MYMENSINGH POLYTECHNIC INSTITUTE **TECHNOLOGY: CIVIL**

Outline Plan of On line Teaching (Semester Plan)

Subject Name: Hydraulics				Т	2 Nos theory class per week
Subject Code: 66456				Р	3 Period practical class per week
Semester : 5 th , Shift: 1st & 2nd				С	3 Credit hour & 1 Credit 50 Mark
				Practical	
Week	Content		ning rials	Practical	Content
	Specific Objectives		Lear Mate	Job No	Practical Name
1	Discussion on the basic concept of fluid and its properties.	1.11.4		1	Introducing to different equipment which is required to perform practical experiment.
2	Discussion on the aspects of fluid pressure.	2.12.7		2	Expt No:- 01 Measurement of pressure by using a piezometer & a simple manometer.
3	Discussion on the techniques of measuring the fluid pressure.	3.13.6	L	3	Expt No:- 02 Measurement difference of pressure by using differential & inverted differential manometer.
4	Discussion on the concept of total pressure and center of pressure on immerged plane surface	4.14.7	CONTEN	4	Expt No:- 03 Demonstration on proof of Bernoulli's theorem.
5	Discussion on the fundamental concepts of buoyancy.	5.15.4	U TUBE	5	Expt No:- 04 Measurement discharge through a pipe line by venturimeter.
6	Discussion on the principles of flow of liquid under different conditions.	6.16.4	ENT & YO	6	Expt No:- 05 Determination coefficient of discharge (Cd), coefficient of velocity (Cv) and coefficient of contraction (Cc).
7	Discussion on the concept of Bernoulli's theorem.	7.17.5	DIA CONT	7	Expt No:- 06 Measurement discharge through a triangular notch (V-notch) and calculate coefficient of discharge.
8	Discussion on d the aspects of flow through orifice and mouthpiece.	8.18.7	OLTIME	8	Expt No:- 07 Determination co-efficient of friction in GI and PVC pipe.
9	Discussion on the aspects of different types of losses of head of flowing liquid.	9.19.4	ARD, MI	9	Expt No:- 08 Measurement the loss of head due to friction in pipe.
10	Discussion on the aspects of friction and flow through pipes.	10.110.7	VHITE BO	10	Expt No:- 09 Measurement the loss of head due to sudden enlargement and sudden contraction of pipe.
11	Discussion on the principle of flow through notches.	11.111.7	R PEN, V	11	Expt No:- 10 Observe different types of flow in a typical open channel.
12	Discussion on the principle of flow through weirs.	12.112.6	MARKE	12	Expt No:- 11 Measurement velocity of flow in a typical open channel by a current meter, a float, a pitot tube.
13	Discussion on the aspects of flow of liquid through open channel.	13.113.4		13	Expt No:- 12 Observe hydraulic jump in a typical open channel due to obstruction of flow by a weir and measure the depth of the jump.
14	Discussion on the aspects of flow of liquid through open channel.	13.513.7		14	Expt No:- 13 Discussion on all previous class.
15	REVIEW CLASS			15	REVIEW CLASS
16	REVIEW CLASS			16	END OF THE SEMESTER