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

當期課號	7162	Course Number	7162
授課教師	林宏達	Instructor	LIN,HONG DAR
中文課名	自動化檢測	Course Name	Automated Inspection and Measurement
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	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。	Objectives	This course will cover the basic concepts and applications of important automated inspection and measurement.
教材	自編教材	Teaching Materials	
成績評量方式	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%)	Grading	Six Lab. Assignments (40%) Midterm exam. (Open books) (20%) Term Project (report and presentation) (40%)
教師網頁			
教學內容	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	Syllabus	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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