		LESSON PLAN-4 TH SEMESTER (2022-23)	
Subject-Fluid			
Name of the F			
MONT H	CHAPTER /UNIT	COURSE TO BE COVERED	CLASSES REQUIRED
decem ber	Unit-1	Properties of Fluid	08
	1	Define fluid	01
	1		
	1	Description of fluid properties like Density, Specific weight, specific gravity, specific volume and solve simple problems.	03
	2	specific gravity, specific vorume and correcting to president.	
	1	Definitions and Units of Dynamic viscosity, kinematic viscosity, surface tension Capillary phenomenon	04
	3	surface tension cupinary prenomenon	
january	Unit-2	Fluid Pressure and its measurements	08
	2	Definitions and units of fluid pressure, pressure intensity and pressure head.	02
	1		
	2	Statement of Pascal's Law.	01
	· 2		
	2.3	Concept of atmospheric pressure, gauge pressure, vacuum pressure and absolute pressure	01
	2	Pressure measuring instruments Manometers (Simple and Differential)	02
	4		
	2.4.1		01
	2.5	Solve simple problems on Manometer.	01
january	Unit- 3	Hydrostatics	08
	3.1	Definition of hydrostatic pressure	01
	3	Total pressure and centre of pressure on immersed	02
	•	bodies(Horizontal and Vertical Bodies)	
	2	Calva Simula mahlama	02
	3.3 3.4	Solve Simple problems. Archimedes 'principle, concept of buoyancy, meta center and	02
	0. -T	meta centric height (Definition only)	02
	3.5	Concept of floatation	01
february	Unit-4	Kinematics of Flow	08
	4.1	Types of fluid flow	01
	4.2	Continuity equation(Statement and proof for one dimensional flow)	02
	4.3	Bernoulli's theorem(Statement and proof) Applications and limitations ofBernoulli's	03
		theorem(Venturimeter, pitot tube)	
	4.4	Solve simple problems	02
february	Unit-5	Orifices, notches & weirs	08
	5.1	Define orifice	01
	5.2	Flow through orifice	01

	7.3	Impact of jet on moving curved vanes, illustration using velocity triangles, derivation of work done, efficiency.	05
	7.2	Derivation of work done on series of vanes and condition for maximum efficiency.	02
	7.1	Impact of jet on fixed and moving vertical flat plates	03
march	Unit-7	Impact of jets	10
	6.5	Hydraulic gradient and total gradient line	01
	6.4	Solve Problems using Darcy's and Chezy's formula.	03
	6.3	Head loss due to friction: Darcy's and Chezy's formula (Expression only)	03
	6.2	Loss of energy in pipes.	02
	6.1	Definition of pipe.	01
march	Unit-6	Flow through pipe	10
	5.7	Simple problems on above	02
	5.6	Discharge over a triangular notch or weir	01
	5.5	Discharge over a rectangular notch or weir	01
	5.4	Classifications of notches & weirs	01
	5.3	Orifices coefficient & the relation between the orifice coefficients	01