朝陽科技大學 099學年度第1學期教學大綱
Engineering Statistics(3) 工程統計(三)

當期課號	1604	**Course Number**	1604
授課教師	洪弘祈	**Instructor**	HORNG,HORNG CHYI
中文課名	工程統計(三)	**Course Name**	Engineering Statistics(3)
開課單位	工業工程與管理系(四日)三A	**Department**	
修習別	選修	**Required/Elective**	Elective
學分數	3	**Credits**	3
課程目標	本課程旨在教授學生基礎變異數及迴歸分析之統計理論以及應用SPSS統計軟體解決並分析資料推論的問題。	**Objectives**	This course aims to cover the essential topics of linear regression and ANOVA. By means of collecting data and analyzing with computer software, the students are trained to understand the state of the art of relevant statistical methods.
教材	D.C. Montgomery/G.C. Runger, “Applied Statistics and Probability for Engineering,” 4th Edition, 2007, John Wiley & Sons, Inc.（高立圖書公司代理）。	**Teaching Materials**	D.C. Montgomery/G.C. Runger, “Applied Statistics and Probability for Engineering,” 4th Edition, 2007, John Wiley & Sons, Inc.
成績評量方式	作業 10% 專題報告(共兩份) 40% 小考與期末考(共三次) 50% 出席 additional 10%	**Grading**	Quiz & Exam 50% HW 10% Project 2*20% 40% Attendant additional 10%
教師網頁	http://www.cyut.edu.tw/~hchorng		
教學內容	此課程旨在使學生理解並運用統計的方法與分析技巧，以奠定後續應用統計課程之基礎。課程之重點在於延續工程統計(一)(二)之基礎數理訓練，強化學生使用推論統計分析工程與管理實務問題之能力。主要授課主題包括兩母體假設檢定、變異數分析、無母數統計、以及回歸分析。本課程透過密集且循序漸進之測驗及分組專題來加強學生之基礎統計能力，以因應日後修習進階統計應用課程之需求。	**Syllabus**	The purpose of this course is to enable students with the capability of applying statistical methods in real-world problems. It also is one of the fundamental courses, along with Engineering Statistics I and II(IE2006), for advanced statistical training of IE students. Major topics focus on hypothesis testing of two populations, ANOVA, nonparametric statistic, and regression analysis. This course intends to improve students' statistical knowledge via intensive tests and field project.

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