LESSON PLAN.

ACADEMY SESSION - SUMMER 2023

4th SEMESTER W.E.F-14/02/2023 Total Period :- 53

Subject:- Fluid Mechanics

RIZWANA SULTANA

SL NO	MONTH	Week	Date	UNIT NO/PERIOD ALLOTE	Topic to be covered as per Syllabus	Topic actually covered as per Syllabus	Short fall if any/syllabus	remarks
1	FEBRUARY	3RD	14-02-2023	8	Define fluid			
2			15-02-2023		Description of fluid properties like Density, Specific weight, specific gravity, specific & volume			
3			16-02-2023		solve simple problems			
4			16-02-2023		Definitions and Units of Dynamic viscosity, kinematic viscosity,			
5		4TH	21-02-2023		surface tension Capillary phenomenon			
6			22-02-2023		Doubt clearing class on 1st chapter			
7			23-02-2023	8	Definitions and units of fluid pressure, pressure intensity and pressure head			
8			23-02-2023		Statement of Pascal's Law			
9		5TH	28-02-2023		Concept of atmospheric pressure, gauge pressure, vacuum pressure and absolute pressure			
10	MAECH	1ST	01-03-2023		Pressure measuring instruments Manometers (simple & differential)			
11			02-03-2023		Bourdon tube pressure gauge			
12			02-03-2023		(Simple Numerical)			
13		2ND	09-03-2023		Solve simple problems on Manometer			
14			09-03-2023		Doubt clearing class on 2nd chapter			
15		3RD	14-03-2023	8	Definition of hydrostatic pressure			
16			15-03-2023		Total pressure and centre of pressure on immersed bodies			
17			16-03-2023		(Horizontal and Vertical Bodies)			
18			16-03-2023		Solve Simple problems			
19		4TH	21-03-2023		Archimedes 'principle, concept of buoyancy, meta center and meta centric height(Definition only)			
20			22-03-2023		Concept of floatation			
21			23-03-2023		Doubt clearing class on 3rd chapter			
22			23-03-2023		Types of fluid flow			
23		5TH	28-03-2023		Continuity equation (Statement and proof for one dimensional flow)			

24			29-03-2023	8	Bernoulli's theorem(Statement and proof)			
25	APRIL	2ND	04-04-2023		Applications and limitations of Bernoulli's theorem (Venturimeter, pitot tube)			
26			05-04-2023		Solve simple problems			
27			06-04-2023		Doubt clearing class on 4th chapter			
28			06-04-2023		-do-			
29		3RD	11-04-2023		INTERNAL EXAMINATION			
30			12-04-2023		Revision Internal Exam			
31			13-04-2023	8	Define orifice & Flow through orifice			
32			13-04-2023		Orifices coefficient & the relation between the orifice coefficients			
33		4TH	18-04-2023		Classifications of notches & weirs			
34			19-04-2023		Discharge over a rectangular notch or weir			
35			20-04-2023		Discharge over a triangular notch or weir			
36			20-04-2023		Simple problems on above			
37		5TH	25-04-2023		Doubt clearing class on 5th chapter			
38			26-04-2023	10	Definition of pipe			
39			27-04-2023		Loss of energy in pipes			
40			27-04-2023		Head loss due to friction: Darcy's and Chezy's formula (Expression only)			
41	MAY	1ST	02-05-2023		Solve Problems using Darcy's and Chezy's formula			
42			03-05-2023		Hydraulic gradient and total gradient line			
43			04-05-2023		Doubt clearing class on 6th chapter			
44			04-05-2023	10	Impact of jet on fixed and moving vertical flat plates			
45		2ND	09-05-2023		Derivation of work done on series of vanes			
46			10-05-2023		condition for maximum efficiency			
47			11-05-2023		condition for maximum efficiency			
48			11-05-2023		condition for maximum efficiency			
			16-05-2023		Impact of jet on moving curved vanes, illustration using velocity triangles, derivation of work, efficiency			
			17-05-2023		Impact of jet on moving curved vanes, illustration using velocity triangles, derivation of work, efficiency			

			18-05-2023		**Impact of jet on moving curved vanes, illustration using velocity triangles, derivation of work, efficiency**			
		3RD	**18-05-2023**		**Doubt clearing class on 7th chapter**			
		4TH	**23-05-2023**		REVISION			