LESSON PLAN-WINTER 2023 SWAMI VIVEKANANDA SCHOOL OF ENGINEERING & TECHNOLOGY, BBSR DISCIPLINE- SEMESTER- 3RD NAME OF THE FACULTY: ER. Kunal Pradhan				
VEEK	CLASS DAY	THEORY TOPIC		
1ST	1.08.2023	Simple stress & strain		
	2.08.2023	Axial and tangential Hooke's law		
	3.08.2023	Young's modulus, bulk modulus, modulus of rigidity		
	4.08.2023	Poission ratio, derive the relation byetween three elastic constants		
	5.08.2023	DO		
2ND	7.08.2023	Principle of superposition		
	9.08.2023	Stresses in composite section		
	10.08.2023	Temperature stress, Determine the temperature stress in composite bar (single bar)		
	11.08.2023	Strain energy and resilience, Stress due to gradually applied, suddenly applied and		
	14.08.2023	Problems on Stress and strain		
3RD	16.08.2023	Problems on Stress and strain		
	18.08.2023	Thin cylinder and spherical shell under internal pressure		
	21.08.2023	Hoop and Longitudinal stress, strain		
47711	22.08.2023	Derivation of Hoop and Longitudinal stress, Hoop and Longitudinal strain		
4TH	24.08.2023	Derivation of Volumetric strain		
	25.08.2023	Problems on above		
5TH	28.08.2023	MONTHLY TEST		
	29.08.2023	Computation of change in length , diameter and volume		
	30.08.2023	Computation of change in length, diameter and volume		
6TH	1.09.2023	Problems on above		
	4.09.2023	Problems on above Location of principal plane and computation of principal stress		
7TH	5.09.2023	Location of principal plane and computation of principal stress		
	8.09.2023			
	9.09.2023	Mohr's circle		
8TH	11.09.2023	Maximum shear stress using Mohr's circle		
	12.09.2023	- Bending moments and shear force		
	13.09.2023	Types of beam and load		
	14.09.2023	Concepts of shear force and bending moment		
	15.09.2023	Shear force and bending moment diagram and its salient features illsstration in		
9ТН	18.09.2023	Shear force and bending moment diagram and its salient features illsstration in		
	21.09.2023	lno.		
		is the supported beam and over hanging beam under point loa s & uniformly		
	22.09.2023	simply supported beam and over hanging beam under point loa s & uniformly		
	23.09.2023	Theory of simple bending		
	21.09.2023	I neory of simple bending		
10TH	25.09.2023	Assumptions in the theory of bending Assumptions in the theory of bending section modulus and neutral axis		
	29.09.2023	Bending equation, moment of resistance, section modulus and neutral axis		
11TH	3.10.2023	Solve simple problems.		
	5.10.2023	Solve simple problems.		
	9.10.2023	Revision Class		
THE RESERVE	11.10.2023	INTERNAL ACCESSMENT		
12TH	11.10.2023			

	13.10.2023	Bending equation, moment of resistance, section modulus and neutral axis
13TH	17.10.2023	Combined direct and bending stresses
	19.10.2023	Define column, Axial load, Eccentric load on column
14TH	28.10.2023	Direct stresses, bending stresses, maximum and minimum stresses
15TH	3.11.2023	Numerical problems on above
16ТН	6.11.2023	Bucking load computation using Euler's formula (no derivation) in Columns with
	8.11.2023	Numerical problems on above
	10.11.2023	Bucking load computation using Euler's formula (no derivation) in Columns with
17TH	14.11.2023	Bucking load computation using Euler's formula (no derivation) in Columns with
	16.11.2023	Assumption of pure torsion
	18.11.2023	The torsion equation for solid and hollow circular shaft
18TH	22.11.2023	The torsion equation for solid and hollow circular shaft
	24.11.2023	Comparison between solid and hollow shaft subjected to pure torsion
	25,11.2023	Comparison between solid and hollow shaft subjected to pure torsion
19TH	27.11.2023	Numerical problems
	29.11.2023	Numerical problems
	30.11.2023	Numerical problems
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