

朝陽科技大學 099學年度第1學期教學大綱
Simulation Experiments of Digital Communications 數位通訊模擬實作

當期課號	2594	Course Number	2594
授課教師	梁新穎	Instructor	LIANG,HSIN YING
中文課名	數位通訊模擬實作	Course Name	Simulation Experiments of Digital Communications
開課單位	資訊與通訊系(四日)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程主要提供學生們學習數位通訊模擬實習的相關知識，其中課程主題大致如下：PCM資訊源解碼、線碼波形及頻譜、基頻訊號之模擬與分析、ASK, PSK, FSK帶通訊號之模擬與分析、QAM帶通訊號之模擬與分析、ISI通道之模擬、多路徑衰減通道之模擬、方塊通道編解碼系統之模擬、正交分頻調變系統模擬	Objectives	"This course provides the knowledge of Simulation Experiments of Digital Communications. The topics of this course are described as follows. Pulse-Code Modulation (PCM) Signals, Line Codes, Baseband Signals, Baseband Signals with ASK/PSK/FSK modulation, M-QAM Band-Pass Signals, ISI Channels, Fading Multipath Channels, Channel Encoding/Decoding, OFDM Systems."
教材	請至 LMS 系統	Teaching Materials	http://lms.ctl.cyut.edu.tw/index.php
成績評量方式	1.期中考(30%) 2.期末考(30%) 3.小考(20%) 4.作業(10%) 5.出席率(10%)	Grading	1. Midterm Exam (30%) 2. Final Exam (30%) 3. Quiz (20%) 4. Homework (10%) 5. Attendance (10%)
教師網頁	http://www.cyut.edu.tw/~hyliang/		
教學內容	本課程主要提供學生們學習數位通訊模擬實習的相關知識，其中課程主題大致如下：PCM資訊源解碼、線碼波形及頻譜、基頻訊號之模擬與分析、ASK, PSK, FSK帶通訊號之模擬與分析、QAM帶通訊號之模擬與分析、ISI通道之模擬、多路徑衰減通道之模擬、方塊通道編解碼系統之模擬、正交分頻調變系統模擬	Syllabus	"This course provides the knowledge of Simulation Experiments of Digital Communications. The topics of this course are described as follows. Pulse-Code Modulation (PCM) Signals, Line Codes, Baseband Signals, Baseband Signals with ASK/PSK/FSK modulation, M-QAM Band-Pass Signals, ISI Channels, Fading Multipath Channels, Channel Encoding/Decoding, OFDM Systems."

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