

Ankara Üniversitesi
Kütüphane ve Dokümantasyon Daire Başkanlığı
Açık Ders Malzemeleri

Ders izleme Formu / Syllabus

Dersin Kodu ve İsmi <i>Course Title and Code</i>	CEN 416 Process Design II
Dersin Sorumlusu <i>Course Coordinator</i>	Assoc. Prof. Dr. Hakan KAYI, Assoc. Prof. Dr. H. Emir Şimşek
Dersin Düzeyi <i>Course Level</i>	Undergraduate
Dersin Kredisi <i>Course Credits</i>	4
Dersin Türü <i>Course Type</i>	Compulsory
Dersin İçeriği <i>Course Content</i>	Reactor design, plug flow reactors, distillation column design, selectivity, multi-component distillation, shortcut methods, exact solution methods, hydraulic design, absorption column design, plate (stage) and packed columns, multi-component absorption, design project: design of process units for a specific product.
Dersin Amacı <i>Course Goals</i>	Learning the alternative design strategies of the units in the process for the production of the targeted product using the knowledge of thermodynamics, chemical reaction engineering, fluid mechanics, mass transfer and heat transfer.
Dersin Süresi <i>Office Day-Hours</i>	4 hours
Eğitim Dili <i>Language of Instruction</i>	English
Ön Koşul <i>Prerequisites</i>	CEN3306, CEN314
Önerilen Kaynaklar <i>Recommended Sources</i>	1. Sinnott R.K., Towler G.K., 2020. Chemical Engineering Design, 6 th Ed., Butterworth-Heinemann, Oxford. 2. Peters M.S., Timmerhaus K.D., West R.E., 2013. Plant Design and Economics for Chemical Engineers, 5 th Ed., McGraw-Hill, New York 3. Turton R., Shaeiwitz J.A., Bhattacharyya D., Whiting W.B., 2018. Analysis, Synthesis and Design of Chemical Processes, 5 th Ed., Prentice Hall, New Jersey 4. Green D., Southard M.Z., 2018. Perry's Chemical Engineers' Handbook, 9 th Ed., McGraw-Hill, New York.
Dersin Kredisi (AKTS) <i>ECTS</i>	6
Laboratuvar <i>Laboratory</i>	-
Diğer-1 <i>Others</i>	-