School of Engineering, Dhenkanal LESSION PLAN Sension - 2003-24 (3)

Semester:4 TH	Name of the Teaching Faculty: Mihir Kumar Swain
No. Of Days/ Per week Class Allotted: 04	Semester From Date: 16 01/24 to
	No. Of weeks: 15
Class Day	Topic to be taught (Theory)
	Define fluid Description of fluid properties
	like Density, Specific weight, specific gravity, specific volume
2	Solve simple problems.
	Salva simple problems.
	Definitions and Units of Dynamic viscosity,
4	kinematic viscosity,
	Solve simple problems.
	colve simple problems
	surface tension ,Capillary phenomenon
	and a simple problems
	Calkians and units of fluid pressure,
9	Statement of Pascal's Law, Proof, pressure
200	intensity and pressure head,
	Carrent of atmospheric pressure, gauge
10	pressure, vacuum pressure and absolute
	pressure
	Solve simple problems
11	Simple Manometers
12	Solve simple problems
13	Differential Manometers
14	Differential Wallems
15	Solve simple problems Bourdon tube pressure gauge(Simple
	1
200	Numerical) Definition of hydrostatic pressure, force &its
17	Definition of hydrostatic pressure,
17	concept Leastra of pressure on
10	Total pressure and centre of pressure on
18	immersed bodies(Horizontal)
	Total pressure and centre of pressure on
19	immersed bodies (Vertical Bodies)
	Solve Simple problems
20	Solve Simple problems
21	blomc
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23	meta center and meta centric
	No. Of Days/ Per week Class Allotted: 04 Class Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

		height(Definition only)
741	24	Concept of floatation
7th	25	Meaning of Kinematics of Flow , Types of fluid flow
	26	Continuity equation(Statement and proof for one dimensional flow)
	27	4.3 Bernoulli's theorem(Statement and proof)
	28	Applications and limitations of Bernoulli's theorem to (Venturimeter)
Sth	29	Applications and limitations of Bernoulli's theorem to (pitot tube)
	30	Solve simple problems
	31	Solve simple problems
9th	32	Solve simple problems
1 301	33	Define orifice, notches & weirs
	34	Flow through orifice, Orifices coefficient &
	25	the relation between the orifice coefficient
	35	Solve simple problems
10th	36	Classifications of notches & weirs
1200	20.00	Discharge over a rectangular notch or weir
	38	Discharge over a triangular notch or weir
Secretary of the secret	39	Simple problems on above
11th	40	Simple problems on above
TITU	41	Definition of pipe. Loss of energy in pipes.
	42	Simple problems on above
	43	Head loss due to friction: Darcy's and
		Chezy's formula (Expression only)
	44	Simple problems on above
12th	45	Simple problems on above
	46	Simple problems on above
	47	Hydraulic gradient and total gradient line
	48	Simple problems on above
3th	49	Simple problems on above
	50	Simple problems on above
	51	Impact of jet on fixed vertical flat plates
	52	Simple problems on above
4th	53	Impact of jet on moving vertical flat plates
	54	Simple problems on above
	55	Derivation of work done on series of vane
	33	and condition for maximum efficiency
	56	Simple problems on above
		Impact of jet on moving curved vanes
h	57	Simple problems on above
	58	Illustration using velocity triangles,
	59	derivation of work done, efficiency.
	60	Semple problems solved

