

朝陽科技大學 099學年度第1學期教學大綱
Advanced Statistical Methods 高等統計方法

當期課號	7195	Course Number	7195
授課教師	洪弘祈	Instructor	HORNG,HORNG CHYI
中文課名	高等統計方法	Course Name	Advanced Statistical Methods
開課單位	工業工程與管理系碩士班一A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	本課程主要介紹進階統計學的理論、方法、與應用，並偏重於基礎數理統計、迴歸分析與變異數分析等。	Objectives	This course aims to provide advanced statistics theory and some application of statistical methods. Selected topics are: basic concept of mathematical statistics, regression, analysis of variance (ANOVA), etc
教材	Applied Statistics and Probability for Engineers, 4th Edition Douglas C. Montgomery, George C. Runger ISBN: 978-0-471-74589-1 Hardcover 784 pages April 2006	Teaching Materials	Applied Statistics and Probability for Engineers, 4th Edition Douglas C. Montgomery, George C. Runger ISBN: 978-0-471-74589-1 Hardcover 784 pages April 2006
成績評量方式	報告與口頭簡報 20% 考試 80%	Grading	Report & presentation 20% Exam 80%
教師網頁	http://www.cyut.edu.tw/~hchorng		
教學內容	複習基礎工程統計(包括抽樣及抽樣分布，點及區間估計，假設檢定等)，並著重於迴歸分析，變異數分析，以及無母數分析，以使學生具備完整之統計分析技巧，應用於學術論文研究及產業實務。	Syllabus	This course reviews some of the fundamental statistics (including sampling and sample distribution, point and interval estimation, hypothesis testing) and introduces advanced topics such as ANOVA, regression analysis, and Nonparametric Statistics. The purpose is to facilitate students with sound statistical skill in studying academic research as well as solving real-world problems.

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