

朝陽科技大學 097學年度第1學期教學大綱
Signals & Systems 訊號與系統

當期課號	2761	Course Number	2761
授課教師	鄭佳忻	Instructor	CHENG,CHIA HSIN
中文課名	訊號與系統	Course Name	Signals & Systems
開課單位	資訊與通訊系(四日)二A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	"本課程使學生能夠 1.了解連續時間與不連續時間訊號、訊號與系統間之特性及其相互關係。(知識) 2.能夠瞭解系統及線性非時變系統的數學模型。(能力) 3.瞭解類比系統以及離散系統的時域與頻域表示法之意義及其重要性。(態度) 4.能描述系統及線性非時變系統之特性並比較之。(其他)"	Objectives	The goal of this course is enables students to 1. understand the characteristics and their mutual relations of the continuous time, discrete time signals, and systems. (Knowledge) 2. to understand the system and linear non-time-dependent mathematical model of the systems. (Capacity) 3. understand the simulation system and discrete-time systems-domain and frequency-domain notation of the significance and importance. (Attitude) 4. can describe the system and linear non-time-varying systems characteristics and comparison. (Other)
教材	資通訊教改聯盟訊號與系統教材 參考書籍：訊號與系統精要	Teaching Materials	A Brief Introduction to Signals, systems, and transforms, Charles L. Phillips etc, Prentice Hall
成績評量方式	期中考:30% 期末考:30% 平時成績:40%, 包含: 1. 小考 2. 作業 3. 出席率	Grading	midterm examination:30% final examination:30% others:40%, include: 1. quiz 2.homework 3.attendance
教師網頁	http://www.cyut.edu.tw/~chcheng		
教學內容	本課程之教學目標在使學生瞭解信號與系統之基本概念及分析方法，以作為控制，通訊，電子電路，濾波器設計及數位信號處理等課程修習之基礎。課程內容包含：(1)標準訊號及訊號表示法 (2)連續系統的數學分析 (3)離散系統的數學分析 (4)拉氏轉換分析 (5)Z-轉換分析 (6)傅立葉分析 (7)工程應用。	Syllabus	course title : signals and systems description : this course contains the properties of signals , systems , LTI systems , and basis linear transforms . this is a basic course in the field of control and communication .

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