ISO/GOST/EN/DIN

SEMESTER UNITS

REFERENCE BOOKS

POLYTECH – AICTE - UNIVERSITY

INTERNSHIP SYLLABUS

MECHANISM

MACHINE ELEMENT

STRUCTURAL

I STRENGTH OF MATERIALS

ACADEMIC SYLLABUS

INDUSTRY DB/APPLN

ROFESSIONAL COACH

DEGREE/DIPLOMA

SYLLABUS PROGRAM
- STRENGTH OF MATERIALS
- MECHANICAL ENGINEERING
- SEMESTER IV (II YEAR)
- ENGINEERING CODE PCC-ME 204

COURSE SEMESTER
- OBJECTIVE OF COURSE
- COURSE CONTENTS
- COURSE OUTCOMES
- REFERENCE BOOKS

OBJECTIVE

- TO UNDERSTAND THE NATURE OF STRESSES DEVELOPED IN SIMPLE GEOMETRIES SUCH AS BARS, CANTILEVERS, BEAMS, SHAFTS, CYLINDERS AND SPHERES FOR VARIOUS TYPES OF SIMPLE LOADS
- TO CALCULATE THE ELASTIC DEFORMATION OCCURRING IN VARIOUS SIMPLE GEOMETRIES FOR DIFFERENT TYPES OF LOADING

COURSE CONTENTS

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OBJECTIVE OUTCOMES

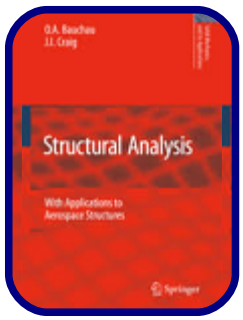
- AFTER COMPLETING THIS COURSE, THE STUDENTS SHOULD BE ABLE TO RECOGNISE VARIOUS TYPES LOADS APPLIED ON MACHINE COMPONENTS OF SIMPLE GEOMETRY AND UNDERST AND THE NATURE OF INTERNAL STRESSES THAT WILL DEVELOP WITHIN THE COMPONENTS
- THE STUDENTS WILL BE ABLE TO EVALUATE THE STRAINS AND DEFORMATION THAT WILL RESULT DUE TO THE ELASTIC STRESSES DEVELOPED WITHIN THE MATERIALS FOR SIMPLE TYPES OF LOADING

REFERENCE BOOKS

1. EGOR P. POPOV, ENGINEERING MECHANICS OF SOLIDS, PRENTICE HALL OF INDIA, NEW DELHI, 2001.
2. R. SUBRAMANIAN, STRENGTH OF MATERIALS, OXFORD UNIVERSITY PRESS, 2007.
3. MECHANICS OF MATERIALS, FERDINAND P. BEEN, RUSSEL JOHNSON JR AND JOHN J. DEWOLE, TATA MCGRAWHILL PUBLISHING CO. LTD., NEW DELHI 2005.

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 WINMACHINE
APM BASE
APM MECHANICAL DATA
APM MATERIAL DATA
APM SECTION DATA
APM CONSTRUCTION DATA
APM BOOK



SOFTWARE
APM WINMACHINE
VARICAD
KOMPAS 3D

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