

Faculty of Engineering & Technology**Digital Signal Processing****Information :****Course Code :** EED332**Level :** Undergraduate**Course Hours :** 3.00- Hours**Department :** Communication and Computer Engineering**Instructor Information :**

Title	Name	Office hours
Associate Professor	Waleed Eid Abd Elrahman Alhanafy	1
Teaching Assistant	Shorouk Mohamed khaleel Mohamed	

Description :

Sampling and Reconstruction of continuous time signals. Discrete time convolution, Z transforms: Analysis, Properties, and System stability. The Discrete Fourier transform: Analysis, Properties, Circular convolution, and Overlap-Add and Overlap-Save Filtering. The Fast Fourier transform. Multi-rate signal processing (decimation and interpolation). Infinite Impulse Response and Finite Impulse Response digital filters design.