

朝陽科技大學 099學年度第2學期教學大綱
Probabilities and Statistics 機率與統計

當期課號	3672	Course Number	3672
授課教師	劉省宏	Instructor	LIU,SHING HONG
中文課名	機率與統計	Course Name	Probabilities and Statistics
開課單位	資訊工程系(四進)三A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	<p>本課程主要介紹基本機率觀念及隨機變數函數，其主要涵蓋的範圍有：</p> <ol style="list-style-type: none"> 1. 簡介 2. 基本機率 3. 單一隨機變數 4. 隨機變數函數 5. 雙隨機變數 6. 函數及期望值 7. 特徵函數 8. 多隨機變數 	Objectives	<p>This course gives an introduction to the concepts of probability and the functions of random Variables. Topics to be covered are:</p> <ol style="list-style-type: none"> 1. Introduction. 2. Basic Probability. 3. A Single Random Variable. 4. Functions of a Random Variable and Expectations. 5. Two Random Variables. 6. Expectations and Functions. 7. Characteristic Function. 8. Multiple Random Variables.
教材	<ol style="list-style-type: none"> 1. 教科書 "統計學以Excel為例" 新文京開發 2. 使用黑板和簡報教授課程 3. 指定作業練習和平實考 4. 實施中中和期末考 	Teaching Materials	<ol style="list-style-type: none"> 1. Text book. "統計學以Excel為例" 2. speak teaching by board and PPT 3. Home work and test 4. Midterm and final exam.
成績評量方式	<ol style="list-style-type: none"> 1. 期中和期末各30% 2. 小考和作業外加出席率40% 	Grading	<ol style="list-style-type: none"> 1. Midterm/ final exam: 30% respectively. 2. Home work, test, and learning attitude 40%
教師網頁	-		
教學內容	集中數,變異量數,間斷機率分配,常態分配,抽樣,統計估計,卡方分配,變異數分析	Syllabus	Measures of central tendency, Measure of variability, Discrete random variable, Normal distribution, Sampling, Tests of estimation, Chi square statistics, ANOVA

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