

**朝陽科技大學 095學年度第2學期教學大綱**  
**Automated Inspection and Measurement 自動化檢測**

<b>當期課號</b>	7162	<b>Course Number</b>	7162
<b>授課教師</b>	林宏達	<b>Instructor</b>	LIN,HONG DAR
<b>中文課名</b>	自動化檢測	<b>Course Name</b>	Automated Inspection and Measurement
<b>開課單位</b>	工業工程與管理系碩士班一A	<b>Department</b>	
<b>修習別</b>	選修	<b>Required/Elective</b>	Elective
<b>學分數</b>	3	<b>Credits</b>	3
<b>課程目標</b>	本課程介紹工業上常用的檢驗與量測技術，以及如何利用這些檢測技術來達到提昇產品品質與製程生產力之目的。本課程主要內容包含電腦視覺系統、二、三次元座標量測儀、量測系統能力分析、統計品質管制技術等。	<b>Objectives</b>	This course will cover the basic concepts and applications of important automated inspection and measurement.
<b>教材</b>	自編教材	<b>Teaching Materials</b>	
<b>成績評量方式</b>	6個Lab. Assignments (40%) 期中考(上機考試，Open books) (20%) Term Project (學期書面與口頭報告) (40%)	<b>Grading</b>	Six Lab. Assignments (40%) Midterm exam. (Open books) (20%) Term Project (report and presentation) (40%)
<b>教師網頁</b>	-		
<b>教學內容</b>	This course will cover the basic concepts and applications of important automated inspection and measurement including: 1. Concepts of precision inspection and measurement 2. New perspectives of quality 3. 2-D optical coordinate measuring machine (2D CMM) 4. 3-D probe coordinate measuring machine (3D CMM) 5. Computer vision system 6. Statistical process control 7. Advanced quality control techniques	<b>Syllabus</b>	This course will cover the basic concepts and applications of important automated inspection and measurement including: 1. Concepts of precision inspection and measurement 2. New perspectives of quality 3. 2-D optical coordinate measuring machine (2D CMM) 4. 3-D probe coordinate measuring machine (3D CMM) 5. Computer vision system 6. Statistical process control 7. Advanced quality control techniques

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