朝陽科技大學 097學年度第2學期教學大綱
Probabilities and Statistics 機率與統計

當期課號	3767	Course Number	3767
授課教師	許志宇	Instructor	HSU,CHIH YU
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	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： 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	This course gives an introduction to the concepts of parability and the functions of random Variables. Topics to be covered are: 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	1.The Probability Tutoring Book 2.Probability, Random Variables, and Random Signal Principles, 4th Edition Peyton Peebles Jr., UNIV OF FLORIDA @ GAINESVILLE	Teaching Materials	1.The Probability Tutoring Book 2.Probability, Random Variables, and Random Signal Principles, 4th Edition Peyton Peebles Jr., UNIV OF FLORIDA @ GAINESVILLE
成績評量方式	小考 40% 期末考 30% 期中考 30%	Grading	Class test 40% Midterm Exam 30% Final Exam 30%
教師網頁			
教學內容	這門課適合大學的資訊與電機領域的同學修習,內容包含基礎理論與實際應用,內容組織方式注重邏輯一貫,讓同學了解機率與統計的概念,同時也將介紹離散時間的隨機程序與序列.將有助於未來對於數位訊號處理及數位時間線性系統的學習.	Syllabus	The course is an introduction to probability theory for the junior-senior level course in electrical engineering. The ourse offers a careful, logical organization which stresses fundamentals and includes practical applications for engineers to understand probability concepts. The course includes discrete-time random processes and sequences, and other topics in the general area of digital signal processing, such as the DT linear system.