**Ankara Üniversitesi
Kütüphane ve Dokümantasyon Daire Başkanlığı**

**Açık Ders Malzemeleri**

Ders izlence Formu

|  |  |
| --- | --- |
| Dersin Kodu ve İsmi | **COM275 Digital Logic Design** |
| Dersin Sorumlusu | Öğr. Gör. Dr. Kurtuluş KÜLLÜ |
| Dersin Düzeyi | Lisans |
| Dersin Kredisi | 4 |
| Dersin Türü | Zorunlu |
| Dersin İçeriği | Introduction to Digital Systems, Number systems and Binary Numbers, Boolean Algebra and Logic Gates, Gate-Level Minimization: The map method, NAND and NOR Implementations, Two-level implementations, XOR function, Combinational Logic: Comb. Functions, Adders, Subtractors, Multipliers, Decoders, Encoders, Multiplexers, Synchronous Sequential Logic: Latches, Flip-Flops, Clocked Sequential Circuits, Registers and Counters, Memory and Programmable Logic, Design at the Register Transfer Level, Hardware Description Languages – VHDL |
| Dersin Amacı | Students will gain the ability to design, analyse, and test the digital circuits using both laboratory equipments and computer programs. They will learn the combinational and sequential logic design components and learn how to design these circuits. |
| Dersin Süresi | 14/15 hafta ve 3+2 saat/hafta |
| Eğitim Dili | İngilizce |
| Ön Koşul | Yok |
| Önerilen Kaynaklar | Digital Design, 4/E, M. Morris Mano and Michael D. Ciletti, Prentice Hall, 2007.Digital Design: Principles and Practices Package, 4/E, John F. Wakerly, Prentice Hall, 2006. |
| Dersin Kredisi (AKTS) | 6 |
| Laboratuvar | Var (2 saat/hafta) |
| Diğer-1 | --- |