بسم الله الرحمن الرحيم

Republic of Iraq

The Ministry Of Higher Education

& Scientific Research

University: Diyala

College: Engineering

Department: Computer

Stage: ٣rd year

Lecturer name: A.Lect H.S.RADHI

Qualification: MSC

Place of work: Computer Dept.

Course Instructor	Asst.Lect Hussein Sultan Radhi				
E-mail	Hussein٥٧٢٠٠٢@yahoo.com				
Title	Communication				
Course Coordinator	Asst.Lect Hussein Sultan Radhi				
Course Objective	To teach students the concepts communication fundamentals & systems (Analog & Digital)				
Course Description	Students will learn the basics of communication systems, signals ,types of modulations(AM,FM,PM &Digital Modulations), circuits in transmitters & Receivers.				
Textbook	١. Rodger E. Ziemer / William H. Tranter: Principles of Communications, Modulation and noise, ٢٠٠٢ ٢. Lathi: signal Processing and Linear Systems, ١٩٩٨. ٣. Ferrel stremler: Introduction to communication Systems, ١٩٨٢				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As(٤٠%)	As(١٠%)	As(٠٪)	-	As(٥٠٪)
General Notes					

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Course Weekly Outline

Week	Date	Topes Covered	Lab. Experiment Assignments	Notes
١	٢٣/٠٩/٢٠١٤	Deterministic and random signals		
٢	٣٠/٠٩/٢٠١٤	Periodic and Aperiodic signals		
٣	٠٧/١٠/٢٠١٤	Some important functions		
٤	١٤/١٠/٢٠١٤	Power and energy signals		
٥	٢١/١٠/٢٠١٤	Fourier series		
٦	٢٨/١٠/٢٠١٤	Parseval's theorem		
٧	٠٤/١١/٢٠١٤	Fourier Transform		
٨	١١/١١/٢٠١٤	Power spectral density and correlation		
٩	١٨/١١/٢٠١٤	Amplitude Modulation(AM)		
١٠	٢٥/١١/٢٠١٤	The AM spectra & Power consideration		
١١	٠٢/١٢/٢٠١٤	AM modulators		
١٢	٠٩/١٢/٢٠١٤	Demodulation of AM signals		
١٣	١٦/١٢/٢٠١٤	Frequency Modulation (FM)		
١٤	٢٣/١٢/٢٠١٤	FM spectra &Power consideration		
١٥	٣٠/١٢/٢٠١٤	NBFM and bandwidth estimation		
١٦	٠٦/٠١/٢٠١٥	End Term Exam		
Half – year break				
١٧	١٧/٠٢/٢٠١٥	Generation of wide-band FM signals		
١٨	٢٤/٠٢/٢٠١٥	Demodulation of FM signals		
١٩	٠٣/٠٣/٢٠١٥	Pulse Modulation &Sampling Theory		
٢٠	١٠/٠٣/٢٠١٥	Pulse Amplitude Modulation (PAM)		
٢١	١٧/٠٣/٢٠١٥	Pulse Width Modulation (PWM)		
٢٢	٢٤/٠٣/٢٠١٥	Pulse Position Modulation (PPM)		
٢٣	٣١/٠٣/٢٠١٥	Delta Modulation (DM)		
٢٤	٠٧/٠٤/٢٠١٥	Pulse Code Modulation (PCM)		
٢٥	١٤/٠٤/٢٠١٥	Time Division Multiplexing (TDM)		
٢٦	٢١/٠٤/٢٠١٥	Frequency Division Multiplexing (FDM)		
٢٧	٢٨/٠٤/٢٠١٥	Digital Modulation		
٢٨	٠٥/٠٥/٢٠١٥	Amplitude shift keying (ASK)		
٢٩	١٢/٠٥/٢٠١٥	Frequency shift keying (FSK)		
٣٠	١٩/٠٥/٢٠١٥	Phase shift keying (PSK)		
٣١	٢٦/٠٥/٢٠١٥	Seminar		
٣٢	٠٢/٠٦/٢٠١٥	End Term Exam		

INSTRUCTOR Signature: **Dean Signature:**