

Ankara Üniversitesi
Kütüphane ve Dokümantasyon Daire Başkanlığı
Açık Ders Malzemeleri

Ders izlence Formu

Dersin Kodu ve İsmi	ELE427 Communication Theory II
Dersin Sorumlusu	Doç.Dr. Murat Hüsni SAZLI
Dersin Düzeyi	Lisans
Dersin Kredisi	Ulusal: 3, AKTS: 4
Dersin Türü	Zorunlu
Dersin İçeriği	Entropy, discrete memoryless source, Shannon-Fano and Huffman coding, channel capacity, error rate, regenerative repeaters, quantization noise, decoding noise, delta modulation, differential pulse code modulation, linear predictive coding, error detection and correction, Hamming distance, ARQ and FEC strategies, linear block codes, cyclic codes, syndrome decoding, convolutional decoding, Viterbi decoding algorithm, turbo coding and decoding.
Dersin Amacı	The objective of the course Communication Theory II is to help the student to get telecommunications engineering formation. In this line, it is taught first the basics about information theory which is essential to understand modern coding methods. The effects of noise on communication systems are investigated next. Predictive coding methods which are used frequently in today's communication systems for high efficiency in transmission bandwidth are studied in detail. Error control methods are presented since they are widely used in modern communication systems
Dersin Süresi	1 semester (3 hours per week)
Eğitim Dili	English
Ön Koşul	ELE322 Communication Theory I
Önerilen Kaynaklar	<ul style="list-style-type: none">- Communication Systems, An Introduction to Signal and Noise in Electrical Communication, 5th edition, A.B. Carlson, P.B. Crilly, J.C. Rutledge, Mc Graw Hill.- An Introduction to Analog and Digital Communications, 2nd edition, S. Haykin, M. Moher, Wiley.
Dersin Kredisi	3
Laboratuvar	None
Diğer-1	