

**Ankara Üniversitesi**  
**Kütüphane ve Dokümantasyon Daire Başkanlığı**  
**Açık Ders Malzemeleri**

**Ders izlence Formu**

<b>Dersin Kodu ve İsmi</b>	<b>CEN212 FLUID MECHANICS</b>
<b>Dersin Sorumlusu</b>	Doç.Dr. Hakan KAYI, Doç.Dr. Ayşe Karakeçili
<b>Dersin Düzeyi</b>	Lisans
<b>Dersin Kredisi</b>	4
<b>Dersin Türü</b>	Zorunlu
<b>Dersin İçeriği</b>	Introduction, Properties of fluids, Dimensional analysis, Fluid statics, Fluid flow phenomena , Basic equations of fluid flow, Flow similarity, Laminar flow, Momentum balances, Boundary layers, Mechanical Energy equation, Friction, Pumps, Flow past immersed bodies, Packed beds, Metering of fluids, Agitation and mixing of liquids
<b>Dersin Amacı</b>	Fluids, fluids behaviour at different fluid regimes, velocity profiles using momentum shell balance, calculation of friction losses and pump power using energy balances
<b>Dersin Süresi</b>	4 saat
<b>Eğitim Dili</b>	İngilizce
<b>Ön Koşul</b>	Yok
<b>Önerilen Kaynaklar</b>	1. Geankoplis C.J., Transport Processes and Unit Operation, 4th Edition, PTR Prentice Hall, 2003. 2. McCabe, W.L., Smith, J.C., Harriott, P., Unit Operations of Chemical Engineering, 7th Edition, McGraw Hill, 2005. 3. Fox, R. W., A. T. McDonald, and P.J. Pritchard, Introduction to Fluid Mechanics, John Wiley & Sons, 6th Edition, 2003. 4. Munson, B.R., Young, D.F., Okiishi, T.H., Fundamentals of Fluid Mechanics, 2nd Edition, 1994. 5. Perry,R.H., Green,D., Perry's Chemical Engineers' Handbook, 7th ed., McGraw Hill, 1997.
<b>Dersin Kredisi (AKTS)</b>	5 AKTS
<b>Laboratuvar</b>	-
<b>Diğer-1</b>	-