

Department of Mechanical Engineering			
Fluid Mechanics Lab. (67328)			
Total Credits	1		
major compulsory			
Prerequisites	P1 : Fluid Mechanics (67313) OR Fluid Mechaics I (67320) P11Synch. : Fluid Mechaics I (67320) OR Fluid Mechanics (67313)		
Course Contents			
Laboratory applications to the related topics of the theoretical course of fluid mechanics (1).			
Intended Learning Outcomes (ILO's)		Student Outcomes (SO's)	Contribution
1	Ability to conduct experiments and analyze and interpret data related to fluid mechanics as fluid properties, fluid flow, forces, hydrostatic, pipe friction and stability,	B	50 %
2	The ability to use the devices of the lab properly and write scientific report	K	40 %
3	Be able to work in team	D	10 %
Textbook and/ or References			
Laboratory handouts. Bruce R. Munson, Donald F. Young, Theodore H. Okiish , 4th edition, Fundamentals of Fluid Mechanics.			
Assessment Criteria		Percent (%)	
Mid. Term Exam		20 %	
Quizzes		10 %	
Reports		40 %	
Final Exam		30 %	
Course Plan			
Week	Topic		
1	Introduction		
2	Experiment No. 1: Fluid properties		
3	Experiment No. 2: Calibration of a pressure gauge.		
4	Experiment No. 3: Hydrostatic Thrust on A Plan Surface		
5	Experiment No. 4: Stability Of Floating Body		
6	Experiment No. 5: Flow Through Venturi		
7	Experiment No. 6: Flow Through Orifice and Nozzle		
8	Midterm Exam		
8	Experiment No. 7: Impact Of Jet		
9	Experiment No. 8: Pump Performance		
10	Experiment No. 9: Friction Loss Along Pipe		
11	Experiment No. 10: Friction at Pipe Fitting		
12	Experiment No. 11: Vortex flow		
13	Discussion		
14	Final exam		