

朝陽科技大學 093學年度第2學期教學大綱
Digital Communications 數位通訊

當期課號	7260	Course Number	7260
授課教師	黃惠俞	Instructor	HUANG,HUIYU
中文課名	數位通訊	Course Name	Digital Communications
開課單位	資訊工程系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程將探討訊號與頻譜、格式化與基帶調變、帶通調變與解調、通訊連結分析、通道編碼及其應用。	Objectives	We will study the signal and spectra、formatting and baseband、bandpass modulation and demodulation、communication link analysis、channel coding and their applications.
教材	未定	Teaching Materials	
成績評量方式	1. Class attendance: 5% 2. Homework: 25% 3. Midterm: 30% 4. Final project and report: 40%	Grading	1. Class attendance: 5% 2. Homework: 25% 3. Midterm: 30% 4. Final project and report: 40%
教師網頁	-		
教學內容	I. DIGITAL COMMUNICATIONS PRINCIPLES 1. SIGNALS AND SYSTEMS THEORY 2. Random Signals and Noise 3. Sampling, Multiplexing, and PCM 4. Bandbased Transmission and Line Coding 5. Spread-spectrum communications 6. Error Control Coding 7. Bandpass Modulation of a Carrier Signal II. Multimedia communications 1. Computer and multimedia networks 2. Multimedia network communications and applications 3. Wireless networks 4. Video Transmission and Storage	Syllabus	I. DIGITAL COMMUNICATIONS PRINCIPLES 1. SIGNALS AND SYSTEMS THEORY 2. Random Signals and Noise 3. Sampling, Multiplexing, and PCM 4. Bandbased Transmission and Line Coding 5. Spread-spectrum communications 6. Error Control Coding 7. Bandpass Modulation of a Carrier Signal II. Multimedia communication 1. Computer and multimedia networks 2. Multimedia network communications and applications 3. Wireless networks 4. Video Transmission and Storage

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