

LESSON PLAN.

ACADEMY SESSION - SUMMER 2023

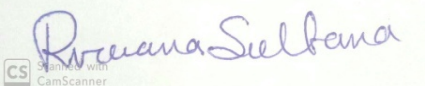
4th SEMESTER W.E.F-14/02/2023 Total Period :- 53

Subject:- Fluid Mechanics

RIZWANA SULTANA

SL NO	MONTH	Week	Date	UNIT NO/PERIOD ALL OTE	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, surface tension Capillary phenomenon			
5		4TH	21-02-2023	8	Doubt clearing class on 1st chapter			
6			22-02-2023		Definitions and units of fluid pressure, pressure intensity and pressure head			
7			23-02-2023		Statement of Pascal's Law			
8			23-02-2023		Concept of atmospheric pressure, gauge pressure, vacuum pressure and absolute pressure			
9		5TH	28-02-2023		Pressure measuring instruments Manometers (simple & differential)			
10	MARCH	1ST	01-03-2023	8	Bourdon tube pressure gauge (Simple Numerical)			
11			02-03-2023		Solve simple problems on Manometer			
12			02-03-2023		Doubt clearing class on 2nd chapter			
13		2ND	09-03-2023	8	Definition of hydrostatic pressure			
14			09-03-2023		Total pressure and centre of pressure on immersed bodies (Horizontal and Vertical Bodies)			
15		3RD	14-03-2023	8	Solve Simple problems			
16			15-03-2023		Archimedes 'principle, concept of buoyancy, meta center and meta centric height(Definition only)			
17			16-03-2023		Concept of floatation			
18			16-03-2023		Doubt clearing class on 3rd chapter			
19		4TH	21-03-2023	8	Types of fluid flow			
20			22-03-2023		Continuity equation (Statement and proof for one dimensional flow)			
21	23-03-2023							
22	23-03-2023							
23	5TH	28-03-2023						

24	APRIL	29-03-2023	8	Bernoulli's theorem(Statement and proof)					
25		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		18-04-2023	Classifications of notches & weirs						
34		4TH	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	02-05-2023	10	Solve Problems using Darcy's and Chezy's formula				
42			1ST		03-05-2023	Hydraulic gradient and total gradient line			
43					04-05-2023	Doubt clearing class on 6th chapter			
44	2ND		04-05-2023	10	Impact of jet on fixed and moving vertical flat plates				
45			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			

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