朝陽科技大學 096學年度第1學期教學大綱
Special Topic on Signal Processing（Ⅰ）訊號處理專題(一)

當期課號	7410	Course Number	7410
授課教師	謝政勳	Instructor	HSIEH,CHENG HSIUNG
中文課名	訊號處理專題(一)	Course Name	Special Topic on Signal Processing (Ⅰ)
開課單位	資訊工程系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	2	Credits	2
課程目標	本課程爲實務課程，授課內容主要爲將學生所學有關訊號處理的知識實際應用於語音及影像處理上。課程內容將講授包括-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，將可利用以下之基本原理：1. 內積和運算、2.傅立葉轉換、3. 取樣原理、4. 數位濾波器原理等進行語音及影像處理。	Objectives	The goal of this course is to teach the students to implement the signal processing on image processing with speech processing. In this course the students will learn 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. Finally, the students will use above knowledges to implement on image processing and speech processing.
教材	Corresponding to journal papers and technical reports	Teaching Materials	
成績評量方式	論文報告整體表現: 50% 專案: 40% 書面報告: 10%	Grading	paper presentations: 50% Team project: 40% Team report: 10%
教師網頁			
教學內容	以書報討論形式,研討有關影像處理,圖形識別,語音處理等訊號處理之技術及系統	Syllabus	This course trains graduate students to professionally present and write a report/or thesis. Students must be take image processing, pattern recognition, and speech signal processing.

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