

**TENTATIVE TEACHING PLAN**

Name of Teacher	Engr. Mukhtiar Ali							
Subject	Fluid Mechanics PG-213	Batch	24	Year	second	Semester	first	
Semester Starting Date	14-07-2025	Semester Suspension Date						

CLO	Description	Taxonomy	Linked to PLO
1	Describe the physical properties of fluids, discharge and pressure measurement devices and to prepare hydraulic grade lines and energy lines for pipes, discharge measurement devices and apply empirical methods for uniform flow in open channels.	C2	2
2	Compute pressure and center of pressure on submerged surfaces and to analyze stability of floating and submerged bodies.	C3	3

Sr. #	TOPIC	No of Lect. Hrs req.	
1	Introduction to Fluid Mechanics & Properties of Fluid ,	2	CLO-01
2	Newtons Law of Viscosity, Rheological models	2	
3	Fluid Statics: Pascal's Law, Hydrostatic Law,	2	
4	Manometry (Incl. Differential manometer)	1	
5	Centre of Pressure & Force on Curved Surfaces	2	
6	Buoyancy, Floatation	2	
7	Introduction to Fluid Kinematics, Types of Flow	2	
8	Continuity Equation, Streamlines, Pathlines, Streaklines	3	
9	Introduction to Fluid Dynamics	2	CLO-02
10	Bernoulli's Principle	2	
11	Flow Measurement Devices: Venturi Meter & Orifice Meter	2	
12	Momentum Equation	2	
13	Free Vortex Flow	2	
14	Viscous Flow: Concepts, Equations	2	
15	Flow Between Parallel Plates, Darcy-Weisbach Equation	2	
16	Turbulent Flow + Flow Through Pipes	2	
		32	

Sig. of Teacher _____

Dated: _____

Remarks of
DMRCSign. of
Director

Dated: _____



MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY JAMSHORO.

INSTITUTE OF PETROLEUM & NATURAL GAS ENGINEERING

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