

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

當期課號	2736	Course Number	2736
授課教師	陳興忠	Instructor	CHEN,HSING CHUNG
中文課名	數位通訊原理	Course Name	Introduction to Digital Communications
開課單位	資訊工程系(四日)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程主要講述數位通訊的基本原理。課程內容包括-數位通訊專有名詞及數位通訊的基本原理。學生在完成本課程後，將可了解以下之數位通訊基本原理：1. 帶通數位傳輸、2. 展頻調變、3. 多使用者輻射通訊、4. 消息理論、5. 改錯碼。	Objectives	The goal of this course is to provide the students with a basic knowledge of digital communications. The main topics include terminology of digital communications and the concept of digital communication basics. The students will realize the following digital communication basics after finishing this course: 1. the functions and operation of passband digital transmission, 2. the spread-spectrum modulation, 3. the multiuser radio communications, 4. the fundamental limits in information theory, and 5. error-control coding.
教材	1.Wayne Tomasi, Advanced electronic communications/fifth edition, Prentice Hall Step. 1997. 2.Bernard Sklar, Digital Communications - Fundamentals and Applications, Prentice-Hall, 2nd Ed. 2001. 3. R. E Ziemer and R. L. Peterson, Introduction to Digital Communication, Prentice-Hall, 2nd Ed. 2001.	Teaching Materials	1.Wayne Tomasi, Advanced electronic communications/fifth edition, Prentice Hall Step. 1997. 2.Bernard Sklar, Digital Communications - Fundamentals and Applications, Prentice-Hall, 2nd Ed. 2001. 3. R. E Ziemer and R. L. Peterson, Introduction to Digital Communication, Prentice-Hall, 2nd Ed. 2001.
成績評量方式	平時成績：20% 期中考：30% 期末考：30% 出席：20%	Grading	Homework: 20% Mid-term Exam: 30% Final Exam: 30% Participation: 20%
教師網頁	-		
教學內容	The course is intended to provide a comprehensive coverage of digital communication systems for senior undergraduates and first year graduate students. 1. Introduction 2. Digital Modulation 3. Spread-Spectrum Systems 4. An Brief Introduction to Error-control Coding 5. Information Theorey 6. The Multiuser Radio Communications	Syllabus	The course is intended to provide a comprehensive coverage of digital communication systems for senior undergraduates and first year graduate students. 1. Introduction 2. Digital Modulation 3. Spread-Spectrum Systems 4. An Brief Introduction to Error-control Coding 5. Information Theorey 6. The Multiuser Radio Communications

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