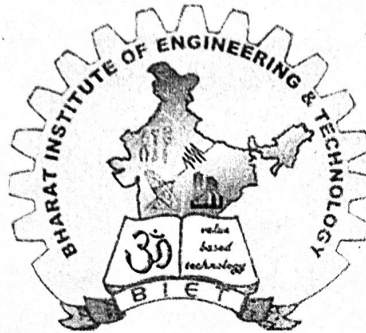


BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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






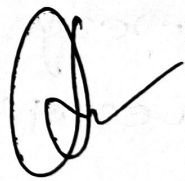


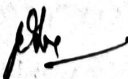
STUDENT'S ATTENDANCE REGISTER

Time	9.05	2.45			
Day	9.55	3.35			
MON	✓				
TUE	✓				
FRI	✓				
SAT		✓			

Year/ Session	3rd yr. Winter 2022	Sem. start Dt 15/09/22 To Dt 22/12/22
Semester & Branch	5th Sem, Mechanical Branch	
Subject with Code	Design of M/c Elements (TH-2)	
Name of the Faculty Member	Er. Ramkrushna Mohanty	

B.I.E.T.

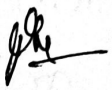


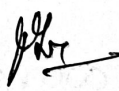
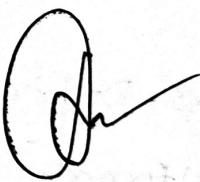
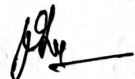
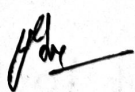


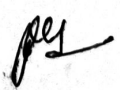
SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
<u>1.0. Introduction</u>			
1.1. Introduction to m/c Design and classify it.	16/09/22		
1.2. Different mechanical engg materials used in Design with their uses and their mechanical and physical properties.	19/09/22 20/09/22		
1.3. Define working stress, ultimate stress and factor of safety and stress, strain curve for M.S. and C.I.	23/09/22 24/09/22		
1.4. Modes of failure (By Elastic deflection, general yielding and fracture).	26/09/22 27/09/22		
1.5. State the factors governing Design of m/c elements.	30/09/22		
1.6. Describe Design procedure	01/10/22		

~~Seen~~
Dreddy 12.9.22


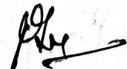
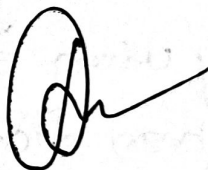



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SYLLABUS COVERAGE

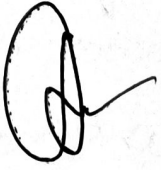
TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
2.0. Design of Fastening Elements. <hr style="border: none; border-top: 1px wavy black; width: 100%;"/>			
2.1. Joints and their classification.	14/10/22 15/10/22		
2.2. state types of welded joints.	17/10/22		
2.3. state advantages of welded joints over other joints.	18/10/22		
2.4. Design of welded joints for eccentric loads.	21/10/22		
2.5. state types of riveted joints and types of rivets.	22/10/22		
2.6. Describe failure of riveted joint	25/10/22		
2.7. Determine strength and eff. of riveted joints.	28/10/22		
2.8. Design of riveted joint for pressure vessel	29/10/22		
2.9. Solve numerical on welded joints and riveted joints.	31/10/22		

B.I.E.T.

SYLLABUS COVERAGE

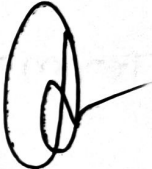
TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
<p>3.0. Design of shafts and keys</p> <hr/>			
3.1. state function of shafts.	1/11/22		
3.2. state materials for shafts.	4/11/22 5/11/22		
3.3. Design solid and hollow shafts to transmit a given power at a given rpm based on,	7/11/22		
a) Strength : (i) Shear stress	11/11/22		
(ii) Combined bending tension.	12/11/22		
b) Rigidity : (i) Angle of twist			
(ii) Deflection, (iii) Modulus of rigidity.			
3.4. state standard size of shaft as per I.S.	14/11/22		
3.5. state function of keys, types of keys and material of key.	15/11/22		

B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
3.6. Describe failure of key, Effect of key way.	18/11/22 19/11/22	<i>phr</i>	
3.7 Design of rectangular key considering its failure against shear and crushing.	21/11/22	<i>phr</i>	
3.8. Design rectangular sunk key by using empirical relation for given diameter of shaft.	22/11/22	<i>phr</i>	
3.9. state specification of parallel key, gib-head key, taper key as per I.S.	23/11/22 ^E	<i>phr</i>	
3.10. Solve numerical on Design of shaft and keys.	24/11/22 ^E	<i>phr</i>	




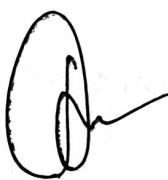




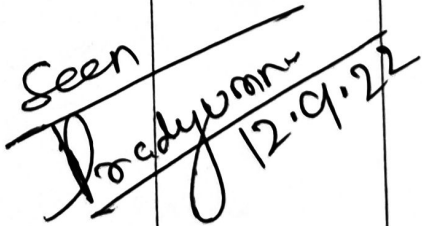
B.I.E.T.

SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
<u>4.0. Design of Coupling</u>			
4.1. Design of shaft coupling.	25/11/22	<i>phr</i>	
4.2. Requirement of a good shaft coupling.	26/11/22	<i>phr</i>	
4.3. Types of Coupling.	28/11/22	<i>phr</i>	
4.4. Design of sleeve or muff coupl.	29/11/22	<i>phr</i>	
4.5. Design of clamp or Comp.n. Coupling.	2/12/22	<i>phr</i>	
4.6. Solve simple numerical on above	3/12/22	<i>phr</i>	

B.I.E.T.

SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
5. Design of closed coil Helical Spring			
5.1. Materials used for helical Spring.	5/12/22 6/12/22		
5.2. Standard size spring wire	9/12/22 10/12/22		
5.3. Terms used in comp ⁿ Spring.	12/12/22 13/12/22		
5.4. stress in helical Spring of a circular wire	14/12/22 15/12/22 ^E		
5.5. Deflection of helical Spring of circular wire	16/12/22 17/12/22		
5.6. Surge in Spring.	19/12/22 20/12/22		
5.7. Solve numerical on design of closed coil helical comp ⁿ Spring.	21/12/22 22/12/22		
		Seen  12.9.22	


19/11/22