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DRAWING-I* - - 6 50 50 100 GRAND TOTAL 21 18 50 100 150 400 100 100 750 Total Contact hours per week: 39 Abbreviations: L-Lecture, T-Tutorial, P-Practical, TA- Teachers Assessment, CT- Class test Minimum Pass Mark in each Theory Subject is 35% and in Practical subject is 50% * Minimum pass mark in End Sem Exam is 35% & that in term work is 50% *End Examination of Civil Engineering Drawing-I will be conducted for a time duration of two hours with question supplied by the SCTE&VT and evaluation will also be done by SCTE&VT, Odisha.(Pass marks 35%) MECHANICS OF MATERIALS Name of the Course: Diploma in Civil Engineering Course code: CET 301 Semester 3rd Total Period: 75(60L+15T) Examination 3 hrs Theory periods: 5P/week Class Test: 20 Tutorial: 0P/week Teachers Assessment: 10 Maximum marks: 100 End Semester Examination: 70 COURSE CONTENTS: Chapter Name of topics Hours 1 REVIEW OF BASIC CONCEPTS 1.1 Introduction: Basic Principle of Mechanics: Force, Moment, Equilibrium, Conditions of equilibrium, Body constraints Free body diagram 3 2 GEOMETRICAL PROPERTIES OF SECTIONS 2.1 Centroid: Geometrical properties Definitions and examples of Symmetrical, AntiSymmetrical, Asymmetrical shapes - Definitions of centre of gravity and centroid - Centroid of Symmetrical shapes (solid / hollow square, rectangular, circular, I Sections) - Centroid of Asymmetrical shapes (triangular, semi circular, quadrant, trapezoidal, parabolic sections) - Centroid of Anti Symmetric shapes (S , Z sections) Built up structural sections Problems 2.2 Moment of inertia: Definitions of: Inertia, Moment of Inertia, Polar moment of inertia, Radius of gyration, Section Modulus, Polar modulus - Parallel and perpendicular axes theorems - Derivation of expressions for M.I / Polar M I, Section modulus and Radius of gyration of regular geometrical plane sections (rectangle, circle, triangle) M.I about centroidal axis / base, Section modulus, Radius of gyration of symmetric, asymmetric, anti symmetric and built up sections Numerical problems. 10 3 SIMPLE STRESSES AND STRAINS 3.1 Introduction to stresses and strains: Study of strength of material - Mechanical properties of materials Rigidity, Elasticity, Plasticity, Compressibility, Hardness, Toughness, Stiffness, Brittleness, Ductility, Malleability, Creep, Fatigue, Tenacity, Durability - Definitions of stress and strain - Types of stresses -Tensile, Compressive and Shear stresses - Types of strains - Tensile, Compressive and Shear strains - Complimentary shear stress - Diagonal tensile / compressive - Stresses due to shear - Elongation and Contraction - Longitudinal and Lateral strains - Poissons Ratio - Volumetric strain computation of stress, strain, Poissons ratio, change in dimensions and volume etc- Hookes law - Elastic Constants - Definitions of: Youngs Modulus of Elasticity Shear modulus (or) Modulus of Rigidity Bulk Modulus (or) Modulus of Compressibility - Derivations for the relationship between elastic constants - Simple problems - Youngs modulus values of few important engineering materials - Numerical problems 3.2 Application of stress and strain in engineering field: Behaviour of ductile and brittle materials under direct loads Stress Strain curve of a ductile material - Limit of proportionality, Elastic limit, Yield stress, Ultimate stress, Breaking stress, Actual - Nominal stresses - Working stress - Factor of safety Percentage elongation - 20 Percentage reduction in area - Significance of percentage elongation and reduction in area of cross section - Deformation of prismatic, stepped and linearly varying cross-sections bars due to uniaxial load - Deformation of prismatic bars due to its self weight Temperature stress - Composite Sections Examples of composite sections in engineering field- Advantages - Assumptions made Principles of analysis of Composite sections - Modular ratio Equivalent area - Stresses in the materials - Problems on axially loaded composite sections like RC.C / Encased columns - Numerical problems. 