



Lectures of the Department of Civil Engineering

Subject Title:- Fluid Mechanics

Class:-

	Lecture sequences	First lecture	Instructor	Name
	The major content	rs:		
	1- Static fluid			
Lecture	The detailed conte	ents:		
Contents	1- Static fluid			
	2-Static forces on submerged surfaces 3-Pressure at point 4-Basic equation for static fluid 5-Types of pressure			
	6-Pressure measuren	nent		
	7-Fluid properties 9-Fluid definition			
	10-Units and dimens	ions		

	Lecture sequences	Second lecture	Instructor	Name
	The major content 1- Static fluid	S:		
Lecture Contents	The detailed conte 1- Static fluid 2-Static forces on sul 3-Pressure at point 4-Basic equation for 5-Types of pressure 6-Pressure measuren 7-Fluid properties 9-Fluid definition 10-Units and dimens	bmerged surfaces static fluid nent		

	Lecture sequences	Second lecture	Instructor	Name
Lecture Contents	The major content 1- Viscosity The detailed content 1 Viscosity Density Specific volun Specific weigh Bulk modulus Surface tension Newton's law 2-Pressure measurem 3-Fluid properties 4-Fluid definition 5-Units and dimension	ents: ne nt of elasticity n in viscosity nent		

	Lecture sequences	Third lecture	Instructor	Name
Lecture Contents	The major content 1- Viscosity The detailed conte			
	 Viscosity Density Specific volun Specific weigh Bulk modulus Surface tensio Newton's law 2-Pressure measuren 3-Fluid properties 4-Fluid definition 5-Units and dimension 	of elasticity n in viscosity nent		

	Lecture sequences	fourth lecture	Instructor Nam		
Lecture Contents	The major contents: 1- Forces on submerged plain surfaces				
	Forces on subrBuoyancy and	merged plain surfaces merged curved surface flotation omerged and floating			

	Lecture sequences	fifth lecture	Instructor	Name
Lecture Contents	The major content 1- Kinematics of flui	s: id motion/ types of flo	W	
	Mass conservaEnergy conser	fluid motion/ types of ation low/ continuity e vation law/ bernolli's bernolli's equation	quation	

	Lecture sequences	sixth lecture	Instructor	Name
Lecture Contents	The major content 1- Kinematics of flui	id motion/ types of flo	W	
	 Mass conserva Energy conser Application of Analysis of free Application of Analysis of free Computing the 	fluid motion/ types of ation low/ continuity e vation law/ bernolli's bernolli's equation ee liquid jet bernolli's equation	quation equation	lines

	Lecture sequences	seventh lecture	Instructor	Name
	The major content 1- Flow rate measure			
Lecture Contents				
	The detailed conte Flow measurer Flow rate mea Venture meter Orifice meter Nozzle meter	ment surements		