Ankara Üniversitesi
Kütüphane ve Dokümantasyon Daire Başkanlığı
Açık Ders Malzemeleri

Ders izlence Formu

Dersin Kodu ve İsmi	**EEE328 Digital Signal Processing**
Dersin Sorumlusu	Prof. Dr. Hakkı Gökhan İLK Doç. Dr. Hakkı Alparslan ILGIN
Dersin Düzeyi	Undergraduate
Dersin Kredisi	3
Dersin Türü	Theoretical
Dersin İçeriği	Analysis of discrete time signals an systems, examination of sampling and quantization, investigation of z-transform and analysis of system properties (such as stability, causality) in the z-domain, Discrete-Time, Discrete Fourier Transform and Fast Fourier Transform (DTFT, DFT and FFT), Design and implementation of finite and infinite impulse response filters (FIR, IIR)
Dersin Amacı	The objective of the course is to teach students discrete time signal and systems. A bridge between continuous and discrete time signals is also established by the sampling theorem, s and z domain presentations and FIR and IIR filter designs. Finally discrete Fourier transform is taught for spectral analysis objectives.
Dersin Süresi	3 hours/week
Eğitim Dili	English
Ön Koşul	-
Önerilen Kaynaklar	Signals & Systems, Second Edition, A. V. Oppenheim, A. S. Willsky with S. H. Nawab, Prentice Hall, 1997 Discrete-Time Signal Processing, Second Edition, A. V. Oppenheim, R. W. Schafer with J. R. Buck, Prentice Hall, 1999 Uygulamalı Sinyal İşleme, Prof. Dr. Hakkı Gökhan İLK, Dr. Onur JANE, Ankara 2016.
Dersin Kredisi (AKTS)	5
Laboratuvar	-
Diğer-1	-