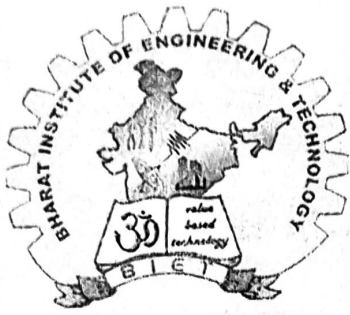


3rd Sem Mech - 'A'

# BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

SIVARAM VIHAR, GHATAKESWAR HILLS  
MOHADA, BERHAMPUR (GM.)





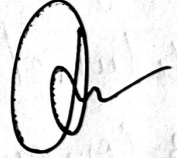


## STUDENT'S ATTENDANCE REGISTER

Time	9.55 10.45	10.45 11.35	11.35 12.25	12.25 1.15	1.55 2.45
Day					
MON	✓				
TUE	<del>✓</del>				✓
WED	✓				
SAT	✓				

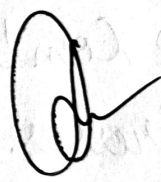
Year/ Session	3rd Sem. Mech Engrg (2021-2024) 2022-23 winter
Semester & Branch	3rd sem, Mech Engrg
Subject with Code	Som
Name of the Faculty Member	Er. Sanjay Kumar Nayak.

# B.I.E.T.

## SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
Simple stress & strain:- Types of load stresses & strains	24/09		
Axial and tangential Hooke's law. young's modulus, bulk modulus modulus of rigidity Poisson's ratio, derive the relation between three elastic constants.	26/09		
Principle of super position, stresses in composite section Temperature stress, determine the temperature stress in composite bar (single core)	27/09		
strain energy and resilience, stress due to gradually applied suddenly applied and impact load.	28/09		






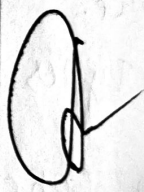





# B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
3.2 location of principal plane and computation of principal stress.	29/10	\$	
3.3 location of principal plane and computation of principal stress and maximum shears stress using Mohr's circle	01/11	\$	
4.0 Bending moment & shear force.	02/11 & 03/11	\$	
4.1 Types of beam and load	05/11	\$	
4.2 Concepts of shear force and bending moment	09/11 & 10/11	\$	
4.3 shear force and Bending moment diagram and its salient features illustration in cantilever beam, simply supported beam and over hanging beam under point load and uniformly distributed load.	14/11	\$	
	14/11	\$	
	15/11	\$	
	16/11	\$	
	19/11	\$	
		\$	


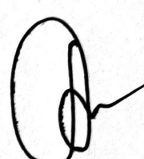





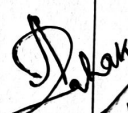


# B.I.E.T.

## SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE THE H.O.D
5.0 Theory of simple bending	21/11		
5.1 Assumptions in the theory of bending.	22/11		
5.2 Bending equation, moment of resistance, section modulus & neutral axis.	23/11		
5.3 solve simple problems.	24/11		
6.0 Combined direct & bending stresses.	24/11		
6.1 Define column	28/11		
6.2 Axial load Eccentric load on column.			
6.3 Direct stresses, Bending stress, maximum & minimum stress, Numerical problem above.	29/11		
6.4 Buckling load computation using Euler's formula (No derivation) in columns with various end conditions.	03/12		
	05/12		

# B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
7.0 Torsion	06/12		
7.0 Assumption of pure torsion	07/12		
7.1 The torsion equation for solid and hollow circular shaft.	10/12		
	12/12		
7.2 Comparison between solid and hollow shaft subjected to pure torsion.	14/12		
	16/12		
	Seen Jeejyun 12.9.22		
	 10/11/22		