

# DEMAND PAVIATH INTEGRATED SOLUTION

ENGG ALLIED

MECHANICAL

## STRUCTURAL DYNAMICS

# Paviath ONLINE

### ◆ MECH ALLIED ◆ AERONAUTICAL ENGINEERING ◆ SEMESTER VIII ELECTIVES – IV ◆ ENGINEERING CODE AE6016

#### COURSE OUTCOME COURSE CONTENT COURSE OBJECTIVE KNOWING VARIOUS OPTIONS OF MATHEMATICAL UNIT I FORCE DEFLECTION PROPERTIES OF MODELING OF STRUCTURES TO STUDY THE EFFECT OF PERIODIC AND A STRUCTURES. METHOD OF EVALUATING THE RESPONSE OF STRUCTURES PERIODIC FORCES ON MECHANICAL SYSTEMS WITH UNIT II PRINCIPLES OF DYNAMICS. UNDER VARIOUS DYNAMICALLY LOADED CONDITIONS MATRIX APPROACH KNOW LEDGE IN NATURAL MODES OF VIBRATION OF UNIT III NATURAL MODES OF VIBRATION. AND ALSO TO GET THE NATURAL CHARACTERISTICS STRUCTURES UNIT IV ENERGY METHODS. OF LARGE SIZED PROBLEMS USING APPROXIMATE GAINING KNOWLEDGE IN NUMERICAL AND APPROXITE UNIT V APPROXIMATE METHODS METHODS METHODS OF EVALUATING NATURAL MODES OF VIBRATION. REFERENCE BOOKS **APM WINMACHINE** I. TSE. F.S., MORSE. I.E. AND HINKLE. H.T., "MECHANICAL VIBRATIONS: THEORY AND APPLICATIONS" PRENTICE HALL OF COURSE SOFTWARE APM CAM/APM PLAIN/APM SCREW/APM INDIA PVT. LTD, NEW DELHI. 2004. 2. Hurty. W.C. and M.F. Rubinstein, "Dynamics of Structures", prentice Hall of India PVT. Ltd., New Delhi ◆ APM WINMACHINE (MULTIPHYSICS) STRUCTURE3D/APM DYNAMICS/APM ◆ KOMPAS 2D/3D/PDM/BOM **BEAM/APM GRAPH/APM STUDIO** 1987. 93 VARICAD 2D/3D/PDM/BOM APM DRIVE/APM TRANS/APM SHAFT/APM 1. VIERCK. R.K., "VIBRATION ANALYSIS", 2ND EDITION, THOMAS Y. ◆ UNIVERSAL MECHANISM(MBD). CROWELL & CO HARPER & ROW PUBLISHERS, NEW YORK, U.S.A. BEAR/APM JOINT/APM SPRING/APM ◆ SAM (MECHANISM DESIGN) 1989 BASE/APM MECHANICAL DATA/APM 2. TIMOSHENKO. S.P., AND D.H. YOUNG, "VIBRATION PROBLEMS ♦ SALTIRE SOFTWARE MATERIAL DATA/APM SECTION DATA/APM IN ENGINEERING", JOHN WILLEY & SONS INC., 1984. ◆ DOCUMENTATION & PRINTING 3. RAMAMURTHI. V., "MECHANICAL VIBRATION PRACTICE AND CONSTRUCTION DATA/APM BOOK NOISE CONTROL" NAROSA PUBLISHING HOUSE PVT. LTD, 2008 WinMachine KOMITAC-3D V15 VariCAD VariCAD 0 1 **APM WINMACHINE** KOMPAS 3D VARICAD **DNLINE** TRAINING CENTRE **WEBINAR** REMARKS DESCRIPTION REGISTRATION COUNSELLING OWN LAPTOP DOCUMENTS PRESENTATION **2/UNIT ASSIGNED** PRESENTATION WEBINAR NETWORK PRICE (SEMESTER) \* BROWSING FEE **BY MAIL** NO COST CERTIFICATE

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