朝陽科技大學 094學年度第1學期教學大綱
Signals & Systems 訊號與系統

當期課號	2437	Course Number	2437
授課教師	陳政宏	Instructor	CHEN,CHENG HUNG
中文課名	訊號與系統	Course Name	Signals & Systems
開課單位	資訊工程系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程主要講述訊號以及系統的數學描述方法及其相互關係。課程內容包括-類比訊號、離散訊號、類比系統以及離散系統的時域表示法和頻域表示法。學生在完成本課程後，將可了解以下之基本原理：1. 捲積和運算、2.傅立葉轉換、3. 取樣原理、4. 數位濾波器原理。	Objectives	The goal of this course is to provide the students with a basic knowledge of system and signals. The main topics include the time domain and frequency domain of analog signal、discrete signal、analog system and discrete system. The students will realize the following basics after finishing this course: 1. the convolution theory, 2. the Fourier transform, 3. the sampling theory, 4. the application of digital filter theory.
教材	Signals and Systems (second Edition) Authors: Simon Haykin and Barry Van Veen, John Wiley & Sons, Inc.	Teaching Materials	
成績評量方式	1. Midterm exam: 30% 2. Final exam: 40% 3. Homework:30%	Grading	1. Midterm exam: 30% 2. Final exam: 40% 3. Homework:30%
教師網頁	http://www.csie.cyut.edu.tw/~chchen/		
教學內容	1. Introduction 2. Time-Domain Representation of Signals and Systems 3. Fourier Represenation of Signals and Systems 4. Application of Fourier Representation to Mixed 5. Laplace Transform Representation of Continuous-Time Signals and Systems 6. z-Transform Representation of Discrete-Time Signals and Systems	Syllabus	1. Introduction 2. Time-Domain Representation of Signals and Systems 3. Fourier Represenation of Signals and Systems 4. Application of Fourier Representation to Mixed 5. Laplace Transform Representation of Continuous-Time Signals and Systems 6. z-Transform Representation of Discrete-Time Signals and Systems

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