

# LESSON PLAN

Discipline: civil engineering			Name of The Teaching Faculty: Lect. ANITA PRADHAN							
Subject: Railway and bridge Engineering (TH3)			Semester From Date: 15-09-2022 To Date 22-12-2022							
SEMESTER-5th				No. Of Weeks: 14	4P/WEEK					
No. of Days/week class allotted: 04 period per week (Mon, Tue, Wed & Thus - 1 Period each)				TOTAL PERIOD-60						
MONTH	Week	DATE	DAYS	Topics to be covered	NO. OF PERIODS AVAILABLE					
				<b>Introduction</b>	<b>2</b>					
SEP	3RD	15/09/2022	THUS	1.1 Railway terminology	1					
				1.2 Advantages of railways						
	4TH	19/09/2022	MON	1.3 Classification of Indian Railways	1					
				<b>Permanent way</b>		5				
				20/09/2022	TUE	2.1 Definition	1			
				21/09/2022	WED	components of a permanent way	1			
				22/09/2022	THUS	2.2 Concept of gauge	1			
				5TH	26/09/2022	MON	Different gauges prevalent in India	1		
							27/09/2022	TUE	Suitability of these gauges under different conditions	1
							<b>Track materials</b>		10	
28/09/2022	WED	3.1 Rails	1							
		29/09/2022	THUS	3.1.1 Functions and requirement of rails	1					
				<b>3.1.2 Types of rail sections, length of rails</b>						
OCT	3RD	10/10/2022	MON	3.1.3 Rail joints – types, requirement of an ideal joint	1					
				3.1.4 Purpose of welding of rails & its advantages						
		11/10/2022	TUE	3.1.5 Creep- definition, cause & prevention	1					
		12/10/2022	WED	3.2 Sleepers	1					
	13/10/2022	THUS	3.2.1 Definition, function & requirements of sleepers	1						
	4TH	17/10/2022	MON	3.2.2 Classification of sleepers	1					
				3.2.3 Advantages & disadvantages of different						
		18/10/2022	TUE	3.3 Ballast	1					
		<b>3.3.1 Functions &amp; requirements of ballast</b>								
		19/10/2022	WED	3.3.2 Materials for ballast	1					
		3.4 Fixtures for Broad gauge								
	20/10/2022	THUS	3.4.1 Connection of rails to rail-fishplate, fish bolts	1						
			3.4.2 Connection of rails to sleepers							
	<b>Geometric for broad gauge</b>		10							
5TH	25/10/2022	TUE	4.1 Typical cross – sections of single & double broad gauge railway track in cutting	1						
			26/10/2022	WED	4.1 Typical cross – sections of single & double broad gauge railway in embankment	1				
	27/10/2022	THUS	4.2 Permanent & temporary land width	1						
	31/10/2022	MON	4.3 Gradients for drainage	1						
		1/11/2022	TUE	4.4 Super elevation	1					
		2/11/2022	WED	Necessity & limiting valued	1					

