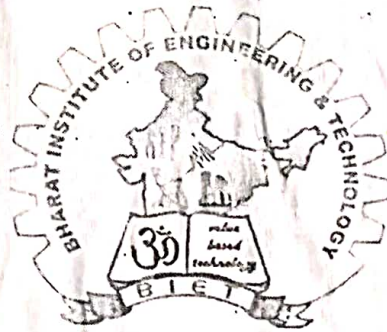


# BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



## STUDENT'S ATTENDANCE REGISTER

Time \ Day	9:05 9:55	9:55 10:45	10:45 11:35	1:55 2:45	
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-03 Railway & Bridge Engineering
Name of the Faculty Member	Saranya Ranjan Pattnaik
No of Weeks:	No of Class Allotted/Week :

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

Month	Week	Class Day	Theory/Practical Topic
AUGUST	1 <sup>st</sup>	2.08.2023	<u>CHAPTER-1</u> <u>INTRODUCTION</u> 1.1 Railway terminology 1.2 Advantages of railway 1.3 Classification of Indian Railways
		3.08.2023	
		4.08.2023	
	2 <sup>nd</sup>	5.08.2023 (2)	<u>CHAPTER-2</u> <u>PERMANENT WAY</u> 2.1 Definition & Components of a Permanent way 2.2 Concept of gauge different gauges present in India Suitability of these gauges under different conditions.
		9.08.2023 (2)	
		12.08.2023	

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
			<u>CHAPTER-3</u> <u>TRACK MATERIALS</u>
	3rd	12.08.2023	3.1 Rails
		16.08.2023	3.1.1 Functions & requirement of rails
		16.08.2023	3.1.2 Type of rails sections, length of rails
		19.08.2023	3.1.3 Rail Joints - types, requirements of an ideal joint
		19.08.2023	3.1.4 Purpose of welding of rails & its advantages.
	4th	19.08.2023	3.1.5 Creep - definition, cause & prevention
		23.08.2023	3.2 Sleepers
		23.08.2023	3.2.1 Definition, function & requirements of sleepers Classification of sleepers Advantages & Disadvantages of different types of sleepers
		23.08.2023	3.3 Ballast
		26.08.2023	3.3.1 Functions & requirements of Ballast
		26.08.2023	3.3.2 Materials for Ballast

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

Month	Week	Class Day	Theory/Practical Topic
SEPTEMBER	1 <sup>st</sup>	26.08.2023	3.4 Fixtures for Broad Gauge
		02.09.2023	3.4.1 Connection of rails to rail-fish plate, fish bolts
	2 <sup>nd</sup>        3 <sup>rd</sup>	02.09.2023	3.4.2 Connection of rails to sleepers
		<u>CHAPTER-4</u>	
		<u>GEOMETRIC FOR BROAD GAUGE</u>	
		02.09.2023	4.1 Typical cross-sections of single & double broad gauge railway track in cutting & embankment.
		9.09.2023 (2)	4.2 Permanent & temporary land width
		13.09.2023 (2)	4.3 Gradients for drainage
		16.09.2023 (2)	4.4 Superelevation - necessity & limiting values.
		23.09.2023 (2)	
27.09.2023			

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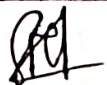
# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
			<u>CHAPTER-3</u> <u>BRIDGE FOUNDATION</u>
	2 <sup>nd</sup>	4.11.2023 (2)	3.1. Scour depth minimum depth of foundation
		8.11.2023 (2)	3.2. Types of bridge foundations - Spread foundation
	3 <sup>rd</sup>	10.11.2023	Pile foundation
		11.11.2023 (2)	Well foundation - sinking of wells,
		15.11.2023	Caisson foundation
			3.3. Cofferdams

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

Month	Week	Class Day	Theory/Practical Topic
			<u>CHAPTER-4</u>
			<u>BRIDGE SUB-STRUCTURES &amp; APPROACHES.</u>
		15.11.2023	4.1.
		18.11.2023 (2)	Types of piers
			4.2 Types of abutments
	4TH	22.11.2023 (2)	4.3 Types of wing walls
			4.4 Approaches
			<u>CHAPTER-5</u>
			<u>CULVERT &amp; CAUSEWAYS</u>
		24.11.2023	5.1.
		25.11.2023 (2)	Types of culverts - brief description
			5.2. Types of causeways - brief description
		29.11.2023 (2)	

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