BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK DEPARTMENT OF MECHANICAL ENGINEERING



LESSON PLAN

ACCADEMIC SESSION: 2022-23

SUBJECT: STRENGTH OF MATERIAL (TH 2)

FACULTY: PRABIR KUMAR SWAIN

SEMESTER: 3RD

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26/09/2022		# * * * * * * * * * * * * * * * * * * *	23/09/2022		21/09/2022	20/09/2022	19/09/2022	16/09/2022	Class Day	No. of Days/ per week class allotted: 04periods per week Mon-1 period, Tue-1 period, Wed-1 period, Fri -1 period)	Semester: 3 rd B
						1	1	<u> </u>	No of period available	class allotted: week od, Wed-1 period, od)	B
	1.2Principles of superposition And its numerical	Derivation of relation between E,K and C and its numerical	Derivation of relation between E , K and μ. And its numerical	Derivation of relation between E , C and µ. And its numerical	rigidity Poisson's ratio and some numerical on stress and strain	d types of stress d types of strain	1.1 load and types of load	Introduction to strength of material and syllabus discussion	Theory Topics	Semester From Date: 15-09-2022 To Date: 23-12-2022 No. of weeks: 14 weeks	Name of the teaching faculty: PRABIR KUMAR SWAIN

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	hoop strain and longitudinal strain under more research and longitudinal stress, hoop strain 2.2 Derivation of hoop stress, longitudinal stress, hoop strain longitudinal strain and volumetric strain. Of thin cylinder under internal pressure	PREVIOUS YEAR SEMESTER QUESTION DISCUSSION CLASS TEST 2.1Definition of Thin cylinder , hoop stress and longitudinal stress,	Stress due to gradually applied load, suddenly applied load and impact load 1.5Numericals of strain energy and numerical of above chapter 1.5Numerical energy and numerical of above chapter 1.5Numerical energy and numerical energy and numeric	tion of stress strain curve ,Strain energy , resilie	Temperature stress in Composite bar(single core) and numerical	1.3Temperature stress and its Simple numerical	Numerical of composite section

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	11/11/2022	09/11/2022	07/11/2022	04/11/2022	02/11/2022	01/11/2022	31/10/2022	28/10/2022	26/10/2022	25/10/2022		
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	Determination of normal stress, shear stress and resultant stress on oblique plane under shear loading.	3.1Determination of normal stress, shear stress and resultant stress on oblique plane under uniaxial loading Determination of normal stress, shear stress and resultant stress on oblique plane under biaxial loading	Previous year question discussion	Comparison between solid cylinder and hollow cylinder. And numerical of TORSION Numerical of torsion	Assumption of pure Torsion 7.1 The torsion equation for solid Shaft. And Torsion equation for hollow Shaft.	CLASS TEST	Previous year semester question discussion	Numerical of spherical shell under internal pressure	Numerical of thin cylinder under internal pressure	2.3 Derivation of hoop stress, longitudinal stress, hoop strain longitudinal strain and volumetric strain Of spherical shell And Computation of the In length, diameter and volume of spherical shell		

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100年間では、100年には、100	Nevision	Davision	Revision	Previous year semester question discussion of commit and commit an	Numerical on buckling load with various cita containing load	derivation) in Columns with various end conditions	stresses	6.3 Direct stresses, Bending stresses, Maximum& Minimum	Column.	6.2 Axial load, Eccentric load on	6.1 Define column		Numerical of simple bending	Numerical of simple bending.	A of reciptors Section modulus & neutral axis, and	5.2 Derivation of simple Bending Equation	4.1 Assumptions in the theory Of simple bending.	Previous year question discussion of SFD and BMD	Numerical of simple supported beam under combined load	beam under point load and its numerical	Shear Force and Bending moment diagram of overhanging