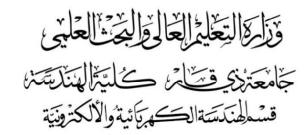
Ministry of Higher Education and Scinetific Research Thi-Qar University Collage of Engineering Electrical and Electronic Engineering Dept





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التاريخ: / / ٢٠

Course number and name	EE 4400: Digital Communication Systems
Credits and contact hours	3 credits and 3 hours
Course coordinator	
	Bernard Sklar, Digital Communications, Fundamentals and
Textbook	Applications, Prentice Hall PTR, Second Edition
	Or John G. Proakis and Masoud Salehi, "Digital
	Communications, McGraw Hill, Fifth Edition, 2008
	Matlab & Simulink, Mathworks, 2010
Course Information	a. Prerequisites: EE 3400 Communication Systems
	b. Selected Elective
	-Analog vs digital communication systems, Signals and
	Spectra, Digital Communication Signal Processing,
	Classification of Signals, Spectral Density, Autocorrelation,
	Random Signals, Signal Transmission through Linear
1000	Systems, bandwidth of Digital Data, Formatting and Baseband
	Modulation (ASK, FSK, PSK, DPSK, QPSK, QAM, OFDM,
	and MSK), Baseband Systems, Formatting Textual Data
	(Character Coding), Messages, Characters, and Symbols,
Topics to be covered	Formatting Analog Information, Sources of Corruption, Pulse
	Code Modulation, Uniform and Nonuniform Quantization
	-Baseband Modulation and Demodulation/Detection, Why
ية والألكة ونية	Modulate, Digital Bandpass Modulation Techniques,
	Detection of Signals in Gaussian Noise, Coherent Detection,
	Noncoherent Detection, Complex Envelope, Error
	Performance for Binary Systems, M-ary Signaling and
	Performance, Symbol Error Performance for M-ary Systems
	(M>>,(2 Intersymbol Interference, Equalization