

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department: Mechanical Engineering

Academic Session: 2017-18 (Jan-June 2018)

Lesson Plan for the Semester started w.e.f 08.01.2018

Subject with code- Fluid Mechanics (ME-208-F)

Name of Faculty with designation : Ms. Priyanka Singh (Assistant Professor)

S.No.	Month	Date & Day	Sem-Class	Section/Uni t	Topic/Chapter covered	Academic activity	Test / assignment
1	January	08.01.2018 Monday	IV-ME	А	Introduction about self & students and DCE teaching methodology.		Assignment of 02 Ques. given
2	January	09.01.2018 Thursday	IV-ME	А	Concept of fluid flow, Ideal-real fluids, Properties of fluids.		Assignment of 02 Ques. given
3	January	12.01.2018 Friday	IV-ME	А	Pascal's law, Hydrostatic Equation, Hydrostatic Forces for plane surfaces		Assignment of 02 Ques. given
4	January	15.01.2018 Monday	IV-ME	А	Hydrostatic forces for plane surfaces, Hydrostatic equation for curved surfaces		Assignment of 02 Ques. given
5	January	16.01.2018 Thursday	IV-ME	А	Stability of floating and submerged bodies, Relative equilibrium		Assignment of 02 Ques. given
6	January	19.01.2018 Friday	IV-ME	А	Eulerian & Lagrangian description of fluid flow, Stream ,Streak and Path lines		Assignment of 02 Ques. given
7	January	23.01.2018 Tuesday	IV-ME	А	Types of flow, flow rate, Continuity Equation in cylindrical coordinates		Assignment of 02 Ques. given
8	January	29.01.2018 Monday	IV-ME	А	Continuity equation in polar coordinates, Rotation, Vorticity, Circulation, Stream & Potential function, Flow net		Assignment of 02 Ques. given
9	January	30.01.2018 Tuesday	IV-ME	А	Class Test 1		
10	Febrary	2.02.2018 Friday	IV-ME	В	Concept of system, Control volume,Euler's equation		Assignment of 02 Ques. given
11	Febrary	5.02.2018 Monday	IV-ME	В	Bernoulli's equation, Correction factors,		Assignment of 02 Ques. given

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12	Febrary	6.02.2018 Tuesday	IV-ME	В	Momentum-Impulse equation and its application,Orifice		Assignment of 02 Ques. given
13	Febrary	9.02.2018 Friday	IV-ME	В	Mouthpiece, Venturimeter, Orificemeter		Assignment of 02 Ques. given
14	Febrary	19.02.2018 Monday	IV-ME	В	Potential flow- source, sink, uniform flow, Vortex flow, Source-Sink pair ,Doublet Flow past a cylinder with and without circulation		Assignment of 02 Ques. given
15	Febrary	20.02.2018 Tuesday	IV-ME	В	Continuity equation, Propogation of elastic waves due to compression of fluid,		Assignment of 02 Ques. given
16	Febrary	23.02.2018 Friday	IV-ME	В	Propogation of elastic waves due to disturbance in fluid, stagnation Properties, Isentropic		Assignment of 02 Ques. given
17	Febrary	26.03.2018 Monday	IV-ME	В	Class Test 2		
18	Febrary	27.03.2018 Tuesday	IV-ME	С	Viscous flow- laminar and turbulent flow regimes, Reynolds number,		Assignment of 02 Ques. given
19	March	2.03.2018 Friday	IV-ME	С	Relationship between shear stress and pressure gradient		Assignment of 02 Ques. given
20	March	5.03.2018 Monday	IV-ME	С	Unidirectional flow between parallel plates(stationery & having motion)		Assignment of 02 Ques. given
21	March	6.03.2018 Tuesday	IV-ME	С	Movement of piston in a dashpot, Power absorbed in bush, collar, footstep bearing		Assignment of 02 Ques. given
22	March	9.03.2018 Friday	IV-ME	С	Flow through pipes- major losses in pipes, Darcy- Weisbach Eq., Chezy Eq., hydraulic gradient and total energy lines		Assignment of 02 Ques. given
23	March	12.03.2018 Monday	IV-ME	С	Minor losses in pipes, series and parallel connection of pipes branched		Assignment of 02 Ques. given
24	March	13.03.2018 Tuesday	IV-ME	С	Equivalent pipe. Hagen- Poissuelle law, Power transmitted Branched Pipes, Equivalent Pipes		Assignment of 02 Ques. given
25	March	16.04.2018 Friday	IV-ME	С	Power transmission through pipes		Assignment of 02 Ques. given
26	March	26.03.2018 Monday	IV-ME	С	Class Test 3		
27	March	27.03.2018 Tuesday	IV-ME	D	Boundary flow:- concept, displacement, momentum and energy thickness		Assignment of 02 Ques. given

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28	April	2.04.2018 Monday	IV-ME	, D	Laminar and turbulent boundary layer flows, drag on a flat plate, boundary layer separation and control		Assignment of 02 Ques. given
29	April	3.04.2018 Tuesday	IV-ME	D	Streamlined and bluff bodies, lift and drag on a cylindrical and airfoil		Assignment of 02 Ques. given
30	April	6.04.2018 Friday	IV-ME	D	Turbulent Flow- Shear stress in turbulent flow, Prandtl mixing length hypothesis		Assignment of 02 Ques. given
31	April	9.04.2018 Monday	IV-ME	D	Hydraulically smooth and rough pipes, Velocity distribution and friction coefficients		Assignment of 02 Ques. given
32	April	10.04.2018 Tuesday	IV-ME	D	Class test 4		

S.No.	Month	Date & Day	Sem-Class	Section/Uni t	Topic/Chapter covered	Academic activity	Test / assignment
33	April	13.04.2018 Friday	IV-ME		Revision		
34	April	24.04.2018 Tuesday	IV-ME		Revision		