

MAHARAJA POLYTECHNIC, CHRISTIBHUBANESWAR.
LESSON PLAN

NAME OF FACULTY: LOXMON MOLL SUBJECT NAME:-RAILWAY &BRIDGE ENGG. BRANCH & SEMESTER:-CIVIL ENGG& 5th SEM TOTAL NO. OF STUDENT IN THE CLASS:-34 TOTAL NO. OF CLASSES REQUIRED:-60 SESSION:-2021-22

SI.	UNIT:1	1 Railway	2 Advanta	3 Classific	UNIT:	4 Definitio	5 Concept gauges u	UNIT	Rails			6 Function 7 Types of	COLUMN TOWN	Marie Cold Beauty Marie
Topics to be covered	UNIT:1 INTRODUCTION	Railway terminology	Advantages of railways	Classification of Indian Railways	UNIT:2 PERMANENT WAY	Definition and components of a permanent way	Concept of gauge, different gauges prevalent in India, suitability of these gauges under different conditions	UNIT:3 TRACK MATERIALS		Functions and requirement of rails	1 4 6 1	rail sections, length of rails	Types of rail sections, length of rails Rail joints – types, requirement of an ideal joint	Types of rail sections, length of rails Rail joints – types, requirement of an ideal joint Purpose of welding of rails & its advantages
Topics covered on date		3-11-24-18	71-12-17-40	DS: 11.24 20		06-11-21-21	7-11-21-20		,	8.1.221	9-11-21-18		17	
Total no. of students present		31-	-17	-20		737	-20		2	N.	5		5 1	13.3
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L	Requirements of an ideal bridge	12.51.61		1	-
9	Classification of bridges	15.21.21	t1-	1/	1
100	Components of a bridge	10.01.10		Ling	
W 1850	Definitions	13.15.31	18-	9	
	UNIT (B) :1 INTRODUCTIONS	12.21-81	18-	/x	
100	The second secon			8.00	NB
-	Types of points & crossings with tie diagrams	18:81:11	-20		
23	Definition, necessity of Points and crossings	18.51.6		1	h
22	UNIT:S POINTS AND CROSSINGS	-12-21-8		600	
17	Super elevation - necessity & limiting valued	8.12.21	100000000000000000000000000000000000000	8	6
07	Gradients for drainage	07.12.21		19	
61		18.81.50		1/X	
	cutting and embankment	12.21.40	-50	8 ico	
81	UNIT:4 GEOMETRIC FOR BROAD GAUGE	१८॥ १०८		0	
		16.11.99	THE PARTY OF THE P		
LI		18.11.21	+33	6 X	1
91		28.11.21	23	8.6	200
	Fixtures for Broad gauge	12.11.21			11/
SI		18-11-18	75		
It	Functions & requirements of ballast	2.11.2	A STATE OF THE PARTY OF THE PAR	Line	
	Advantages & disadvantages of different types of sleepers Ballast	12.11.08	The second secon		
13	Signal of Siccoels	19.11.21		1 X	
15	tours to see the second of sleepers		The second secon	6.4.0	
II		12.11.81	O'G		To the last of the
	Sleepers				049

97	Types of causeways - brief description	81 -55.5.08	1 / 1	
97	Types of culvers - brief description	101 - CC.C. LI	16	- Comment
989	UNIT (B) :6 Culvert & cause ways	101 - 04 4 51	12/18	
77	IRC bridge loading	13.3.35 39		
43	Concrete bridges - classification, brief description with sketches	66-56.6.01	1	
42	Steel bridges - classification with sketches	03 - 3 - 3 - 3 - 3 - 3	LEW. D	1
17	Masonry bridges	50-35-50 DR	1	500
	UNIT (B) :5 PERMANENT BRIDGES		1000	- WA
07	Approaches	03.3.35-37	8,	1
38	Types of wing wall	85 - 58 1.00		
38	Types of abutiments	13.1.35 - 101	900	t t
37	Types of piers	81-68.1.01	8.6	
	UNIT (B) :4 BRIDGE SUBSTRUCTURE AND APPROACHES			
98	Coffer dams	18.1.25-18		
32	Types of bridge, foundations – spread foundation, pile driving, well foundation – sinking of wells, eaission foundation	t1-68.1.20 1-88.10.20	1948	
34	Scour depth minimum depth of foundation	51-88.1.40	1	
	UNIT (B) :3 BRIDGE FOUNDATION			76
55	Collection of bridge design data & sub surface investigation	03-1.83-20	Cax	"Jh
32	Afflux, elearance & free board	12-62-10-60	200	
31	Waterway & economic span	33.13.54.20		
30	Determination of flood discharge	81-12-21-19		
67	Bridge alignments	101.12.21-13	CX	U
28	Selection of bridge site	t1+18.81.81	840	
00	UNIT (B) :2 BRIDGE SITE INVESTIGATION, HYDROLOGY			

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