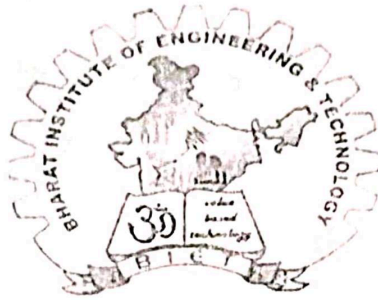


5th Civil

BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



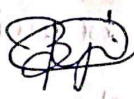


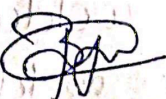



STUDENT'S ATTENDANCE REGISTER

Time	9:55	10:45	1:55		
Day	10:45	11:30	2:45		
MON	✓				
WED			✓		
THU	✓				
SAT		✓			

Year/ Session	15/9/22 to 22/12/22
Semester & Branch	5 th Sem, Civil department
Subject with Code	Th-2 - Structural Design - II
Name of the Faculty Member	B. Periakumar Prapathy






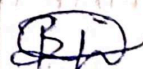

B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
<u>CHAPTER-1</u>			
INTRODUCTION:			
- Common steel structures, Advantages & disadvantages of steel structures	15.09.22		
- Types of steel, properties of structural steel	19.09.22		
- Rolled steel sections, special considerations in steel design	20.09.22		
- Loads & Load Combinations			
- Structural analysis & design philosophy	21.09.22		
- Brief view of principles of Limit state design	21.09.22		
<u>CHAPTER -2</u>			
STRUCTURAL STEEL FASTENERS & CONNECTIONS.			
- Bolted Connections			
- Classification of bolts, advantages	29.09.22		 12/9/22


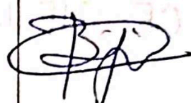



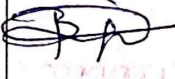
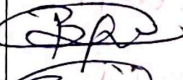
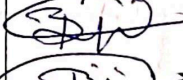



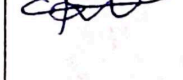
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SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
<ul style="list-style-type: none"> & disadvantages of bolted connections • Different terminology, spacing & edge distance of bolt holes 	24.09.22		
<ul style="list-style-type: none"> • Types of bolted connections • Types of action fasteners, assumptions & principles of design 	26.09.22		
<ul style="list-style-type: none"> • Strength of plates in a joint, strength of bearing type of bolts (shear capacity & bearing capacity), reduction factors & shear capacity of HSFG bolts 	28.09.22		
<ul style="list-style-type: none"> • Analysis & design of Joints using bearing type & HSFG bolts (except eccentric load & prying forces) 	29.09.22		
<ul style="list-style-type: none"> • Efficiency of a Joint[±] <p style="margin-left: 20px;">Welded Connections-</p>	1.10.22		
<ul style="list-style-type: none"> • Advantages & disadvantages of welded connection 	12.10.22		
<ul style="list-style-type: none"> • Types of welded joints & specifications for welding 	13.10.22		

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TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
• Design of stresses in welds	15.10.22		
• Strength of welded joints	17.10.22		
<u>CHAPTER-3</u>			
DESIGN OF STEEL TENSION MEMBER -			
• Common shapes of tension members	18.10.22		
	19.10.22		
	20.10.22		
• Maximum values of effective Slenderness ratio	22.10.22		
	25.10.22		
	26.10.22		
	27.10.22		
Analysis & Design of tension members (Considering strength only & concept of block shear failure)	29.10.22		
	31.10.22		
	2.11.22		



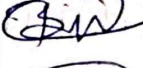

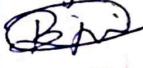
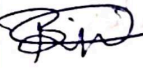

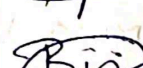
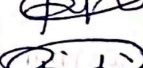


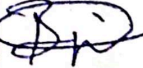
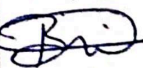
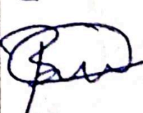

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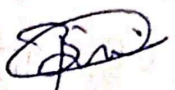

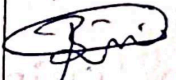
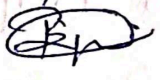







TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.
<u>CHAPTER-4</u>			
DESIGN OF STEEL COMPRESSION MEMBER			
• Common shapes of compression members	3-11-22	<i>[Signature]</i>	
	5-11-22	<i>[Signature]</i>	
	7-11-22	<i>[Signature]</i>	
• Buckling class of cross sections	9-11-22	<i>[Signature]</i>	
	10-11-22	<i>[Signature]</i>	
• sl slenderness Ratio	12-11-22	<i>[Signature]</i>	
	14-11-22	<i>[Signature]</i>	
• Design compressive stress & strength of compression members	15-11-22	<i>[Signature]</i>	
	16-11-22	<i>[Signature]</i>	
• Analysis & Design of compression members (axial loads only)	17-11-22	<i>[Signature]</i>	

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SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
<u>CHAPTER - 5</u>			
DESIGN OF STEEL BEAMS:-			
<ul style="list-style-type: none"> • Common cross sections & their Classification • Deflection limits, web buckling & web crippling • Design of laterally supported beams against bending & shear. 	19.11.22		
	21.11.22		
	22.11.22		
	23.11.22		
	23.11.22		
	24.11.22		
	26.11.22		
	28.11.22		
	30.11.22		
	1.12.22		
<u>CHAPTER - 6</u>			
DESIGN OF TUBULAR STEEL STRUCTURES			
Round Tubular sections	3.12.22		
Permissible stresses	5.12.22		
	6.12.22		
Tubular Compression & Tension members	7.12.22		 12/9/22

B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
• Joints in Tubular trusses	7.12.22 08.12.22	 	
<u>CHAPTER-7</u>			
DESIGN OF MASONRY STRUCTURES			
• Design considerations for masonry walls & columns	10.12.22		
Load Bearing Wall	12.12.22		
Non-load bearing walls	13.12.22		
Permissible stresses	14.12.22		
Slenderness Ratio	15.12.22		
Effective length	17.12.22		
Height & Thickness	19.12.22		
	21.12.22		
	22.12.22		
			12/9/22
	Verified Pradyumn 12.9.22		