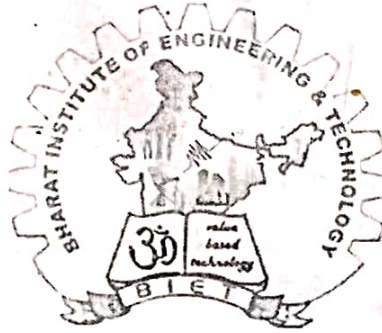


# BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



## STUDENT'S ATTENDANCE REGISTER

Time	9.55	11.30	12.25		
Day	10.45	12.25	1.15		
Mon	✓				
Tue			✓		
Wed					
Thu					
Fri		✓			
Sat			✓		

Year/ Session : 2023 (winter)	Semester from Date: 01/08/2023 To Date : 30/11/2023
Semester & Branch	5th sem, civil
Subject with Code	Th-02 Structural Design - 2
Name of the Faculty Member	Bipin Kumar Upadhyay
No of Weeks:	No of Class Allotted/Week :

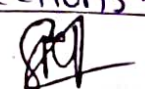
# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
August			ix) <u>Introduction</u>
		1.8.23	iy) Common steel structure, advantages and disadvantages of steel structure.
		4.8.23	ix) Types of steel, properties of structural steel.
		5.8.23	iiy) Rolled steel sections, special considerations in steel design.
		7.8.23	iv) Loads & load combination v) structural analysis & design
		8.8.23	Philosophy vi) Brief review of principles of limit state design.
			2) <u>Structural steel fasteners &amp; connections</u>
August		11.8.23	iy) Bolted connections
		12.8.23	iiy) Classification of bolts, advantages & disadvantages of bolted connections.
		14.8.23	iiiy) Different terminology, spacing & edge distance of bolt holes. iv) Types of bolted connections.

Signature of the Faculty:



Signature of the Principal/Course Co-ordinator/HOD:



# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
August		18.8.23	vi) Types of fasteners, assumptions and principles of design.
		19.8.23	vii) strength of plates in a joint, strength of bearing type bolt, reduction factor and shear capacity of HSFG bolts.
		21.8.23	viii) Analysis & design of joints using bearing type and HSFG bolts.
August		22.8.23	ix) Efficiency of bolt
		25.8.23	x) Welded Connection
August		26.8.23	xi) Advantages & disadvantages of welded connection.
		28.8.23	xii) Types of welded joints & specification for welding.
		28.8.23	xiii) Design stresses in welds. xiv) strength of welded joints.

Signature of the Faculty





Signature of the Principal/Course Co-ordinator/HOD:



# B.I.E.T., COURSE PLAN


Month	Week	Class Day	Theory/Practical Topic
September		29.8.23	3/ <u>Design of steel tension members</u> i) Common shapes of tension members. ii) Maximum values of effective slenderness ratio. iii) Analysis & Design of tension members.  4/ <u>Design of steel compression members</u> i) Common shapes of compression members. ii) Buckling class of cross-sections Slenderness ratio. iii) Design Compressive stress & strength of compression members. iv) Analysis & design of compression members
		1.9.23	
		2.9.23	
		4.9.23	
		5.9.23	
		8.9.23	
		9.9.23	
		11.9.23	
		12.9.23	
		15.9.23	
September		16.9.23	
		17.9.23	
		18.9.23	
		22.9.23	
		23.9.23	
September		25.9.23	
		26.9.23	
		29.9.23	
		30.9.23	
		3.10.23	

Signature of the Faculty: 

Signature of the Principal/Course Co-ordinator/HOD: 

# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
October			5) <u>Design of steel structure</u>
		6.10.23	5) Common cross sections &
		7.10.23	their classification
		9.10.23	11) Deflection limits, web
		10.10.23	chuckling & web crippling.
		13.10.23	11) Design of laterally
		16.10.23	supported beams against
		17.10.23	bending and shear.
		30.10.23	6) <u>Design of tubular steel</u>
		31.10.23	<u>structure</u>
November		3.11.23	6) Round tubular sections,
		4.11.23	permissible stresses
		6.11.23	11) tubular compression &
		7.11.23	tension members.
		10.11.23	11) Joints in tubular trusses.
		11.11.23	
		13.11.23	

Signature of the Faculty: 

Signature of the Principal/Course Co-ordinator/HOD: 

# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
November			7) Design of <u>Masonry Structure</u>
		16.11.23	8) Design considerations for Masonry walls & columns.
		17.11.23	9) Load bearing & Non load bearing walls.
		18.11.23	10) Permissible stresses.
		20.11.23	11) Slenderness ratio.
		21.11.23	12) Effective length
		23.11.23	13) height & thickness.
		24.11.23	
	25.11.23		
	28.11.23		

Signature of the Faculty:



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