朝陽科技大學 097學年度第2學期教學大綱
Environmental Monitoring 環境監測

當期課號	7705	Course Number	7705
授課教師	林浩潭	Instructor	LIN,HAW TRAN
中文課名	環境監測	Course Name	Environmental Monitoring
開課單位	環境工程與管理系碩士在職專班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程以環境系統與生命週期觀點介紹環境採樣設計原理，實驗室之品保、品管管理以及實驗數據分析與環境問題診斷。透過這門課的介紹，使同學學會如何藉由實驗設計、採樣分析瞭解環境問題的因果與互動關連。	Objectives	This course introduces the principle of sampling, and the application of QA/QC program to environmental data management. This course emphasized the integrated application of environmental informatics and sampling techniques to environmenatl management and engineering.
教材	1.相關期刊論文、研究報告、行政院環保署環境檢驗及環境檢測相關資料。 2.Wiersma, G.B. Environmental monitoring CRC Press. (2004). 3.Artiola, J., I. Pepper and M. Brusseau. Environmental monitoring and characterization. Academic Press. (2004).	Teaching Materials	1.Environmental monitoring techniques from EPA. 2.Wiersma, G.B. Environmental monitoring CRC Press. (2004). 3.Artiola, J., I. Pepper and M. Brusseau. Environmental monitoring and characterization. Academic Press. (2004).
成績評量方式	口頭報告一次(期中)(60%)，於期末繳交一篇學習報告(40%)。	Grading	Oral presentation (midterm) (60%) and hand in a report of environmental monitoring techniques(40%).
教師網頁	http://lms.ctl.cyut.edu.tw/		
教學內容	1.環境監測之基本觀念與應用 2.監測計畫研擬 3.採樣、樣品保存與處理 4.土壤污染監測與污染物檢測 5.水污染監測與污染物檢測 6.空氣污染監測與污染物檢測 7.廢棄物監測與檢測 8.檢測品質管理 9.檢測資料之整理與報告之撰寫 10.實驗室管理與維護	Syllabus	1.The basic concepts and applications of environment monitoring. 2.Environment monitoring programs editing. 3.Sampling, sample management and preservation. 4.Soil and vadose zone monitoring and characterization 5.Water monitoring and characterization. 6.Atmospheric monitoring and characterization. 7.Waste materials analysis. 8.Quality assurance and quality control. 9.Data processing and report editing. 10.Laboratory management.

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