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

Subject Name: Water Supply Engineering Subject Code: 66453 Semester: 5th, Shift: 1st & 2nd

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

	Theory				Practical
Week	Theory Content	Learning Materials	Practical Job No	Content	
	Specific Objectives			Practical Name	
1	Understand the concept of water supply engineering.	1.11.5		1	Introducing to different equipment which is required to perform practical experiment.
2	Understand the various aspects of consumption of water.	2.12.4		2	Expt No:- 01 Identification of pipes and fittings.
3	Understand the different sources of water.	3.13.6		3	Expt No:- 02 2 Demonstration of water purification plant and deep tube well.
4	Understand the different type of pipes & pipe joints used in water supply and the reasons for corrosion in metal pipes.	4.14.6	NTENT	4	Expt No:- 03 Maintenance works: 1 .Identify, take out and replace unserviceable fixtures/ fittings or any other component parts. 2. Identify the common troubles of submersible pump and their solutions. after visiting pump house.
5	5 Understand the collection and transmission system of water.	5.15.5	N, WHITE BOARD, MULTIMEDIA CONTENT & YOU TUBE CONTENT	5	Expt No:- 04 4 Identify the common troubles in water supply pipe lines and their solution by visiting concern authorities (WASA, City Corporation and Pourashava).
6	6 Understand the various types of impurities in water.	6.16.6	FENT & Y	6	Expt No:- 05 Conduct physical tests of water (pH value & turbidity) using field pH and turbidity meter.
7	Understand the safe water.,Understand the treatment of water by clarification.	7.17.6 & 8.1- 8.7	EDIA CON	7	Expt No:- 06 Conduct chemical tests of water (iron, manganese and chloride) using field kits.
8	Understand the treatment of water by filtration.	9.19.5	TULTIM	8	Expt No:- 07 7 Conduct the arsenic test of water using field kits.
9	Understand the treatment of water by disinfection.	10.110.5	OARD, N	9	Expt No:- 08 8 Conduct residual chlorine test using field kits.
10	Understand the treatment of water by softening.Understand the different processes of removing color, odor, taste, arsenic, iron, manganese and salinity.	11.111.4 & 12.112.6		10	Expt No:- 09 Conduct hardness test using field kits.
11	Understand the different water distribution methods.	13.113.6	MARKER PE	11	Expt No:- 10 Physically identify different parts of a) No. 6 hand pump, b) Deep-set (tara) hand pumps. c) Submersible pump
12	Understand different types of reservoir. Understand the construction and maintenance of distribution system.	14.114.3 & 15.115.2		12	Expt No:- 11 Inspect installation of a) No. 6 hand pump
13	Understand the water supply systems with specific reference to rural Bangladesh.	16.116.6		13	Expt No:- 12 Inspect installation of b) deep-set (Tara) hand pumps
14	Understand the importance of plumbing system.	17.117.7		14	Expt No:- 13 Inspect installation of c) Submersible pump
15	Understand the effect of socio- economic factors on water supply and sanitation.	18.118.3		15	REVIEW CLASS
16	REVIEW CLASS			16	END OF THE SEMESTER