM SCREW/APM STRUCTURE3D/APM DYNAMICS/APM BEAM/APM GRAPH/APM STUDIO
APM DRIVE/APM TRANS/APM SHAFT/APM BEAR/APM JOINT/APM SPRING/APM BASE/APM MECHANICAL DATA/APM MATERIAL DATA/APM SECTION DATA/APM CONSTRUCTION DATA/APM BOOK



APM WINMACHINE



KOMPAS 3D



VARICAD

DESCRIPTION	ONLINE	TRAINING CENTRE	WEBINAR	REMARKS
VEHICLE BODY ENGINEERING	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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