Lesson Plan

Subject : R & BE ENGG. (Code):TH.3 Name of faculty: Er. Tina Guru Semester :5th

Class allotted :60p Branch :Civil Engg. Session:2024(W)

Discipline	Semester	From date: 01/07/2024 To date:26/10/2024	Teaching Aid
Subject:	No. of days/ per week:4 days/week	Theory/ Practical –Topics/Lesson	
Week	Date/Period		
1	01/07/2024 TO 06/07/2024	**Section – A: RAILWAYS** **1 Introduction** 1.1 Railway terminology 1.2 Advantages of railways 1.3 Classification of Indian Railways	White board & marker
2	08/07/2024 TO 13/07/2024	**2 Permanent way** 2.1 Definition and components of a permanent way 2.2 Concept of gauge ,different type of gauge.	White board & marker
3	15/07/2024 TO 20/07/2024	**3 Track materials** 3.1 Rails 3.1.1 Functions and requirement of rails 3.1.2 Types of rail sections, length of rails 3.1.3 Rail joints – types, requirement of an ideal joint	White board & marker & Smart board
4	22/07/2024 TO 27/07/2024	3.1.4 Purpose of welding of rails & its advantages 3.1.5 Creep- definition, cause & prevention 3.2 Sleepers	White board & marker
5	29/07/2024 TO 03/08/2024	3.2.1 Definition, function & requirements of sleepers 3.2.2 Classification of sleepers 3.2.3 Advantages & disadvantages of different types of sleepers 3.3 Ballast	White board & marker
6	05/08/2024 TO 10/08/2024	3.3.1 Functions & requirements of ballast 3.3.2 Materials for ballast 3.4 Fixtures for Broad gauge 3.4.1 Connection of rails to rail-fishplate, fish bolts 3.4.2 Connection of rails to sleepers	White board & marker
7	12/08/2024 TO 17/08/2024	**4 Geometric for broad gauge** 4.1Typical cross – sections of single & double broad gauge railway track in cutting and embankment	White board & marker & Smart board

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Tina Guru
(Sign of Faculty)

Signature of HOD

Signature of faculty

Week	Date/Period	Theory/ Practical –Topics/Lesson	Teaching Aid
8	20/08/2024 TO 24/08/2024	4.2 Permanent & temporary land width 4.3 Gradients for drainage 4.4 Super elevation – necessity & limiting valued	White board & marker
9	27/08/2024 TO 31/08/2024	**5 Points and crossings** 5.1 Definition, necessity of Points and crossings 5.2 Types of points & crossings with tie diagrams	White board & marker
10	02/09/2024 TO 06/09/2024	**6 Laying & maintenance of track** 6.1 Methods of Laying & maintenance of track 6.2 Duties of a permanent way inspector	White board & marker
11	09/09/2024 TO 14/09/2024	**Section – B: BRIDGES** **1 Introduction to bridges** 1.1 Definitions 1.2 Components of a bridge	White board & marker & Smart board
12	17/09/2024 TO 21/09/2024	1.3 Classification of bridges 3.2 Types of bridge foundations – spread foundation, pile foundation- well foundation – sinking of wells, caission foundation	White board & marker
13	23/09/2024 TO 28/09/2024	3.3 Coffer dams **4 Bridge substructure and approaches** 4.1 Types of piers	White board & marker & Smart board
14	30/09/2024 TO 05/10/2024	4.2 Types of abutments 4.3 Types of wing walls	White board & marker
15	07/10/2024 TO 09/10/2024	4.4 Approaches **5 Culvert & Cause ways** 5.1 Types of culvers – brief description	White board & marker

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Week	Date/Period	Theory/ Practical –Topics/Lesson	Teaching Aid
16	17/10/2024 TO 19/10/2024	**5. Culvert & Cause ways** 5.1 Types of culvers – brief description	White board & marker & Smart board
17	21/10/2024 TO 26/10/2024	5.2 Types of causeways – brief description	White board & marker
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(Sign. of H.O.D.)

Tina Garcia
(Sign of faculty)