YILDIZ TECHNICAL UNIVERSITY
MECHANICAL ENGINEERING DEPARTMENT

FLUID MECHANICS

2021-2022 Spring

Instructor : Assoc. Prof. Dr. Özgen AÇIKGÖZ
Contact info : oacikgoz@yildiz.edu.tr
Web site : http://avesis.yildiz.edu.tr/oacikgoz/

Week 1	Chapter 1 Introduction and Basic Concepts
Week 2	Chapter 2 Properties of Fluids
Week 3	Chapter 3 Pressure and Fluid Statics
Week 4	Chapter 3 Pressure and Fluid Statics
Week 5	Chapter 4 Fluid Kinematics
Week 6	Chapter 5 Mass, Bernoulli and Energy Equations
Week 7	Chapter 5 Mass, Bernoulli and Energy Equations
Week 8	Midtem I
Week 9	Chapter 6 Momentum Analysis of Flow Systems
Week 10	Chapter 6 Momentum Analysis of Flow Systems
Week 11	Chapter 8 Flow in Pipes
Week 12	Chapter 8 Flow in Pipes QUIZ
Week 13	Chapter 11 Flow Over Bodies : Drag and Lift
Week 14	Chapter 11 Flow Over Bodies : Drag and Lift
	Final Exam

Textbook:	**Fluid Mechanics: Fundamentals and Applications**, Yunus A. Çengel and John M. Cimbala, McGraw Hill
Additional References	**Fox and McDonald's Introduction to Fluid Mechanics,** Philip J. Pritchard, John C. Leylegian, John Wiley & Sons, Inc. Turkish version translation editor: Prof. Dr. Ali Pınarbaşı **Fluid Mechanics,** Frank M. White, McGraw Hill **Fluid Mechanics,** Pijush K. Kundu and Ira M. Cohen, Academic Press
Grading:	40% Midterm I 20% Quiz (at 12th weeks and will be started at last hours of the course day.) 40% Final Exam
Notes:	• Textbook is required. The course is designed around the textbook. • No make-up exams will be given regardless of excuse. • All exams and the final will be open-book. No other reference material will be allowed except a dictionary. • Most quiz questions will come (possibly with some modifications) from the end-of-chapter problems of the textbook. Students are encouraged to solve as many of those problems as possible.