GOVERNMENT POLYTECHNIC JAJPUR

A/ P: Ragadi, Block: Korei, Dist.: Jajpur, Odisha- 755019

Website: https://www.gpjajpur.org E-mail: principalgpjajpur@yahoo.co.in Contact: 9437155107

DEPARTMENT OF CIVIL ENGINEERING

LESSON PLAN

Discipline: Civil Engg	Semester: 3rd	Name of the Teaching faculty: Rajashree Nayak	
Subject: Structural Mechanics Th-1	No of Days/Week class alloted: 5 days	Semester from Date: 01.08.2023 To Date: 30.11.2023 No of weeks:17	
Week	Class Day	Topics	
	1st	Basic Principle of Mechanics	
	2nd	Force, Moment, support conditions, Conditions of equilibrium	
1st	3rd	C.G & MI, Free body diagram	
	4th	Review of CG and MI of different sections	
	5th	Review of CG and MI of different sections	
	1st	Introduction to stresses and strains	
and	2nd	Mechanical properties of materials – Rigidity, Elasticity, Plasticity, Compressibility, Hardness, Toughness, Stiffness, Brittleness,	
2nd	3rd	Ductility, Malleability, Creep, Fatigue, Tenacity, Durability	
	4th	Types of stresses -Tensile, Compressive and Shear stresses	
	5th	Types of strains - Tensile, Compressive and Shear strains	
	1st	Complimentary shear stress - Diagonal tensile / compressive Stresses due to shear	
2.1	2nd	Elongation and Contraction, Longitudinal and Lateral strains	
3rd	3rd	Poisson's Ratio, Volumetric strain, computation of stress, strain	
	4th	change in dimensions and volume etc.	
	5th	Numerical	
	1st	Hooke's law - Elastic Constants	
	2nd	Derivation of relationship between the elastic constants	
	3rd	Application of simple stress and strain in engineering field	
4th	4th	Behavior of ductile and brittle materials under direct loads, Stress Strain curve of a ductile material	
	5th	Limit of proportionality, Elastic limit, Yield stress, Ultimate stress, Breaking stress, Percentage elongation, Percentage reduction in area	
5th	1st	Significance of percentage elongation and reduction in area of cross section	
	2nd	Deformation of prismatic bars due to uniaxial load, Deformation of prismatic bars due to its self-weight.	
	3rd	Complex stress and strain	
	4th	Principal stresses and strains: Occurrence of normal and tangential stresses	
	5th	Concept of Principal stress and Principal Planes	
6th	1st	major and minor principal stresses and their orientations	

	2nd	Mohr's Circle and its application to solve problems of complex stresses
3rd 4th		Stresses in beams due to bending: Bending stress in beams – Theory of simple bending – Assumptions
		Moment of resistance – Equation for Flexure– Flexural stress distribution
	5th	Curvature of beam – Position of N.A. and Centroidal Axis – Flexural rigidity – Significance of Section modulus
7th	1st	Shear stresses in beams: Shear stress distribution in beams of rectangular, circular and standard sections symmetrical about vertical axis.
	2nd	Shear stresses in beams: Shear stress distribution in beams of rectangular, circular and standard sections symmetrical about vertical axis.
	3 rd	Concept of torsion, basic assumptions of pure torsion
	4 th	torsion of solid and hollow circular sections, polar moment of inertia
	5th	torsional shearing stresses, angle of twist, torsional rigidity, equation of torsion
	1st	Combined bending and direct stresses: Combination of stresses, combined direct and bending stresses
8th	2nd	Maximum and Minimum stresses in Sections, Conditions for no tension, Limit of eccentricity
oe	3rd	Middle third/fourth rule, Core or Kern for square
	4th	rectangular and circular sections, chimneys, dams and retaining walls
	5th	Numerical
	1st	Columns and Struts, Definition, Short and Long columns
	2nd	End conditions, Equivalent length / Effective length, Slenderness ratio
9th	3rd	Axially loaded short and long column, Euler's theory of long columns
5(1)	4th	Critical load for Columns with different end conditions
	5th	Types of Loads: Concentrated (or) Point load, Uniformly Distributed load (UDL)
	1st	Types of Supports: Simple support, Roller support, Hinged support, Fixed support
10th	2nd	Types of Reactions: Vertical reaction, Horizontal reaction, Moment reaction
	3rd	Types of Beams based on support conditions
	4th	Calculation of support reactions using equations of static equilibrium
		Shear Force and Bending Moment: Signs Convention for S.F. and B.M
	1st	S.F and B.M of general cases of determinate beams with concentrated loads and udl only
	2nd	S.F and B.M diagrams for Cantilevers
11th	3rd	Simply supported beams and over hanging beams
	4th	Position of maximum BM, Point of contra flexure
	5th	Relation between intensity of load, S.F and B.M.
12th	1st	Numerical
	2nd	Introduction: Shape and nature of elastic curve (deflection curve)
	3rd	Introduction: Shape and nature of elastic curve (deflection curve)
	4th	Relationship between slope, deflection and curvature (No derivation)
	5th	Relationship between slope, deflection and curvature (No derivation)

Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) Indeterminacy in beams Principle of consistent deformation/compatibility Analysis of propped cantilever Analysis of propped cantilever Analysis of propped cantilever Analysis of propped cantilever Sth. Analysis of propped cantilever Analysis of propped cantilever Sth. Analysis of propped cantilever Analysis of propped cantilever Sth. Analysis of propped cantilever Analysis of propped cantilever Sth. Analysis of propped cantilever Analysis of propped cantilever Sth. Analysis of propped cantilever Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of tr		1st	Importance of slope and deflection	
method, Macaulay's method) Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) Ist Indeterminacy in beams 2nd Principle of consistent deformation/compatibility 14th 3rd Analysis of propped cantilever 4th Analysis of propped cantilever 5th Analysis of propped cantilever 1st fixed and two span continuous beams by principle of superposition 2nd SF and BM diagrams (point load and udl covering full span) 5F and BM diagrams (point load and udl covering full span) 5F and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 1st advantages of trusses 1st advantages of trusses 1st advantages of trusses 1st advantages of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)			Slope and deflection of cantilever and simply supported beams under	
Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) 1st Indeterminacy in beams 2nd Principle of consistent deformation/compatibility 14th Analysis of propped cantilever 4th Analysis of propped cantilever 5th Analysis of propped cantilever 1st fixed and two span continuous beams by principle of superposition 2nd SF and BM diagrams (point load and udl covering full span) 15th SF and BM diagrams (point load and udl covering full span) 4th SF and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th statically determinate and indeterminate trusses 1st advantages of trusses: 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)		2nd	, , , , , , , , , , , , , , , , , , , ,	
13th 13th				
Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) Isl				
Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) 1st Indeterminacy in beams 2nd Principle of consistent deformation/compatibility 3rd Analysis of propped cantilever 4th Analysis of propped cantilever 5th Analysis of propped cantilever 1st fixed and two span continuous beams by principle of superposition 2nd SF and BM diagrams (point load and udl covering full span) 4th SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses: 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 4nalysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)	40.1	3rd	, , , , , , , , , , , , , , , , , , , ,	
4th concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) 1st Indeterminacy in beams 2nd Principle of consistent deformation/compatibility 14th 3rd Analysis of propped cantilever 4th Analysis of propped cantilever 5th Analysis of propped cantilever 1st fixed and two span continuous beams by principle of superposition 2nd SF and BM diagrams (point load and udl covering full span) 5F and BM diagrams (point load and udl covering full span) 5F and BM diagrams (point load and udl covering full span) 5F and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses: 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)	13th			
method, Macaulay's method) Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) 1st Indeterminacy in beams 2nd Principle of consistent deformation/compatibility 3rd Analysis of propped cantilever 4th Analysis of propped cantilever 5th Analysis of propped cantilever 1st fixed and two span continuous beams by principle of superposition 2nd SF and BM diagrams (point load and udl covering full span) 3rd SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses: 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)		4th		
Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method, Macaulay's method) 1st Indeterminacy in beams 2nd Principle of consistent deformation/compatibility 3rd Analysis of propped cantilever 4th Analysis of propped cantilever 5th Analysis of propped cantilever 1st fixed and two span continuous beams by principle of superposition 2nd SF and BM diagrams (point load and udl covering full span) 3rd SF and BM diagrams (point load and udl covering full span) 4th SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)			, , , , , ,	
1st Indeterminacy in beams 2nd Principle of consistent deformation/compatibility 14th 3rd Analysis of propped cantilever 4th Analysis of propped cantilever 5th Analysis of propped cantilever 1st fixed and two span continuous beams by principle of superposition 2nd SF and BM diagrams (point load and udl covering full span) 4th SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses: 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Section) Analysis of trusses: Analytical method (Method of joints, method of Section)				
method, Macaulay's method) 1st Indeterminacy in beams 2nd Principle of consistent deformation/compatibility 3rd Analysis of propped cantilever 4th Analysis of propped cantilever 5th Analysis of propped cantilever 1st fixed and two span continuous beams by principle of superposition 2nd SF and BM diagrams (point load and udl covering full span) 3rd SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 2nd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses. 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)		5+h		
1st Indeterminacy in beams 2nd Principle of consistent deformation/compatibility 3rd Analysis of propped cantilever 4th Analysis of propped cantilever 5th Analysis of propped cantilever 1st fixed and two span continuous beams by principle of superposition 2nd SF and BM diagrams (point load and udl covering full span) 3rd SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 2nd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses. 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)		3611		
14th 3rd Analysis of propped cantilever 4th Analysis of propped cantilever 5th Analysis of propped cantilever 1st fixed and two span continuous beams by principle of superposition 2nd SF and BM diagrams (point load and udl covering full span) 3rd SF and BM diagrams (point load and udl covering full span) 4th SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 4th degree of indeterminate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses. 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Analysis of trusses: Analytical method (Method of joints, method of Section) 4nalysis of trusses: Analytical method (Method of joints, method of Section)		1st		