4 SHEAR FORCE AND BENDING MOMENT 4.1 Types of loads and beams: Concept of Axial load, Transverse load, Concentrated (or) Point load, Uniformly Distributed load (UDL), Varying load Types of Supports and Reactions: Simple support, Roller support, Hinged support, Fixed support; Vertical reaction, Horizontal reaction, Moment reaction- Types of Beams based on support conditions- Diagrammatic representation of beams, loads and supports Static equilibrium equations Determinate and indeterminate beams. 4.2 Shear force and bending moment in beams: Shear Force and Bending Moment Conventional signs used for S.F. and B.M S.F and B.M of general cases of determinate beams S.F and B.M diagrams for Cantilevers, Simply supported beams and Over hanging beams Position of maximum BM - Point of contra flexure Derivation of Relation between intensity of load , S.F and B.M. Numerical problems on S.F and B.M.(Determinate beams with concentrated loads and udl only) 10 5 STRESSES IN BEAMS AND SHAFTS 5.1 Stresses in beams due to bending: Bending stress in beam Theory of simple bending Assumptions Moment of resistance Derivation of flexure/bending equation Bending stress distribution Curvature of beam Position of N.A and centroidal axis Stiffness equation Flexural rigidity Strength equation Significance of Section modulus Numerical problems. 5.2 Shear stresses in beams : Shear stress distribution in beams of rectangular, circular and standard sections symmetrical about vertical axis 5.3 Stresses in shafts due to torsion: Concept of torsion - Basic assumptions of pure torsion - torsion of solid and hollow circular sections - polar moment inertia - torsional shearing stresses - angle of twist - torsional rigidity - Derivation of Torsion equation -- Power transmitted by a shaft - Numerical problems. 5.4 Combined bending and direct stresses: Direct and Indirect stresses Combination of stresses Eccentric loads on Columns Effects of Eccentric loads / Moments on Short columns Combined direct and bending stresses Maximum and Minimum stresses in Sections Problems Conditions for no tension Limit of eccentricity Middle third rule Core or Kern for square, rectangular and circular sections Chimneys subjected to uniform wind pressure Combined stresses in Chimneys due to Self weight and Wind load- Chimneys of hollow square and hollow circular cross sections only 20 6 COMPEX STRESSES AND STRAINS 6.1 Principal stresses and strains: Occurrence of normal and tangential stresses - Concept of Principal stress and Principal Planes major and minor principal stresses and their orientations stresses on a given plane shear and normal stress components on any inclined plane Mohrs circle and its use in solving problems on complex stresses - Numerical problems 12 Learning Resources Text Books Sl. No Name of Authors Titles of Book Name of Publisher 1 R.Subramanian Strength of Materials 2 R. K. Rajput. Strength of Materials 3 S.Ramamrutham Engineering Mechanics & Strength of Materials 4 R.S. Khurmi. Strength of Materials 5 Dr. Sadhu Singh Strength of Materials 6 R.K. Bansal Engineering Mechanics & Strength of Materials REFERRENCE BOOKS: 1 G. H. Ryder Strength of Materials 2 S.P. Timoshenko, D.H.Young Elements of Strength of material 3 James Gere & Goodno Strength of Materials FLUID MECHANICS & HYDRAULIC MACHINES Name of the Course: Diploma in Civil Engineering Course code: CET 302 Semester 3rd Total Period: 60(60L) Examination 3 hrs Theory periods: 4P/week Class Test: 20 Tutorial: Teachers Assessment: 10 Maximum marks: 100 End Semester Examination: 70 COURSE CONTENTS: Chapter Name of topics Hours 1 1.0 HYDROSTATICS: 1.1 Properties of fluid: density, specific gravity, surface tension, capillarity, viscosity and their uses 1.2 Pressure and its measurements: intensity of pressure, atmospheric pressure, gauge pressure, absolute pressure and vacuum pressure; relationship be

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