朝陽科技大學 091學年度第1學期教學大綱
Design of Experiment 實驗設計

當期課號	7600	Course Number	7600
授課教師	洪弘祈	Instructor	HORNG,HORNG CHYI
中文課名	實驗設計	Course Name	Design of Experiment
開課單位	工業工程與管理系碩士在職專班二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	使學生具備下述之能力。 a. 了解變異數分析之理論； b. 設計並執行實驗； c. 選擇適當之實驗設計來解決特定問題； d. 分析實驗結果之統計資料； e. 萃取影響反應變數之重要因子； f. 有效溝通並呈現實驗設計分析結果。	Objectives	Students will be able to: a. Understand the theory of ANOVA. b. Design and conduct an experiment. c. Select adequate experimental designs for a given real-world problem. d. Perform statistical analysis on experiment results. e. Identify important factors for response variables. f. Communicate the results of DOE analysis both orally and in writing.
教材	Lecture, term project, report writing, group discussion, experimenting, and oral presentation.	Teaching Materials	
成績評量方式	Homework 20% Exam 40% Project 40% (oral 10%, report 30%)	Grading	
教師網頁	_		
教學內容	The principles and practice of ANOVA and Design of Experiments, including randomization, complete and incomplete block design, two/three level factorial design, mixture design, and Taguchi's method.	Syllabus	

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