4th Analysis of propped cantilever 5th Analysis of propped cantilever 1st fixed and two span continuous beams by principle of superposition 2nd SF and BM diagrams (point load and udl covering full span) 3rd SF and BM diagrams (point load and udl covering full span) 4th SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 2nd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses. 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 3rd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Analysis of trusses: Analytical method (Method of joints, method of Section)		2nd	Principle of consistent deformation/compatibility	
15th Analysis of propped cantilever 1st fixed and two span continuous beams by principle of superposition 2nd SF and BM diagrams (point load and udl covering full span) 3rd SF and BM diagrams (point load and udl covering full span) 4th SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 2nd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses: 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 3rd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Analysis of trusses: Analytical method (Method of joints, method of Section)	14th	3rd	Analysis of propped cantilever	
15th fixed and two span continuous beams by principle of superposition 2nd SF and BM diagrams (point load and udl covering full span) 3rd SF and BM diagrams (point load and udl covering full span) 4th SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses: 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 3rd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Analysis of trusses: Analytical method (Method of joints, method of Section)		4th	Analysis of propped cantilever	
2nd SF and BM diagrams (point load and udl covering full span) 3rd SF and BM diagrams (point load and udl covering full span) 4th SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 2nd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses. 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 3rd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Analysis of trusses: Analytical method (Method of joints, method of Section)		5th	Analysis of propped cantilever	
15th 3rd SF and BM diagrams (point load and udl covering full span) 4th SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 2nd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses. 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 3rd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Analysis of trusses: Analytical method (Method of joints, method of Section)		1st	fixed and two span continuous beams by principle of superposition	
4th SF and BM diagrams (point load and udl covering full span) 5th SF and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 3rd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses. 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 3rd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)		2nd	SF and BM diagrams (point load and udl covering full span)	
5th SF and BM diagrams (point load and udl covering full span) 1st Introduction: Types of trusses 2nd statically determinate and indeterminate trusses 3rd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses. 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 3rd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)	15th	3rd	SF and BM diagrams (point load and udl covering full span)	
16th 16th		4th	SF and BM diagrams (point load and udl covering full span)	
2nd statically determinate and indeterminate trusses 3rd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses. 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 3rd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)		5th	SF and BM diagrams (point load and udl covering full span)	
16th 3rd statically determinate and indeterminate trusses 4th degree of indeterminacy 5th stable and unstable trusses 1st advantages of trusses. 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 3rd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)		1 st	Introduction: Types of trusses	
4 th degree of indeterminacy 5 th stable and unstable trusses 1 st advantages of trusses. 2 nd Analysis of trusses: Analytical method (Method of joints, method of Section) 3 rd Analysis of trusses: Analytical method (Method of joints, method of Section) 4 th Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)		2 nd	statically determinate and indeterminate trusses	
5th stable and unstable trusses 1st advantages of trusses. 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 3rd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)	16th	3 rd	statically determinate and indeterminate trusses	
1st advantages of trusses. 2nd Analysis of trusses: Analytical method (Method of joints, method of Section) 3rd Analysis of trusses: Analytical method (Method of joints, method of Section) 4th Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)		4 th	degree of indeterminacy	
Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)		5 th	stable and unstable trusses	
Section) Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)		1 st	advantages of trusses.	
Section) Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)	17th	2 nd	Analysis of trusses: Analytical method (Method of joints, method of	
17th Section) Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)			•	
17th Section) Analysis of trusses: Analytical method (Method of joints, method of Section) Analysis of trusses: Analytical method (Method of joints, method of Section)				
Section) Analysis of trusses: Analytical method (Method of joints, method of			·	
Analysis of trusses: Analytical method (Method of joints, method of				
		5th	Analysis of trusses: Analytical method (Method of joints, method of	
Section)				
18th 1st CLASS TEST 3, PREVIOUS YEAR QUESTIONS, QUIZ	18th			

LearningResources:

SI No.	Author Name	Name of the Book
1	R.Subramanian Strength of Materials	R.Subramanian Strength of Materials
2	S.Rammrutham	Theory of structure
3	V.N.Vazirani&M.M. Rathwani	Analysis of Structures Vol.I&

Rajashree Nayak FACULTY SIGNATURE