

DISCIPLINE: Civil Engineering  
 SUBJECT: Railway & Bridge engg.

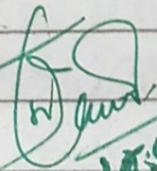
SEMESTER: 5<sup>th</sup>  
 NO OF DAYS/WEEK: 4  
 CLASS ALLOTTED: 4 NO.S

NAME OF THE TEACHING FACULTY: En. Jameswara Bisoyi  
 SEMESTER FROM: 15.09.2022 to 22.12.2022  
 NO OF WEEKS: 15

WEEKS	CLASS DAY	THEORY
	1 <sup>st</sup>	
12.09.2022	2 <sup>nd</sup>	
TO	3 <sup>rd</sup>	Introduction to Railway terminology.
17.09.2022	4 <sup>th</sup>	Advantages of railways, classification of Indian Railways.
19.09.2022	1 <sup>st</sup>	Defination and component of a permanent way.
TO	2 <sup>nd</sup>	Concept of gauge
24.09.2022	3 <sup>rd</sup>	Different gauges prevalent in India.
	4 <sup>th</sup>	Suitability of these gauges under different conditions.
26.09.2022	1 <sup>st</sup>	Continuing..
TO	2 <sup>nd</sup>	Functions and requirement of rails.
1.10.2022	3 <sup>rd</sup>	Types of rail section, length of rails.
	4 <sup>th</sup>	Rail joints - Types, requirement of an ideal joint.
03.10.2022	1 <sup>st</sup>	
TO	2 <sup>nd</sup>	
08.10.2022	3 <sup>rd</sup>	← PUJA HOLIDAY →
	4 <sup>th</sup>	
10.10.2022	1 <sup>st</sup>	Purpose of welding of rails & its advantages.
TO	2 <sup>nd</sup>	Creep- defination, cause & prevention.
15.10.2022	3 <sup>rd</sup>	Defination, function & requirement of sleepers
	4 <sup>th</sup>	Classification of sleepers.
24.10.2022	1 <sup>st</sup>	DIWALI
TO	2 <sup>nd</sup>	Typical cross-sections of single & double broad gauge railway track in cutting and embankment.
29.10.2022	3 <sup>rd</sup>	Continuing..
	4 <sup>th</sup>	Permanent & temporary land width.

WEEKS	CLASS DAY	THEORY
31.10.2022	1 <sup>st</sup>	Continuing.
TO	2 <sup>nd</sup>	Gradients for drainage.
05.11.2022	3 <sup>rd</sup>	Continuing...
	4 <sup>th</sup>	Continuing...
07.11.2022	1 <sup>st</sup>	LAST MONDAY OF KARTIK
TO	2 <sup>nd</sup>	Super elevation - necessity & limiting value.
12.11.2022	3 <sup>rd</sup>	Definition, necessity of points and crossings.
	4 <sup>th</sup>	Definition, necessity of points and crossings.
14.11.2022	1 <sup>st</sup>	Types of points & crossings with the diagrams.
TO	2 <sup>nd</sup>	PRATHAMASTAMI
19.11.2022	3 <sup>rd</sup>	Continuing --
	4 <sup>th</sup>	Continuing ---
21.11.2022	1 <sup>st</sup>	Methods of layings & maintenance of tracks.
TO	2 <sup>nd</sup>	Continuing...
26.11.2022	3 <sup>rd</sup>	Duties of a permanent way inspector
	4 <sup>th</sup>	Continuing...
28.11.2022	1 <sup>st</sup>	Components of a bridge, classification of bridges.
TO		
03.12.2022	2 <sup>nd</sup>	Requirements of an ideal bridge.
	3 <sup>rd</sup>	Selection of bridge site, Alignment.
	4 <sup>th</sup>	Determination of flood discharge.
05.12.2022	1 <sup>st</sup>	Waterway & economic span
TO	2 <sup>nd</sup>	Afflux, clearance & free board
10.12.2022	3 <sup>rd</sup>	LAST THURSDAY OF MARGASIRA
	4 <sup>th</sup>	Types of bridge foundation - spread foundation, pile foundation, well foundation, sinking of wells, caisson foundation.
12.12.2022	1 <sup>st</sup>	Scour depth minimum depth of foundation.
TO	2 <sup>nd</sup>	offer dams.
17.12.2022	3 <sup>rd</sup>	Types of abutments.
	4 <sup>th</sup>	Types of wing walls

WEEKS	CLASS DAY	THEORY
19.12.2022	1 <sup>st</sup>	Culvert & cause ways
TO	2 <sup>nd</sup>	Types of culverts causeways -
22.12.2022		brief description - brief description.
	3 <sup>rd</sup>	Continuing . .
	4 <sup>th</sup>	

Seen   
15.12.2022