Discipline:civil engineering				Name of The Teaching Faculty:Lect. ANITA PRADHA		
Subject:Railway and bridge Engineering(TH3) SEMESTER-5th No. of Days/week class allotted:04 period per week(Mon,Tue,Wed & Thus-1 Period each)				Semester From Date:15-09-2022To Date 22-12-2022		
				No. Of Weeks:14	4P/WEEK	
					TOTAL PERIOD-60	
MONTH	Week	DATE	DAYS	Topics to be covered	NO. OF PERIODS AVAILABLE	
				Introduction	2	
	3RD	15/09/2022	THUS	1.1 Railway terminology 1.2 Advantages of railways	1	
		19/09/2022	MON	1.3 Classification of Indian Railways	1	
	4TH	10/00/2022	141014	Permanent way	5	
		20/09/2022	TUE	2.1 Definition	1	
		21/09/2022	WED	components of a permanent way	1	
SEP		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	
				Track materials	10	
		28/09/2022	WED	3.1 Rails	1	
		29/09/2022	THUS	3.1.1 Functions and requirement of rails	1	
		-,,		3.1.2 Types of rail sections, length of rails	_	
	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	
ОСТ		13/10/2022	THUS	3.2.1 Definition, function & requirements of sleepers	1	
	4ТН	17/10/2022	MON	3.2.2 Classification of sleepers 3.2.3 Advantages & disadvantages of different	1	
		18/10/2022	TUE	3.3 Ballast	1	
				3.3.1 Functions & requirements of ballast		
		19/10/2022	WED	3.3.2 Materials for ballast 3.4 Fixtures for Broad gauge	1	
		20/10/2022	THUS	3.4.1 Connection of rails to rail-fishplate, fish bolts 3.4.2 Connection of rails to sleepers	1	
				Geometric for broad gauge	10	
	5TH	25/10/2022	TUE	4.1Typical cross – sections of single & double broad gauge railway track in cutting	1	
		26/10/2022	WED	4.1Typical 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	

NOV	1ST	3/11/2022	THUS	Numerical problems	1
		7/11/2022	MON	Numerical problems	1
	2ND	9/11/2022	WED	Numerical problems	1
		10/11/2022	THUS	Class test	1
				Points and crossings	4
		14/11/2022	MON	5.1 Definition	1
		15/11/2022	TUE	Necessity of Points and crossings	1
		16/11/2022	WED	5.2 Types of points with tie diagrams	1
	3RD	17/11/2022	THUS	5.2 Types of points with the diagrams	1
	3110	17/11/2022	11100	Laying & maintenance of track	4
		21/11/2022	MON		1
				6.1 Methods of Laying & maintenance of track	
		22/11/2022	TUE	6.1 Methods of Laying & maintenance of track	1
		23/11/2022	WED	6.2 Duties of a permanent way inspector	1
	4TH	24/11/2022	THUS	6.2 Duties of a permanent way inspector	1
				Section – B: BRIDGES	
	<u> </u>			Introduction to bridges	2
		28/11/2022	MON TUE	1.1 Definitions	1
				1.2 Components of a bridge	
				1.3 Classification of bridges	1
				1.4 Requirements of an ideal bridge	_
				Bridge site investigation, hydrology & planning	5
	5TH	30/11/2022	WED	2.1 Selection of bridge site, Alignment,	1
DEC	1ST	1/12/2022	THUS	Numerical problems	1
		5/12/2022	MON	2.3 Waterway & economic span	1
		6/12/2022	TUE	2.4 Afflux	1
		7/12/2022	WED	Clearance & free board	1
				Bridge foundation	8
	2ND	8/12/2022	THUS	3.1 Scour depth	1
		12/12/2022	MON	Minimum depth of foundation	1
		13/12/2022	TUE	3.2 Types of bridge foundations	1
		14/12/2022	WED	Spread foundation	1
	3RD	15/12/2022	THUS	Pile foundation- well foundation	1
		19/12/2022	MON	Sinking of wells, caission foundation	1
		20/12/2022	TUE	3.3 Coffer dams	1
	4TH	21/12/2022	WED	Class test	1
		22/42/2022	TITIO	Bridge substructure and approaches	5
	1	22/12/2022	THUS	4.1 Types of piers	1
	1	1		4.2 Types of abutments 4.3 Types of wing walls	1 1
	1	1		4.4 Approaches	1
	1	†		Class test	1
	1	EXTRA		Culvert & Cause ways	5
	1	CLASS		 	
		CLASS		5.1 Types of culvers – brief description	1
		1		5.1 Types of culvers – brief description	1
		1		5.2 Types of causeways – brief description 5.2 Types of causeways – brief description	1 1
	+	1			
	1			Class test	1