ECE4602 Course Syllabus

ECE4602

Communication Systems Laboratory (0-3-1)

Prerequisites

ECE 4601

Corequisites

None

Catalog Description

To examine the performance of analog and digital telecommunications systems and components.

Textbook(s)

No Textbook Specified.

Topical Outline

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Telecommunications Signals
Spectral Analysis of Periodic and Random Signals
Statistical Properties of Random Signals
Eye Patterns
Pseudo-Noise Sequences
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Analog Modulation Conventional AM Double Side Band Suppressed Carrier Single Side Band Suppressed Carrier Frequency Modulation

Analog Demodulation
Synchronous Demodulator
Envelope Demodulator
Frequency Discriminator
Pha se Locked Loop

Computer Simulation of Telecommunication Systens Binary Phase Shift Key Quadrature Phase Shift Key Offset Quadrature Phase Shift Key Multipath-fading Probability of Error vs. SNR

Digital Telecommunications Spectra of Binary FSK Bell 103 Type Modem SNR Measurement BER Measurement Coding Convolutional Coding Viterbi Decoding