



TENTATIVE TEACHING PLAN

Department: **Civil Engineering**

Name of Teacher: **Engr.Farhan Qureshi**

Subject: **Applied Hydraulics (Practical)**

Course Code: **CE241**

Batch: **21CE(A+B+C+D)**

Year: **2nd**

Semester : **4th**

Semester Starting Date: **03-07-2023**

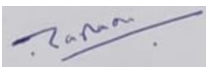
Semester Suspension Date: **20-10-2023**

Course Learning Outcomes (CLOs):

Upon successful completion of the course, the student will be able to:

CLO	Description	Taxonomy Level	PLO
3	MANAGE experimentally the open channel, pipe network flows and investigate technically the usage of hydraulic machines in daily life and their effect on environment.	P5	4

S #	Object	No: of practical hours required
1.	Introduction to Practical contents, Equipment and HSE (Health, Safety and Environment) measures.	3
2.	To determine the Coefficient of weir C_w for a broad-crested weir	3
3.	To determine the Coefficient of weir C_w for a sharp-crested weir.	3
4.	To determine the Coefficient of weir C_w for an ogee weir.	3
5.	To determine the friction factor of a pipe by using fluid friction apparatus	3
6.	To determine friction factor of a Slanted seat valve by using fluid friction apparatus.	3
7.	To determine friction factor of a Socket shut-off gate valve by using fluid friction apparatus.	3
8.	To determine minor losses due to a pipe bend by using fluid friction apparatus.	3
9.	To determine minor losses due to a 90° elbow by using fluid friction apparatus.	3
10.	To determine minor losses due to 45° elbow by using fluid friction apparatus.	3
11.	To determine minor losses due to gradual enlargement and contraction. by using fluid friction apparatus	3
12.	To determine minor losses due to Line and Branched flow at 90° Tee.	3
13.	To determine minor losses due to a sharp 90° elbow using losses in pipes and bends apparatus.	3
14.	To determine loss coefficient of a bent pipe using Losses in pipes and bends apparatus.	3
15.	To observe the real fluid flow by using Laminar flow analysis table.	3
16.	To perform an Open-ended lab.	3
Total		48

Signature of Teacher: 

Dated: 20-06-2023

Remarks of DMRC: **APPROVED**

Signature of Chairman: 

Dated: 01-08-2023

