Isfahan University of Technology (IUT) Department of Civil Engineering HYDRODYNAMICS Term I

HYDRODYNAMICS					Term I		
Instructor Name: Telepho E-mail: Website Lecture Office h	ne: : time:	Mohammad F 391-3831 mchamani@c http://chaman Saturdays, Mo Saturdays Mondays	ec.iut.ac.ir ni.iut.ac.ir	6:00			
Mark Dist	ribution:	Mid-Term I (Mid-Term II) Final Exam Assignments	,			2 4 12 2	
MacGra 3. Vallenti 4. Lamb, H	ting, H., and w-Hill, US ne, H. R. (1 H. (1957), "A	" (١٣٨٨). d Gersten, K. (2 A. 961), "Applied H Hydrodynamics" 4), "Fluid Dynan	<i>Hydrodynamio</i> , Cambridge	cs", Butter University	worth, USA Press, UK	A.	
Fluid M	echanics. J	ung, D.F., and on the one of the	ons, USA.			ıtals of	
Course Ou	ıtline: Top	oic			Time (v	weeks)	
1.	BasiFluiFluiDimPipe	tion, Basics of F ics d statics d dynamics nensional analysis e flow ernal flows	luid Mechan	ics		4	

- The Blasius problem laminar boundary layer on a flat plate
- Different boundary layer thicknesses
- Integral momentum equation
- Approximate solution of the Blasius problem

Prerequisites:

- 1. Fluid Mechanics
- 2. Use of an equation solver package such as Mathematica, MathCad, TK Solver, Excel, etc. is highly recommended.