

**朝陽科技大學 096學年度第2學期教學大綱**  
**Special Topic on Signal Processing (II) 訊號處理專題(二)**

<b>當期課號</b>	7413	<b>Course Number</b>	7413
<b>授課教師</b>	謝政勳	<b>Instructor</b>	HSIEH, CHENG HSIUNG
<b>中文課名</b>	訊號處理專題(二)	<b>Course Name</b>	Special Topic on Signal Processing (II)
<b>開課單位</b>	資訊工程系碩士班一A	<b>Department</b>	
<b>修習別</b>	選修	<b>Required/Elective</b>	Elective
<b>學分數</b>	2	<b>Credits</b>	2
<b>課程目標</b>	本課程為實務課程，授課內容主要為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。	<b>Objectives</b>	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.
<b>教材</b>	Corresponding to journal papers and technical reports	<b>Teaching Materials</b>	
<b>成績評量方式</b>	論文報告整體表現: 50% 專案: 40% 書面報告: 10%	<b>Grading</b>	paper presentations: 50% Team project: 40% Team report: 10%
<b>教師網頁</b>	<a href="http://www.cyut.edu.tw/~ccyao">http://www.cyut.edu.tw/~ccyao</a>		
<b>教學內容</b>	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	<b>Syllabus</b>	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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