**Ankara Üniversitesi  
Kütüphane ve Dokümantasyon Daire Başkanlığı**

**Açık Ders Malzemeleri**

Ders izlence Formu / Syllabus

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| Dersin Kodu ve İsmi  Course Title and Code | **ENE 305/335 Heat and Mass Transfer** |
| Dersin Sorumlusu  Course Coordinator | Dr. Öğr. Üyesi Işık Semerci |
| Dersin Düzeyi  Course Level | Undergraduate |
| Dersin Kredisi  Course Credits | 3 |
| Dersin Türü  Course Type | Theoretical |
| Dersin İçeriği  Course Content | • Understand the basic laws of heat transfer  • Analyze one-dimensional, steady-state conduction with/without internal generation of thermal  energy  • 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 |
| Laboratuvar  Laboratory | ENE 310 Energy Engineering Laboratory-1 |
| Diğer-1  Others |  |