

Ankara Üniversitesi
Kütüphane ve Dokümantasyon Daire Başkanlığı
Açık Ders Malzemeleri

Ders izlence Formu

Dersin Kodu ve İsmi	FDE 205 FLUID MECHANICS
Dersin Sorumlusu	Prof. Dr. Ferruh ERDOĞDU / Doç. Dr. Aslı İŞÇİ YAKAN
Dersin Düzeyi	Lisans
Dersin Kredisi	3
Dersin Türü	Zorunlu
Dersin İçeriği	Introduction to unit operations of food engineering and momentum transfer. General concepts of fluid flow. Newtonian and non-Newtonian fluids. Macroscopic mass, momentum and energy balances. Friction factors, flow around submerged objects. Flow metering. Dimensional analysis.
Dersin Amacı	<ul style="list-style-type: none">Apply basic knowledge of mathematics and science to momentum transferTake new information and effectively integrate with previous knowledgeState ideas clearlyLearn from others experienceApply theoretical knowledge to industrial challenges related fluid flowUnderstanding of professional and ethical responsibilityImprove self learning skillsImprove skills in applying knowledge for solving fluid flow problems
Dersin Süresi	1 yarıyıl (haftada 3 saat)
Eğitim Dili	İngilizce
Ön Koşul	Yok
Önerilen Kaynaklar	<p>Geankoplis, C.J. "Transport Processes and Separation Process Principles -Includes Unit Operations. 4th Edition" Pearson Education, Inc. 2003.</p> <p>Bird, R.B., Stewart, W.E. and Lightfoot, E.N. "Transport Phenomena. 2nd Edition". John Wiley and Sons, Inc. 2002.</p> <p>Cengel, Y. and Cimbala, J. "Fluid Mechanics Fundamentals and Applications. 3rd Edition". McGraw Hill, 2013.</p> <p>Munson, R.M., Rothmayer, A.P., Okiishi, T.H. and Huebsch, W.W. "Fundamentals of Fluid Mechanics. 7th Edition". John Wiley and Sons, Inc. 2012.</p>
Dersin Kredisi	3
Laboratuvar	Yok
Diğer-1	-