Decipline:		Semester: 5th	Name of the Teaching Faculty:		
Civil Engineering		No of days/ per week	SAIRAM MISHRA		
		class allotted: 4			
		PIDGE ENGINFERING	Semester From date :01.08.2023		
ubject: RA	LWAY & B	RIDGE ENGINEERING	To Date : 30.11.2023		
lo. of Perio	ds: 60		No. of Weeks: 16		
			Theory/ Practical Topics		
Veek	Class Day	1.1 Railway terminology			
	1st	1.1 Railway terminology	The state of the s		
		1.2 Advantages of railways 1.3 Classification of Indian R	ailways		
Aug-1st	2nd	a will and compone	nts of a permanent way		
Yag Tar	3rd	2.1 Definition and compone	rent gauges prevalent in India, suitability of these gauges		
9	4th	under different conditions			
	1 /	3.1 Rails, Functions and requirement of rails			
April 1	5TH	Types of rail sections, length of rails			
	6th				
Aug-2nd	7th	Rail joints – types, requirement of an ideal joint			
	8th	Purpose of welding of rails & its advantages			
$A = A^{-1}$	9th	Creep- definition, cause & prevention			
Aug-3rd Aug-4th	10th	Sleepers, Definition, function & requirements of sleepers			
	11th	Classification of sleepers			
	12th	Advantages & disadvantages of different types of sleepers			
	13th	Ballast, Functions & requirements of ballast, Materials for ballast			
		Fixtures for Broad gauge, Connection of rails to rail-fishplate, fish bolts			
	14th	Connection of rails to sleepers			
	15th	4.1Typical cross – sections of single & double broad gauge railway track in cutting and embankment			
	16th	Permanent & temporary land width			
	17th	4.3 Gradients for drainage			
	18th	4.3 Gradients for drainage			
Sep-1st	19th	4.4 Super elevation – necessity & limiting valued			
104167	20th		4.4 Super elevation – necessity & limiting valued		
	21st	Problem Solving			
Sep-2nd	22nd	Problem Solving			
	23rd	Problem Solving			
	24th	Problem Solving			
Sep-3rd	25th	Introduction to bridges, Def	initions,Components of a bridge		
	26th	Classification of bridges, Requirements of an ideal bridge			
	27th	Selection of bridge site, Alignment,			
	28th	Determination of Flood Discharge Waterway & economic span			
Sep-4th Oct-1st	29th				
	30th	Afflux, clearance & free board			
	31st	Internal Assessment Test			
	32nd	Points and crossings, Definition, necessity of Points and crossings Points and crossings, Definition, necessity of Points and crossings			
	33rd 34th	Points and crossings Types	s of points & crossings with tie diagrams		
	35th	Types of points & crossings	with tie diagrams		
	36th				
		Methods of Laying & maintenance of track			
177 (8)	27th	Methods of Laving & mainte			
	37th	Methods of Laying & mainte	enance of track		
Oct-2nd	38th	Duties of a permanent way	enance of track inspector		
Oct-2nd	38th 39th	Duties of a permanent way Scour depth minimum depth	enance of track inspector h of foundation		
Oct-2nd	38th 39th 40th	Duties of a permanent way Scour depth minimum depth Types of bridge foundations	enance of track inspector h of foundation - spread foundation, pile foundation-		
	38th 39th 40th 41st	Duties of a permanent way Scour depth minimum deptl Types of bridge foundations Types of bridge foundations	enance of track inspector h of foundation		
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	38th 39th 40th 41st 42nd 43rd 44th	Duties of a permanent way Scour depth minimum deptl Types of bridge foundations Types of bridge foundations well foundation – sinking of well foundation – sinking of	enance of track inspector h of foundation		
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Oct-3rd	38th 39th 40th 41st 42nd 43rd 44th 45th 46th 47th 48th	Duties of a permanent way Scour depth minimum deptl Types of bridge foundations Types of bridge foundations well foundation – sinking of well foundation – sinking of well foundation – sinking of Puja Holidays Coffer dams Types of piers, Types of abut Types of wing walls Approaches	enance of track inspector h of foundation - spread foundation, pile foundation- wells, caission foundation wells, caission foundation wells, caission foundation wells, caission foundation		
Oct-3rd Oct-4th Nov-1st	38th 39th 40th 41st 42nd 43rd 44th 45th 46th 47th 48th 49th	Duties of a permanent way Scour depth minimum depti Types of bridge foundations Types of bridge foundations well foundation – sinking of well foundation – sinking of well foundation – sinking of Puja Holidays Coffer dams Types of piers, Types of abut Types of wing walls Approaches Culvert & Cause ways, 5.1 Types	enance of track inspector h of foundation		
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Nov-3rd	54th 55th	Types of causeways – brief description Types of causeways – brief description
	56th	Types of causeways – brief description
Nov-4th	57th	Doubt clear session
	58th	Doubt clear session
	59th	Doubt clear session
9	60th	Doubt clear session

Lecturer 1397

HOD 2

Co-ordinator

GP Nabarangpar

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