LESSON PLAN SUMMER-2022

SUBJECT- FLUID MECHANICS SEM-4th BRANCH- MECHANICAL ENGG.

SL NO	DATE	CHAPTER	TOPIC NAME	NO OF PERIODS
1	9.3.22	1.0 Properties of Fluid	1.1 Introduction to syllabus , Define fluid	1
2	11.3.22		1.2 Description of fluid properties like Density, Specific weight, specific gravity, specific volume and solve simple problems	1
3	15.3.22		specific gravity, specificvolume and solve simple problems	2
4	16.3.22		1.3 Definitions and Units of Dynamic viscosity, kinematic viscosity	1
5	22.3.22		surface tension Capillary phenomenon	1
6	23.3.22		problems practice	2
7	25.3.22	2.0 Fluid Pressure and its measurements	2.1 Definitions and units of fluid pressure, pressure intensity and pressure head	1
8	29.3.22		2.2 Statement of Pascal's Law.	1
9	30.3.22		problem practice	2
10	5.04.22		2.3 Concept of atmospheric pressure, gauge pressure,	1
11	6.04.22		2.4 Pressure measuring instruments Manometers (Simple and Differential)	2
12	8.04.22		2.5 Solve simple problems on Manometer.	1
13	12.04.22	3.0 Hydrostatic	3.1 Definition of hydrostatic pressure	1
14	13.04.22		3.2 Total pressure and centre of pressure,	1
15	19.04.22		3.3 Solved Simple Problems	1
16	20.04.22		3.4 Archimedes 'principle, concept of buoyancy,	1
17	22.04.22		meta center and meta centric height	1
18	26.04.22		3.5 Concept of floatation & problem practice	2
19	27.04.22	4.0 Kinematics of Flow	4.1 Types of fluid flow	1
20	29.04.22		4.2 Continuity equation(Statement and proof	1
21	04.05.22		4.3 Bernoulli's theorem(Statement and proof)	2
22	06.05.22		Applications and limitations of Bernoulli's theorem	1
23	10.05.22		4.4 Solve simple problems	1
24	11.05.22	5.0 Orifices, notches & weirs	5.1 Define orifice 5.2 Flow through orifice cycle	2
25	13.05.22		5.3Orifices coefficient & the relation between the orifice coefficients	1
26	17.05.22		5.4 Classifications of notches & weirs 5.5 Discharge over a rectangular notch or weir	2
27	18.05.22		5.6 Discharge over a triangular notch or weir	1
28	20.05.22		5.7 Simple problems	1
29	24.05.22		problems practice	2
30	25.05.22	6.0 Flow through pipe	6.1 Definition of pipe	1
31	27.05.22		6.2 Loss of energy in pipes	1
32	31.05.22		6.3 Head loss due to friction: Darcy's formula	1
33	1.06.22		6.3 Head loss due to friction Chezy's formula	1
34	03.06.22		6.4 Solve Problems using Darcy's and Chezy's formula	1
35	07.06.22		problems practice	1

36	08.06.22		6.5 Hydraulic gradient and total gradient line	2
37	10.06.22	7.0 Impact of jets	7.1 Impact of jet on fixed flat plates	1
38	17.06.22		Impact of jet on moving vertical flat plates	2
39	21.06.22		7.2 Derivation of work done on series of vanes	1
40	22.06.22		condition for maximum efficiency.	1
41	24.06.22		7.3 Impact of jet on moving curved vanes	1
42	28.06.22		derivation of work done, efficiency.	1
43	29.06.22		problems practice	1
			TOTAL	54

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