

Faculty of Engineering & Technology

Communication 1

Information :

Course Code : COM 411

Level : Undergraduate

Course Hours : 3.00- Hours

Department : Specialization of Electronics & Communication

Instructor Information :

Title	Name	Office hours
Associate Professor	KAMEL MOHAMED MAHMOUD HASSAN	4
Associate Professor	Heba Mohamed Abdelatty Ahmed	2
Teaching Assistant	Mahmoud Ahmed Nasr Kamal Abdo Mostafa	2
Teaching Assistant	Mahmoud Ahmed Nasr Kamal Abdo Mostafa	2

Description :

History of communication, Communication systems: block diagram, transmission media, frequency bands, fundamental limits, Shannon, s equation, linear and nonlinear distortion, noise (internal and external noise sources).energy and power spectral densities.

Amplitude modulation (conventional AM, SSB, DSB and VSB) and demodulation, Angle modulation and demodulation (PM and FM), Automatic gain control, Automatic frequency control, FDM Systems, Broadcast transmitters and receivers (AM SSB and FM) and circuits (Detectors, Mixers, Automatic gain control, Automatic frequency control, Phase-locked-loop, Applications of class C RF power amplifiers: limiters, harmonic generators and amplitude modulators ,FM stereo broadcast transmitters and receivers