朝陽科技大學 097學年度第1學期教學大綱
Measurement Science 測量學

當期課號	1614	Course Number	1614
授課教師	黃怡碩	Instructor	HUANG,YI SHUO
中文課名	測量學	Course Name	Measurement Science
開課單位	營建工程系(四日)一B	Department	
修習別	必修	Required/Elective	Required
學分數	2	Credits	2
課程目標	學習測量原理及技術，使對測量基礎理論有正確認識，並增加對現代高科技測量方法認識。距離測量及誤差觀念介紹。測距測角，測高程，測地形之基本測量理論。遙測技術及全球衛星定位系統介紹。	Objectives	This course introduces basic concepts of surveying, including error and precision, least square adjustment, error propagation, measurment of distance, angle, and elevation, leveling, traverse, plane table, topographic surveying, and triangulation. Some advanced technology is also introduced such as photogrammertry, remote sensing (RS), global positioning system (GPS), and geographic information system (GIS).
教材	測量學-何維信(TEL：02-27357656或29393091轉8003)最新版 Surveying – Theory and Practice ISBN:0-07-015914-9 By James M. Anderson & Edward M. Mikhail Elementary Surveying, 9th ed. By Paul P. Wolf & R. C. Brinker	Teaching Materials	Surveying – Theory and Practice ISBN:0-07-015914-9 By James M. Anderson & Edward M. Mikhail Elementary Surveying, 9th ed. By Paul P. Wolf & R. C. Brinker
成績評量方式	小考(6次) 55% 期中考(二小時) 20% 期末考(二小時) 25%	Grading	Quisz 55% MidTerm 20% Final 25%
教師網頁			
教學內容	複習三角幾何關係與測量之應用與發展 測量基本知識 決定空間的位置 方向 距離量測 角度量測 導線計算 直接高程與間接高程 誤差理論 誤差傳播理論 衛星定位介紹 地理資訊系統介紹	Syllabus	Familiar with Geometry and the application in Engineering Basic Knowledge of Geomatics Determinate the Specified spatial position Directions Distancce measurements Angle Measurements Traverse Computation Elevation Determination Error Theory Error Propagation Introduction to GPS Introduction to Geographic Information system

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