Department of Civil Engineering

Subject: Fluid Mechanics **Faculty: Sri CH.V. HANUMANTHA RAO**

Year:II Sem: I **AY:2013-14**

Period	Date	Topic	Unit No	Teaching Methodology	Cumulative Periods
2	11.11.2013	Physical Properties of Fluid	1	Class Room	1
3	11.11.2013	Rayleigh Ritz method	1	Class Room	2
6	18.11.2013	Buckingham's π method	1	Class Room	3
2	18.11.2013	Specific gravity,	1	Class Room	4
2	19.11.2013	Viscosity	1	Class Room	5
3	19.11.2013	Surface tension & vapour pressure	1	Class Room	6
6	20.11.2013	Viscosity, Surface tension & vapour pressure	1	Class Room	7
2	21.11.2013	Influence of vapour pressure on Fluid motion	1	Class Room	8
2	21.11.2013	Pascal's Law & Pressure at a point, Hydrostatic law	1	Class Room	9
3	23.11.2013	Atmospheric, gauge and vacuum pressure	1	Class Room	10
6	25.11.2013	Measurement of Pressure, Pressure gauges	1	Class Room	11
2	25.11.2013	Differential U-tube Manometer	1	Class Room	12
2	30.11.2013	Hydro static forces on submerged plane	2	Class Room	13
3	30.11.2013	Hydrostatic forces on horizontal plane, Hydrostatic forces on vertical plane	2	Class Room	14
6	01.12.2013	Centre of pressure Hydrostatic forces on inclined plane	2	Class Room	15
2	02.12.2013	Derivation and problems	2	Class Room	16
2	02.12.2013	Fluid kinematics: Description of fluid flow	3	Class Room	17
3	03.12.2013	Stream line, path line	3	Class Room	18
6	03.12.2013	Streak line and stream tube	3	Class Room	19
2	09.12.2013	Classification of flowsSteady and unsteady	3	Class Room	20
2	09.12.2013	Laminar, turbulent	3	Class Room	21

3	10.12.2013	Rotational flows	3	Class Room	22
6	12.12.2013	Irrotational flows	3	Class Room	23
2	12.12.2013	Equation of continuity for one-dimension	3	Class Room	24
2	13.12.2013	Equation of continuity for two-dimension	3	Class Room	25
3	15.12.2013	Equation of continuity for three-dimension	3	Class Room	26
6	15.12.2013	Stream function	3	Class Room	27
2	17.12.2013	velocity potential functions	3	Class Room	28
2	17.12.2013	Flow net analysis	3	Class Room	29
3	19.12.2013	Problems	3	Class Room	30
6	19.12.2013	Fluid dynamics: Surface and body forces	4	Class Room	31
2	23.12.2013	Euler's equations for flow along a stream line for 3-D flow	4	Class Room	32
2	23.12.2013	Bernoulli's equations for flow along a stream line for 3-D flow	4	Class Room	33
3	24.12.2013	Naiver-Stokes equations	4	Class Room	34
6	24.12.2013	Momentum equation and applications	4	Class Room	35
2	27.12.2013	Forces on pipe bend	4	Class Room	36
2	18.01.2014	Reynold's experiment	5	Class Room	37
3	18.01.2014	Characteristics of Laminar flows	5	Class Room	38
6	20.01.2014	Characteristics of Turbulent flows	5	Class Room	39
2	20.01.2014	Flow between parallel plates,	5	Class Room	40
2	27.01.2014	Flow through long tubes	5	Class Room	41
3	27.01.2014	Flow through inclined tubes	5	Class Room	42
6	28.01.2014	Closed conduit flow: Laws of Fluid friction, Darcy's equation	5	Class Room	43
2	28.01.2014	Major and Minor losses pipes	6	Class Room	44
2	29.01.2014	Pipes in series	6	Class Room	45
3	29.01.2014	Pipes in parallel	6	Class Room	46
6	01.02.2014	Pipes in parallel	6	Class Room	47
2	01.02.2014	Total energy line and hydraulic gradient line	6	Class Room	48
2	03.02.2014	Pipe network problems	6	Class Room	49

3	0402.2014	Variation of friction factor with Reynold's number	7	Class Room	50
6	03.02.2014	Moody's Chart	7	Class Room	51
2	03.02.2014	Measurement of flow: Pitot tube	7	Class Room	52
2	05.02.2014	Venturimeter and Orifice meter	7	Class Room	53
3	05.02.2014	Classification of Orifices	8	Class Room	54
6	10.02.2014	Flow over rectangularnotch	8	Class Room	55
2	10.02.2014	Flow over triangular notch	8	Class Room	56
2	11.02.2014	Flow over trapezoidal and stepped notches	8	Class Room	57
3	11.02.2014	Flow over Broad crested weirs &Problems	8	Class Room	58

Ch.V. Hanthapao

Signature of faculty

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