朝陽科技大學 094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	2442	Course Number	2442
授課教師	王德譽	Instructor	WANG,DE YU
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	Textbook: S. Haykin, "Communication systems: 4th edition, 2001 Reference: B. Sklar "Digital Communications" Second edition, 2001.	Teaching Materials	
成績評量方式	平時40%，期中考30%，期末考30%	Grading	test and home work 40%, midterm 30%, final 30%
教師網頁			
教學內容	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	Syllabus	1. Passband digital transmission 2. Spread-spectrum modulation 3. Multiuser radio communications 4. Fundamental limits in information theory 5. Error-control Coding

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