SESSI	ON:			WINTER 2023		
BRAN	CH:			MECHANICAL ENGINEERING		
SEME	STER:			3RD SEC-A		
SUBJE	CT:		in the same of the	STRENGTH OF MATERIAL (TH-2)		
NAM	E OF TH	IE FAC	ULTY:	NARAYAN KAR		
SL NO.	монтн	CHAPT. NO.	DATE	TOPICS TO BE COVERED	NO. OF ACADEMIC DAYS AVAILABLE FOR THE SUBJECT	% COVERED
	i i		5/8/2023	1.1Types of load, stresses		
			8/8/2023	strains,(Axial and tangential) Hooke's law		
			9/8/2023	Young's modulus, bulk modulus, modulus of		
				rigidity, Poisson's ratio		
			10/8/2023	derive the relation between three elastic constants		
			12/8/2023	derive the relation between three elastic		
				constants		
			16/8/23	derive the relation between three elastic		
1	AUG23			constants	16	30%
		CH-1	17/8/23	Simple problems on above		
			19/8/23	Simple problems on above		
			21/8/23	1.2Principle of super position		
			22/8/23	stresses in composite section		
		A STATE OF THE STA	23/8/23	1.3Temperature stress, determine the temperature stress in composite bar (single core)		
			24/8/23	1.4Strain energy and resilience, Stress due to		
			2-70/23	gradually applied		
			26/8/23	suddenly applied and impact load		
			28/8/23	1.5Simple problems on above		
			29/8/23	Simple problems on above		
		CH-2	31/8/23	2.1Definition of hoop and longitudinal stress		
			2/9/2023	Definition of hoop and longitudinal strain		
2			4/9/2023	2.2Derivation of hoop stress, longitudinal stress,		
				hoop strain, longitudinal strain and volumetric		
				strain		
			5/9/2023	Derivation of hoop stress, longitudinal stress,		
	\$ep-23	CH-2		hoop strain, longitudinal strain and volumetric		
				strain	16	30%
			7/9/2023	2.3Computation of the change in length,		
				diameter and volume	-	
			9/9/2023	2.3Computation of the change in length,		
				diameter and volume	_	
			A spinished the street of the	2.45imple problems on above		
			12/9/2023	2.45imple problems on above		

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	MATE !		13/9/23			
				3.1Determination of normal stress, shear stress		
				and resultant stress on oblique plane		
			14/9/23			
E .	Day 1			3.1Determination of normal stress, shear stress		
				and resultant stress on oblique plane		
1		сн-з	21/9/23	3.3Location of principal plane and computation	1.6	35%
2	Sep-23			of principal stress		
			23/9/23	Maximum shear stress using Mohr's circle		
1			25/9/23	Maximum shear stress using Mohr's circle		
			26/9/23	Simple problems on above		
			27/9/23	Simple problems on above		
			28/9/23	Simple problems on above		
		CH-4	30/9/23	4.1Types of beam and load		
THE STATE OF	A Company		3/10/2023	4.2Concepts of Shear force and bending		
				moment		
			4/10/2023	4.3Shear Force and Bending moment diagram		
				and its salient features illustration in cantilever		
177				beam		
			5//10/23	4.3Shear Force and Bending moment diagram		
				and its salient features illustration in cantilever		
				beam		
			7/10/2023			
				simply supported beam and over hanging beam		
3	Oct-23	CH-4		under point load and uniformly distributed load	9	17%
			9/10/2023	i Land the second over bonging boom		
				simply supported beam and over hanging beam under point load and uniformly distributed load		
	100		10/10/2023			
			10/10/2023	simply supported beam and over hanging beam		
Charles and the Charles and th				under point load and uniformly distributed load		
			11/10/2023			
			11/10/2023	simply supported beam and over hanging beam		
				under point load and uniformly distributed load		
			12/10/2023	Simple problems on above		
			31/10/23			
-	-	 		Simple problems on above		
		CH-4		Simple problems on above	1	
		-	4/11/2023			
			6/11/2023			
				5.2Bending equation, Moment of resistance		
		CH-5	7/11/2023	s as discounties Moment of recistance		
				5.2Bending equation, Moment of resistance	12	23%
4	Nov-23		8/11/2023	Section modulus& neutral axis		
			9/11/2023			
		CH-6	13/11/23			
			14/11/23			
			15/11/23			
	16		16/11/23	1.1		
183	78	1	-	Solve simple problems	1	1

BRIEF SUMMARY OF THE PLAN					
L. NO.	MONTH	UNIT/CHAPTER TO BE COVERED	% coverage		
	ALICHET	ch-1,ch-2	30%		
1	AUGUST	ch-3 ,ch-4	30%		
2	SEPTEMBER	ch-5	17%		
3	OCTOBER		23%		
4	NOVEMBER	ch-6			

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