朝陽科技大學 098學年度第1學期教學大綱 Advanced Statistical analysis 進階統計分析

當期課號	7342	Course Number	7342
授課教師	楊文華	Instructor	YANG,WEN HUA
中文課名	進階統計分析	Course Name	Advanced Statistical analysis
開課單位	應用外語系碩士班二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程潛研究的實際應用。內,並統計推論的相關基本原理所應用。內,並統計推論的相關基本概念,並就不同性質的資法。授課與所謂,其一個人類,與對立於一個人類,與對立於一個人類,與對立於一個人類,與對於一個人類,以對於一個人類,與一個人類,與一個人,與一個人類,與一個人類,與一個人類,與一個人類,與一個人類,與一個人類,與一個人類,與一個人類,與一個人類,與一個人類,與一個人類,與一個人類,與一個人類,與一個人類,與一個人類,與一個人類,與一個人類,與一個人類,與一個人,與一個人,與一個人類,與一個人,與一個人,與一個人,與一個人,與一個人,與一個人,與一個人,與一個人	Objectives	This course is designed to cover basic principles of inferential statistics and practical application for the research of behavioral science. The basic concepts of statistical inference, and appropriate statistical methods for different data and research designs are the most emphasized. The main topics include principles of sampling distribution, steps of hypothesis testing, estimation of confidence interval, t-test, Chi-square test, analysis of variance for different factors and multiple comparisons, correlation and regression analysis, and analysis of covariance. In addition, for the needs of graduate students in doing quantitative research, this course also involves the application of statistical package software. Through the highly-organized teaching materials, along with the example explanations and practice, students should understand the usage of different statistical methods, and make reasonable inference about the population according to the sample result. The main goal is to enhance the ability needed in analyzing data, and explain the meaning of research results correctly, as well as to lay a foundation in social science research.
教材	參考教材: 1. 統計學(智高書局)(陳建勝、呂 兆文、陳美菁、朱瑞淵、呂明哲等 著) 2. SPSS統計應用學習實務(知城數 位科技)(吳明隆編著)	Teaching Materials	
成績評量方式	1. 平時成績 20% 2. 期中考試 40% 3. 期末考試 40%	Grading	Report and class participation (20%) Midterm examination (40%) Final examination (40%)
教師網頁	http://www.cyut.edu.tw/~whyang		
教學內容	1. 抽樣分配的原理 2. 假設考驗的步驟 3. 信賴區間的估計 4. t考驗 5. 卡方考驗 6. 不同因子的變異數分析與事後比較 7. 相關與迴歸分析 8. 共變數分析	Syllabus	1. Sampling distribution 2. Hypothesis test 3. Confidence interval 4. t-test 5. Chi-test 6. Analysis of variance 7. Correlation and regression analysis 8. Covariance analysis