

Course	<i>Name</i>	Fluid Mechanics					
	<i>Code</i>	AKM-204E			<i>Type</i>	Mandatory	
	<i>Credit</i>	3			<i>Hours</i>	3+0	
	CRN	Class	Time	Faculty	Office	Tel.	E-Mail
	22731	A105	Monday 09.30-12.30	Abdüsselam Altunkaynak	Hid. Lab.222	2856846	altunkay@itu.edu.tr
	CRN	Class	Time	Teaching asst.	Office	Tel.	E-Mail
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<i>Course Book</i>	<i>English</i>	D.F. Young, B. R. Munson, T. H. Okiishi, W. W. Huebsch, Introduction to Fluid Mechanics, SI Version, 5th Edition, November 2011, Wiley					
	<i>Turkish</i>	Hidrolik, B. Mutlu Sümer, İstemi Ünsal, Mehmetçik Beyazıt, Birsen Yayınevi					
<i>Recommended Books</i>		<ol style="list-style-type: none"> Robert W. Fox, Alan T. McDonald, Philip J. Pritchard, Fluid Mechanics, International Student Version, 8th Edition, October 2011, Wiley. Clayton T. Crowe, Engineering Fluid Mechanics, International Student Version, 9th Edition, Wiley. 					

COURSE PLAN

In-term Evaluation Criteria			Final Evaluation Criteria	
Faaliyet / Item	Number	Contribution to in-term	In-term Grade	Final Grade
Quizzes	4	% 40	%50	%50
Midterms	2	% 60		
Requirement for Final Exam:	Compulsory attendance to pass the course: 70%			
	Minimum total score for in-term activities must be 40			

Week	Date	Topics to be Covered
1	09.Feb.2026	Unit Systems, Dimensional Homogeneity, Physical Properties of Fluids
2	16.Feb.2026	Behaviour of Fluids under Stresses
3	23.Feb.2026	Hydrostatics, Pressure Concept
4	02.March.2026	Calculation of Pressure Forces
5	09.March.2026	Basic Equations of Fluid Statics, Relative Equilibrium
6	16.March.2026	SPRING BREAK
7	23.March.2026	Midterm Exam 1
8	30.March.2026	Kinematics of Fluids
	06.April.2026	Basic Equations of One-Dimensional Flow
9	13.April.2026	One-Dimensional Flow of Ideal Fluids
10	20.April.2026	One-Dimensional Flow of Ideal Fluids: Applications
11	27.April.2026	One-Dimensional Flow of Real Fluids, Laminar and Turbulent Flow
12	04.May.2026	Two-Dimensional Flow of Ideal Fluids
13	11.May.2026	Midterm Exam 2
14	18.May.2026	Velocity Potential Flows and Boundary Layer and Separation Concepts