

**朝陽科技大學 096學年度第2學期教學大綱**  
**Computer Vision System 電腦視覺系統**

當期課號	7161	Course Number	7161
授課教師	林宏達	Instructor	LIN,HONG DAR
中文課名	電腦視覺系統	Course Name	Computer Vision System
開課單位	工業工程與管理系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	介紹影像之抽樣與量化、影像之前處理、影像處理與分析、影像模式、及影像辨認等理論，並介紹電腦視覺於物體辨認、自動化檢驗及機器人視覺等之應用。	Objectives	<p>This course will cover the basic concepts and applications of important computer vision and automation including:</p> <ul style="list-style-type: none"> <li>1. Digital Image Construction</li> <li>2. Fundamentals of Digital Image</li> <li>3. Image Transformation</li> <li>4. Image Enhancement</li> <li>5. Image Segmentation</li> <li>6. Binary Image Processing</li> <li>7. Computer Vision in Industrial Applications</li> </ul>
教材	1. "Digital Image Processing" by Rafael C. Gonzalez and Richard E. Woods, 2nd edition, Prentice-Hall, Inc., 2002 (開發書局)	Teaching Materials	
成績評量方式	平時作業(40%)、期刊研讀報告(10%)、期中考(20%)、學期書面與口頭報告(30%)。	Grading	Homework (40%) Paper presentation (10%) Mid-term Exam. (20%) Final project (30%)
教師網頁	<a href="http://qclab.iem.cyut.edu.tw">qclab.iem.cyut.edu.tw</a>		
教學內容	此課程涵蓋電腦視覺與自動化之理論與應用,內容如下: 1. Digital Image Construction 2. Fundamentals of Digital Image 3. Image Transformation 4. Image Enhancement 5. Image Segmentation 6. Binary Image Processing 7. Computer Vision Techniques in Industrial Applications	Syllabus	<p>This course will cover the basic concepts and applications of important computer vision and automation including:</p> <ul style="list-style-type: none"> <li>1. Digital Image Construction</li> <li>2. Fundamentals of Digital Image</li> <li>3. Image Transformation</li> <li>4. Image Enhancement</li> <li>5. Image Segmentation</li> <li>6. Binary Image Processing</li> <li>7. Computer Vision Techniques in Industrial Applications</li> </ul>

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