

DEMAND

PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

NOISE, VIBRATION AND HARSHNESS

Paviath ONLINE

◆ MECH ALLIED ◆ AUTOMOBILE ENGINEERING ◆ SEMESTER VI ELECTIVE - I ◆ ENGINEERING CODE AT6003

COURSE OBJECTIVE

KNOWLEDGE IN BASIC OF VIBRATION AND

UNDERSTANDING THE EFFECT OF NOISE AN HUMAN COMFORT AND ENVIRONMENT KNOWING THE METHODS OF VIBRATION AND NOISE MEASUREMENT

COURSE OUTCOME

AT THE END OF THE COURSE, THE STUDENT WILL UNDERSTAND THE SOURCES, EFFECTS, PREDICTION, CONTROL TECHNIQUES, MEASUREMENT TECHNIQUES OF NOISE VIBRATION PERTAIN TO AN AUTOMOBILE.

COURSE CONTENT

UNIT I FUNDAMENTALS OF ACOUSTICS AND NOISE, VIRRATION

UNIT II EFFECTS OF NOISE, BLAST, VIBRATION, AND SHOCK ON PEOPLE.

UNIT III TRANSPORTATION NOISE AND VIBRATION— SOURCES, PREDICTION, AND CONTROL UNIT IV INTERIOR TRANSPORTATION NOISE AND VIBRATION SOURCES - PREDICTION AND CONTROL UNIT V NOISE AND VIBRATION TRANSDUCERS, ANALYSIS EQUIPMENT, SIGNAL PROCESSING, AND MEASURING TECHNIQUES.

REFERENCE BOOKS

REFERENCE BUILDS. "VIBRATION MONITORING, TESTING, AND INSTRUMENTATION" C'RC PRESS. 2007 79

2. DAVID ABIES AND COLIN HAMSEN "ENGINEERING NOISE CONTROL THEORY AND PRACTICE "SPON PRESS. LONDON. 2009

ALLAIN 6. PIERSOL. THOMAS L. PAZE "HARRIS" SHOCK AND VIBRATION HANDBOOK". MCGRAW-HILL NEW DELHI. 2010

2. COLIN 6 HANSEN "LINDERSTANDING ACTIVE NOISE CANCELLATION". SPON PORCES. LANDAY 2009.

3. MATTHEW HARRISON "VEHICLE REFINEMENT: CONTROLLING NOISE AND VIBRATION IN ROAD VEHICLES ".ELSEVIER BUTTERWORTH-HEINEMANN,

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
NOISE, VIBRATION AND HARSHNESS	REGISTRATION	DOCUMENTS	COUNSELLING	OWN LAPTOP
ONLINE	2/UNIT TRAINING	4/UNIT ASSIGNMENT	2/UNIT ASSIGNED	SHEDULE
PRESENTATION	WEBINAR	NETWORK	PRESENTATION	2/UNIT ASSIGNED
PERIOD	2 HRS/I/UNIT IN SEQUENCE	NETWORKING/HRS*	PRESENTATION	* BROWSING FEE
PRICE (SEMESTER)	BY MAIL	* BROWSING FEE	NO COST	CERTIFICATE

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