

MYMENSINGH POLYTECHNIC INSTITUTE
TECHNOLOGY: CIVIL
Outline Plan of On line Teaching (Semester Plan)

Subject Name: Transportation Engineering - II
Subject Code: 66473
Semester : 7th , Shift: 1st & 2nd

T	2 Nos theory class per week
P	3 Period practical class per week
C	3 Credit hour & 1 Credit 50 Mark

Week	Theory Content		Learning Materials	Practical Job No	Practical Content	
	Specific Objectives				Practical Name	
1	Understand the history of railway. Understand the railway surveys.	1.1---1.5 & 2.1 --2.5	MARKER PEN, WHITE BOARD, MULTIMEDIA CONTENT & YOUTUBE CONTENT	1	Introducing to different equipment which is required to perform practical experiment.	
2	Understand the permanent way.	3.1---3.16		2	Expt No:- 01 Draw the section of a permanent way showing the components.	
3	Understand the concept of rail fastening.	4.1---4.7		3	Expt No:- 02 Draw the sketches of double headed rail, bull headed rail and flat footed rail with measurements.	
4	Understand the concept of using sleeper in permanent way.	5.1---5.10		4	Expt No:- 03 Draw the sketches of narrow gauge, meter gauge, broad gauge and mixed gauge used in Bangladesh showing the measurements.	
5	Understand the concept of using ballast in permanent way.	6.1---6.10		5	Expt No:- 04 Draw the sketches of fish plate, bearing plate, dog spike, screw spike, round spike and elastic spike with measurements.	
6	Understand the concept of creep in permanent way.	7.1---7.6		6	Expt No:- 05 Draw the sketches of different types of sleepers used in Bangladesh and Draw the sketches of different ballast section.	
7	Understand the curvature in railway track.	8.1---8.8		7	Expt No:- 06 Draw the sketches of wayside station, junction and terminals showing platform and other components.	
8	Understand the super elevation on curves.	9.1---9.7		8	Expt No:- 07 Draw the sketches of main track and side track of a double line railway station.	
9	Understand the concept of station and yard.	10.1-10.10		9	Expt No:- 08 Draw the sketches of different types of yards in railway & Draw the sketches of a level crossing showing all components.	
10	Understand the concept of points and crossings.	11.1---11.13		10	Expt No:- 09 Draw the sketches of points and crossing showing all components.	
11	Understand the aspects of signaling in railways.	12.1---12.12		11	Expt No:- 10 Draw the sketches of triangle, scotch block, buffer stop and derailing switch.	
12	Understand the features of Railway Bridge and culvert.	13.1---13.5		12	Expt No:- 11 Draw the sketches of acute crossing, double crossing, square crossing and diamond crossing.	
13	Understand the concept of maintenance work in railway.	14.1---14.14		13	Expt No:- 12 Prepare a model of a typical points and crossing using aluminum channel, wooden sleepers and other available materials.	
14	Understand the tunneling in railways.	15.1---15.9		14	Expt No:- 13 Visit to a nearby station to see the different components of a railway station and submit a report.	
15	Understand the basic concept of harbor. Understand the basic concept of port.	16.1---16.5 & 17.1---17.6		15	Expt No:- 14 Visit to an important harbor and port.	
16	REVIEW CLASS			16	Review , Evaluation	