

SYLLABUS :-

Energy Method (Ritz) and Error Orthogonalization (Galerkin) for indeterminate beams, curved beams, arches and rings; Matrix Force and Displacement Method for Frames and Trusses- Analysis for temperature stress, lack of fit and settlement of supports; Plastic analysis; Variational Approach - Introduction to Finite element Method for frames, trusses and plane stress analysis; Geometric Stiffness Matrix; Compound Structures; Suspension and guyed Bridges; Influence lines.