**Ankara Üniversitesi
Kütüphane ve Dokümantasyon Daire Başkanlığı**

**Açık Ders Malzemeleri**

Ders izlence Formu / Syllabus

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| Dersin Kodu ve İsmiCourse Title and Code | **ENE 305/335 Heat and Mass Transfer** |
| Dersin SorumlusuCourse Coordinator | Dr. Öğr. Üyesi Işık Semerci |
| Dersin Düzeyi Course Level | Undergraduate |
| Dersin KredisiCourse Credits | 3 |
| Dersin Türü Course Type | Theoretical |
| Dersin İçeriğiCourse Content | • Understand the basic laws of heat transfer • Analyze one-dimensional, steady-state conduction with/without internal generation of thermalenergy• Analyze heat transfer from extended surfaces• Understand transient/unsteady heat transfer problems• Differentiate between internal and external convective heat transfer problems• Analyze and perform the thermal design of heat exchangers• Understand the specific nature of the radiation, and the manner in which it interacts with matter• Analyze mass transfer via diffusion• Understand the analogy between heat and mass transfer |
| Dersin Amacı Course Goals | The objective is to teach the basic principles of heat and mass transfer with emphasis on their analysis and applications to a wide variety of practical engineering problems |
| Dersin Süresi Office Day-Hours | 4 |
| Eğitim Dili Language of Instruction | English |
| Ön Koşul Prerequisites | Not applicable |
| Önerilen Kaynaklar Recommended Sources | Incropera’s Principles of Heat and Mass Transfer |
| Dersin Kredisi (AKTS)ECTS | 6 |
| LaboratuvarLaboratory | ENE 310 Energy Engineering Laboratory-1 |
| Diğer-1 Others |  |