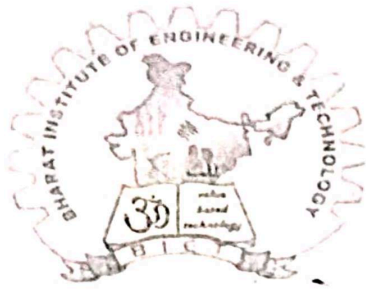


5th Civil

BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



STUDENT'S ATTENDANCE REGISTER

Time	9:05	9:55	11:35		
Day	9:55	10:45	12:25		
WED	✓				
THU		✓			
FRI			✓		
SAT		✓			

Year/ Session	15-09-22 - 22-12-22
Semester & Branch	5 th Sem, Civil department
Subject with Code	Th-3 Railway Engineering
Name of the Faculty Member	Manalisa Panda

B.I.E.T.

SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
<u>Section A Railways</u>			
1) <u>Introduction :-</u>			
i) Railway terminology	15.9.22	_____	
ii) Advantages of railway			
iii) Classification of Indian Railways.	16.9.22	_____	
2) <u>Permanent way :-</u>			
i) Definition and component of a permanent way.	21.9.22	_____	
ii) Concept of gauge, different gauges prevalent in India, suitability of these gauges under different conditions.	22.9.22	_____	
	23.9.22	_____	
	24.9.22	_____	
	28.9.22	_____	
3) <u>Track materials :-</u>			
i) Rails, function & requirement of rails.	29.9.22	_____	
ii) Types of rail sections, length of rails.	30.9.22	_____	
iii) Rail Joints - Type; requirement of an ideal joint.	1.10.22	_____	
			<p><i>Verified</i> <i>Pradyumn</i> <i>12/9/22</i></p>
			<p><i>[Signature]</i> 12/9/22</p>

B.I.E.T.


SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE THE H.O.
iv) Purpose of welding of rails & its advantages.	12.10.22	_____	
v) Creep - definition, cause & prevention.	13.10.22	_____	
vi) Sleepers: definition, function of it.			
vii) Requirements of sleepers.	14.10.22	_____	
viii) Classification of sleepers.			
ix) Advantages & disadvantages of different types of sleepers.	15.10.22	_____	
x) Ballast :- function & requirement of ballast.	19.10.22	_____	
xi) Materials for ballast.	20.10.22	_____	
xii) Fixtures for Broad gauge.			
xiii) Connection of rails to rail fish plate, fish bolts.	21.10.22	_____	
xiv) Connection of rails to sleepers.			
4) <u>Geometric for broad gauge</u>			
a) Typical cross-sections of single & double broad gauge railway track in cutting and embankment.	22.10.22	_____	
	26.10.22	_____	
	27.10.22	_____	

B.I.E.T.

SYLLABUS COVERAGE


TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
ii) Permanent & temporary land width.	28.10.22	_____	
	29.10.22	_____	
iii) Gradients for drainage	2.11.22	_____	
iv) Super elevation - necessity & limiting values.	3.11.22	_____	
	4.11.22	_____	
	5.11.22	_____	
	(2)		
v) <u>Points & crossings</u> .			
a) Definition, necessity of points & crossings.	9.11.22	_____	
	10.11.22	_____	
ii) Types of points & crossing with tie diagrams.	11.11.22	_____	
	12.11.22	_____	
vi) <u>Laying & maintenance of track</u>			
a) Methods of laying & Maintenance of track.	16.11.22	_____	
	17.11.22	_____	
ii) Duties of a permanent way inspector.	18.11.22	_____	
	19.11.22	_____	


 12/9/22

B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H
<u>Section - B</u> <u>Bridges</u>			
i) <u>Introduction to bridges</u>			
ii) Definitions	23.11.22	_____	
iii) Components of a bridge.	24.11.22	_____	
iv) classification of bridge.			
v) Requirements of an ideal bridge.			
2) <u>Bridge site investigation, hydrology & planning</u>	25.11.22	_____	
i) Selection of bridge site, alignment.	26.11.22	_____	
ii) Determination of flood discharge	30.11.22	_____	
iii) Waterway & economic span	1.12.22	_____	
iv) Afflux, clearance & free board.	2.12.22	_____	
3) <u>Bridge Foundation</u>			
i) Scour depth minimum depth of foundation.	3.12.22	_____	
ii) Types of bridge foundations	7.12.22	_____	
	8.12.22	_____	

B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
Spread foundation, pile foundation, well foundation, sinking of wells, caisson foundation 117 Cost for dams	9.12.22 (2)	_____	
	10.12.22	_____	
	14.12.22 (2)	_____	
47 <u>Bridge Substructure and approaches</u>	15.12.22	_____	
27 Types of piers	16.12.22 (2)	_____	
117 Types of abutments	17.12.22	_____	
117 Types of wing walls 107 Approaches	(3)		
57 <u>Culvert & cause ways</u>	21.12.22 (2)	_____	
27 Types of culverts - brief description	22.12.22 (3)	_____	
117 Types of cause ways - brief description.			
		Verified 12.9.22	 12/9/22