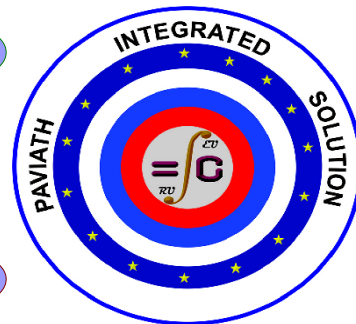


ISO/GOST/EN/DIN

SEMESTER UNITS

REFERENCE BOOKS



POLYTECH – AICTE – UNIVERSITY

INTERNSHIP SYLLABUS

TRANSPORTATION

SURVEYING

STRUCTURAL

SELECT FOUR SUBJECT

ENGINEERING GRAPHICS-I/ENGINEERING GRAPHICS II
ENGINEERING MECHANICS-SURVEYING –
CONSTRUCTION MATERIALS AND CONSTRUCTION
CAD IN CIVIL ENGINEERING DRAWING – I
THEORY OF STRUCTURES-TRANSPORTATION ENGINEERING

WATER RESOURCES MANAGEMENT
ESTIMATING AND COSTING II
CAD IN CIVIL ENGINEERING DRAWING – III
CONSTRUCTION MANAGEMENT WITH MIS
ESTIMATING AND COSTING – II
ENVIRONMENTAL ENGG AND POLLUTION CONTROL
STEEL STRUCTURES-TOWN PLANNING
EARTHQUAKE ENGG-BUILDING SERVICES
CAD IN CIVIL ENGINEERING DRAWING III
COMPUTER APPLICATION IN CIVIL ENGG

PROJECT ORIENTED

SURVEYING II-ESTIMATING AND COSTING – I
CAD IN CIVIL ENGINEERING II-STRUCTURAL ENGINEERING
HYDRAULICS-ADVANCED CONSTRUCTION TECHNOLOGY
REMOTE SENSING AND GIS -SOIL MECHANICS- FOUNDATION
ENGINEERING

I STRENGTH OF MATERIALS

DEGREE/DIPLOMA

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

- 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

OBJECTIVE OUTCOMES

- AFTER COMPLETING THIS COURSE, THE STUDENTS SHOULD BE ABLE TO RECOGNISE VARIOUS TYPES LOADS APPLIED ON MACHINE COMPONENTS OF SIMPLE GEOMETRY AND UNDERSTAND 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. DEWOLFE, TATA MCGRAWHILL PUBLISHING CO. LTD., NEW DELHI 2005.

APM CIVIL ENGINEERING
APM BOOK
APM STRUCTURE3D
APM GRAPH/APM STUDIO
APM JOINT/APM SPRING
APM BASE/MECHANICAL DATA
APM MATERIAL DATA/SECTION DATA
APM CONSTRUCTION DATA

ASCON RENGA
RENGA ARCHITECTURAL
RENGA STRUCTURAL
RENGA PIPING
RENGA VENTILATION
RENGA ELECTRICAL
RENGA COLLABORATION
RENGA APPLICATIONS

ARCADIA
ARCADIA BIM
INTERSOFT-INTELLICAD
ARCADIA-RAMA
EURO CONNECTIONS
ARCADIA MODULES
ARCADIA LIBRARY
ARCADIA APPLICATIONS



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