LESSON PLAN-WINTER 2023 SWAMI VIVEKANANDA SCHOOL OF ENGINEERING & TECHNOLOGY, BBSR				
INAME OF THE FACULTY, ER. RUING				
DISCIPLINE-	NO OF CLASS	SEM. From date: 01.08.2023 TO 30.11.2023		
SUBJECT-STRENGTH OF MATERIAL	ALLOTED/ PER WEEK-	No. of weeks:19th		
WEEK	CLASS DAY	THEORY TOPIC		
IST	1.08.2023	Simple stress & strain		
	2.08.2023	Axial and tangential Hooke's law Young's modulus, bulk modulus, modulus of rigidity		
	3.08.2023	Young's modulus, bulk modulus, modulus or a poission ratio, derive the relation by three elastic constants		
	4.08.2023			
	5.08.2023	DO Principle of superposition		
2ND	7.08.2023	t caction		
	9.08.2023	Determine the temperature stress in composite our		
	10.08.2023	Strain energy and resilience, Stress due to gradually applied, suddenly		
	11.08.2023	Problems on Stress and strain		
3RD	14.08.2023	Problems on Stress and strain		
	16.08.2023	Thin cylinder and spherical shell under internal pressure		
	21.08.2023	L L ongitudinal stress strain		
. 4TH	22.08.2023	Derivation of Hoop and Longitudinal stress, Hoop and Longitudinal		
	24.08.2023	Derivation of Volumetric strain		
	25.08.2023	Problems on above.		
	28.08.2023	Monthly Test		
5TH	29.08.2023	Computation of change in length, diameter and volume		
	30.08.2023	Computation of change in length, diameter and volume		
CTU	1.09.2023	Problems on above		
6ТН	4.09.2023	Problems on above		
	5.09.2023	Location of principal plane and computation of principal stress		
7TH	8.09.2023	Location of principal plane and computation of principal stress		
	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		
		Types of beam and load		
	13.09.2023	**		
	14.09.2023	Concepts of shear force and bending moment		
	15.09.2023	Shear force and bending moment diagram and its salient features		
9ТН	18.09.2023	Shear force and bending moment diagram and its salient features		
	21.09.2023	DO		
	22.09.2023	simply supported beam and over hanging beam under point loa s &		
	23.09.2023	simply supported beam and over hanging beam under point loa s &		
	21.09.2023	Theory of simple bending		
	25.09.2023	Assumptions in the theory of bending		
10TH	3.00	Bending equation, moment of resistance, section modulus and neutral		
	29.09.2023			
11TH	3.10.2023	Solve simple problems.		
	5.10.2023	Solve simple problems.		
12TH	9.10.2023	Revision Class		
	11.10.2023	Internal Accessment		

	13.10.2023	Bending equation, moment of resistance, section modulus and neutral
	17.10.2023	Combined direct and bending stresses
13TH	19.10.2023	Define column, Axial load, Eccentric load on column  Direct stresses, bending stresses, maximum and minimum stresses
14TH	28.10.2023	1.0110
15TH	3.11.2023	Numerical problems on above  Bucking load computation using Euler's formula (no derivation) in
16TH	6.11.2023	1- 0110
	8.11.2023	l suging Fuler's IOIIIula (no s
	10.11.2023	Bucking load computation using Euler's formula (no derivation) in
17TH	14.11.2023 16.11.2023 18.11.2023 22.11.2023	Assumption of pure torsion  The torsion equation for solid and hollow circular shaft  ion equation for solid and hollow circular shaft
18TH	22.11.2023 24.11.2023 25.11.2023 27.11.2023	Comparison between solid and hollow shaft subjected to pure torsion  Numerical problems
19TH	27.11.2023 29.11.2023 30.11.2023	Numerical problems Numerical problems RING
HOD SIGN.		PRINCI Swarri Vivekananda Sch

S V S.E.T., Madanpur

PRINCIPAL Swami Vivekananda School of Engg. & 1 Madanpur, 685R