EL 310 - Signals and Systems

3 Credit Hours
This course offers an in-depth introduction to linear time-invariant (LTI) systems, mathematical models of signals, and time-domain analysis (convolution). It also covers significant frequency-domain system analysis mathematical tools, including Fourier and Laplace transformations. This course introduces mathematical methods such as the Z-transform and discrete-time Fourier transform (DTFT) and the discrete version of the convolution theorem.

Prerequisites

EL 215