

朝陽科技大學 094學年度第1學期教學大綱  
Statistics 統計學

當期課號	3135	Course Number	3135
授課教師	張志榮	Instructor	CHANG,JYH RONG
中文課名	統計學	Course Name	Statistics
開課單位	企業管理系(四進)二A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	本課程旨在使學生熟悉統計基本概念、原理及技巧,使其能對相關資料作組織、彙整、衡量並根據資料所得的結果加以評估及推論以幫助吾人作決策,一學年課程包括1. 統計學的意義與應用 2. 資料的類型 3. 機率的基本概念 4. 敘述統計的種類、計算與應用 5. 常用的機率分配模型 6. 抽樣分配與其應用 7. 估計的觀念與介紹 8. 假設檢定的介紹與其應用 9. 卡方檢定 10. 變異數分析 11. 相關與簡單線性迴歸分析。	Objectives	The purpose of this course is to acquaint the students with the statistical concepts, fundamentals and techniques needed to organize, measure and evaluate data that may then be used to support people to make better decisions in the face of uncertainty. Topics include: 1. The meaning and application of statistics 2. Type of data 3. Basic principle of probability 4. Introduction of descriptive statistics and its applications 5. Discrete and continuous probability 6. Sampling distribution and its application 7. Introduction and concept of estimation 8. Hypothesis testing 9. Chi-square testing 10. Analysis of variance 11. Correlation and simple linear regression analysis
教材	教材:統計學 陳建勝等著 智高書局 2004年 參考書:1.基本統計學 林惠玲 陳正倉 合著 雙葉書廊 2004年 2.統計學-觀念、理論與方法 Statistics-Concepts, Theory and Methods 賀力行等著 前程出版 2003年 3. Modern Elementary Statistics, John E Freund, 11th edition, Pearson Education Inc. 2004	Teaching Materials	
成績評量方式	期中考-30% 期末考-40% 上課出席, 參與狀況及平時考-30%	Grading	Mid-term Exam.-30% Final Exam.-40% Presence. Participation, and Quiz-30%
教師網頁	-		
教學內容	本課程主要在使學生熟悉統計基本概念、原理及計巧,使其能對相關資料作組織、彙整、衡量並根據資料所得的結果加以評估及推論以幫助吾人作決策。主要內容:1.統計學的意義及應用 2.資料的類型 3.機率論 4.集中量數及離中量數的計算與應用 5.常用的間斷及連續的機率分配模型 6.抽樣分配的概念	Syllabus	The purpose of this course is to acquaint the students with the statistical concepts, fundamentals, and techniques needed to organize, measure, and evaluate data that may then be used to support people to make better decisions in the face of uncertainty. Topics include: 1. The meaning and application of statistics 2. Type of data 3. Basic principle of probability 4. Introduction and meaning of descriptive statistics 5. Discrete and Continuous Prob. Distribution 6. The concept of Sampling distribution

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