

朝陽科技大學 097學年度第1學期教學大綱
Digital Communications 數位通訊

當期課號	7469	Course Number	7469
授課教師	林仁勇	Instructor	Lin, Jen Yung
中文課名	數位通訊	Course Name	Digital Communications
開課單位	資訊與通訊系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程提供了大致上的概念關於通訊理論以及這個領域的基礎觀念。在復習過訊號與系統的表示之後，分析不同的連續與數位調變機制。並且提到展頻系統與它的應用到多使用者通訊上。高等通訊系統的敘述以及有線及區域網路的一般概念介紹。	Objectives	Tentative topics covered in this course include digital image fundamentals, mathematical preliminaries of two-dimensional systems, image transforms, human perception, color basics, sampling and quantization, compression techniques, image enhancement, image restoration, image reconstruction from projections, and binary image processing.
教材	1.Digital Communications, by B. Sklar, Printice Hall, 2002. 2.Introduction to Digital Communications, by Michael B. Pursley, Printice Hall, 2005.	Teaching Materials	1.Digital Communications, by B. Sklar, Printice Hall, 2002. 2.Introduction to Digital Communications, by Michael B. Pursley, Printice Hall, 2005.
成績評量方式	Midterm 30% Final 30% Homeworks & Project 40%	Grading	Midterm 30% Final 30% Homeworks & Project 40%
教師網頁	http://www.csie.dyu.edu.tw/~jyin		
教學內容	This course provides a general overview of communication theory and addresses fundamental concepts in this field. After a review of signals and systems representations, various continuous and digital modulation schemes are analyzed. Spread spectrum systems and their application to multiuser communications are also addressed. Advanced communication systems are described and general concepts of wide and local area networks are introduced.	Syllabus	This course provides a general overview of communication theory and addresses fundamental concepts in this field. After a review of signals and systems representations, various continuous and digital modulation schemes are analyzed. Spread spectrum systems and their application to multiuser communications are also addressed. Advanced communication systems are described and general concepts of wide and local area networks are introduced.

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