



TENTATIVE TEACHING PLAN

Dec.01.2001

DEPARTMENT/INSTITUTE/DIRECTORATE: CIVIL ENGINEERING

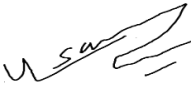
Department: Civil Engineering
Name of Teacher: Engr. Hafiz Usama Imad
Subject: Fluid Mechanics & Hydraulics Course Code: CE227
Batch: 22CE (D) Year: 2nd Semester: 3rd
Semester Starting Date: 20-11-2023 Semester Suspension Date: 29-03-2024

Course Learning Outcomes (CLOs): Upon successful completion of the course, the student will be able to:

Table with 4 columns: CLO No., Description, Taxonomy Level, Linking to PLOs. Contains 2 rows of CLOs.

Table with 4 columns: S.#, TOPICS, CLO, No. of Lecture Required. Lists 18 topics from Properties of Fluid to Open Channel Flow and its Classifications.

19.	Chezys's and Manning's velocity equations	2	2
20.	Problems on Chezys's and Manning's velocity equations	2	2
Design of Open Channels and Their Properties			
21.	Geometry and Design of Open Channels and Their Properties	2	3
22.	Design of most efficient, effective and economical open channel sections	2	3
Energy and Momentum Principles			
23.	Energy and Momentum Principles and their applications	2	1
24.	Hydraulic jump and its applications	2	3
Flow Rate Measurement in Open Channels			
25.	Measurement of discharge through weirs, modular and non-modular venturi-flumes.	2	3
Introduction to subject relevant software's			
26.	Introduction to MOD Flow	2	1
TOTAL			48

Signature of Teacher: 

Dated: 18/11/2023

Remarks by DMRC: **APPROVED**

Signature of Chairman: 

Dated: 21/12/2023