朝陽科技大學 099學年度第2學期教學大綱
Non-destructive Evaluation for Steel Structure (I) 鋼結構檢測(一)

當期課號	1527	Course Number	1527
授課教師	彭朋畿	Instructor	Peng,Chi Peng
中文課名	鋼結構檢測(一)	Course Name	Non-destructive Evaluation for Steel Structure (I)
開課單位	營建工程系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程目標在使同學能夠瞭解： a.非破壞檢測方法及應用範圍。 b. 鋼結構磁粒檢測法。 c. 鋼結構超音波檢測法。	Objectives	To make students understand the following testing methods: a. Nondestructive testing and its applications b. Ultrasonic testing of steel structure. c. Magnetic testing of steel structure
教材	液滲檢測法初級，錢宗廣編著，中華民國非破壞檢測協會。	Teaching Materials	Liquid penetrant testing (ROCSNT)
成績評量方式	期中考簡報50%；期末考50%	Grading	Presentation 50%;Examination 50%
教師網頁			
教學內容	此課程爲結構相關應用課程，亦是國內「財團法人台灣非破壞檢測協會」部分訓練課程，目前「財團法人台灣非破壞檢測協會」爲國內非破壞檢測證照唯一政府認可之授證單位。本課程將鋼結構工程中常用的檢測方法作完整性的介紹，課程包括非破壞檢測應用範圍、鋼結構目視檢測法、鋼結構液滲檢測法、鋼結構超音波檢測法及鋼結構放射線檢測法等。	Syllabus	This is an applied class of structure and also a training course of “The society of nondestructive testing & certification of Taiwan”, which is the only government certified organization for issuing nondestructive testing certifications. This course has a complete coverage of common testing methods of steel structure, including nondestructive testing and its applications, visual testing, liquid penetrate testing, ultrasonic testing and Magnetic testing methods.

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