LESSON PLAN.

ACADEMY SESSION - SUMMER 2022

4th SEMESTER W.E.F-10/03/2022 Total Period :- 48

Subject:- Fluid Mechanics

Abhoy Mohanta

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SL N O	MON TH	Week	Date	UNIT NO/P ERIO D ALL	Topic to be covered as per Syllabus	Topic actually covered as per Syllabus	Short fall if any/syllab us	remarks
1			11/03/2022		Define fluid			
2		2nd Week	12/03/2022	8	Description of fluid properties like Density, Specific weight, specific gravity, specific & volume			
3		3rd	15/03/2022		solve simple problems			
4		Week	16/03/2022		Definitions and Units of Dynamic viscosity, kinematic viscosity,			
5	Ŧ	4th Week	22/03/2022		surface tension Capillary phenomenon			
6	MARCH		23/03/2022		Doubt clearing class on 1st chapter			
7	Μ		25/03/2022	8	Definitions and units of fluid pressure, pressure intensity and pressure head			
8			26/03/2022		Statement of Pascal's Law			
9		5th	29/03/2022		Concept of atmospheric pressure, gauge pressure, vacuum pressure and absolute pressure			
10		Week	30/03/2022		Pressure measuring instruments Manometers (simple & differential)			
11		1st Week	02/04/2022		Bourdon tube pressure gauge			
12		2nd Week	05/04/2022		(Simple Numerical)			
13			06/04/2022		Solve simple problems on Manometer			
14			08/04/2022		Doubt clearing class on 2nd chapter			
15			09/04/2022	8	Definition of hydrostatic pressure			
16		3rd Week	12/04/2022		Total pressure and centre of pressure on immersed bodies			
17			13/04/2022		(Horizontal and Vertical Bodies)			
18			16/04/2022		Solve Simple problems			
19	APRIL	4th Week	19/04/2022		Archimedes 'principle, concept of buoyancy, meta center and meta centric height(Definition only)			
20			20/04/2022		Concept of floatation			
21			22/04/2022		Doubt clearing class on 3rd chapter			
22			23/04/2022		Types of fluid flow			

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			26/04/2022	8	Continuity equation (Statement and		
22	23				proof for one dimensional flow)		
23							
			27/04/2022		Bernoulli's		
24		5th			theorem(Statement and proof)		
		Week	29/04/2022		Applications and limitations of		
					Bernoulli's theorem (Venturimeter,		
25					pitot tube)		
			30/04/2022		Solve simple		
26		1st Week			problems	,	
			04/05/2022		Doubt clearing class on 4th		
27			0.,00,2022		chapter		
28			06/05/2022		-do-		
			07/05/2022		INTERNAL EXAMINATION		
29		and	07/05/2022	-			
			10/05/2022		Revision Internal Exam		
30			10/05/2022				
			11/05/2022		Define orifice & Flow		
31		2nd	11/05/2022		through orifice		
		Week	12/05/2022	8	Orifices coefficient & the relation		
32			13/05/2022		between the orifice coefficients		
33			14/05/2022		Classifications of notches & weirs		
					Discharge over a rectangular notch or		
34	МАҮ		17/05/2022		weir		
		3rd Week			Discharge over a triangular notch or		
35			18/05/2022		weir		
36			20/05/2022		Simple problems on above		
37			21/05/2022		Doubt clearing class on 5th chapter		
					Definition of pipe		
38		4th Week	24/05/2022				
39			25/05/2022		Loss of energy in pipes		
					Head loss due to friction: Darcy's and		
			27/05/2022	10	Chezy's formula (Expression only)		
40							
					Solve Problems using Darcy's and		
41			28/05/2022		Chezy's formula		
		5th			Hydraulic gradient and total gradient		
42		Week	31/05/2022		line		
43		1	01/06/2022	ĺ	Doubt clearing class on 6th chapter		
		1+			Impact of jet on fixed and moving		
44	5	1st Week	03/06/2022		vertical flat plates		
\vdash					Derivation of work done on series of		
45			04/06/2022	10	vanes		
46		2nd Week	07/06/2022		condition for maximum efficiency		
40			0770072022		Impact of jet on moving curved vanes,		
					illustration using velocity triangles,		
47			08/06/2022		derivation of work, efficiency		
47			10/06/2022		Doubt clearing class on 7th chapter		
40			10/00/2022		boust clearing class of 7th chapter		