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	2667	Course Number	2667
授課教師	謝富雄	Instructor	HSIEH,FU SHIUNG
中文課名	機率與統計	Course Name	Probabilities and Statistics
開課單位	資訊工程系(四日)二C	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		Teaching Materials	
成績評量方式	Test and home work 40%, Midterm exam. 30%, Final exam. 30%	Grading	Test and home work 40%, Midterm exam. 30%, Final exam. 30%
教師網頁	http://www.cyut.edu.tw/~fshsieh/		
教學內容	1. Introduction to Probability Theory 2. Set definition and operations 3. Probability introduced through sets and relative frequency 4. Joint and Conditional Probability 5. Independent 6. Random Variables 7. Distribution Function 8. Density Function 9. Gaussian Random Variables 10.Conditional Distribution and Density Functions 11. Expectation 12. Moments 13. Transformation of a Random Variable 14. Multiple Random Variables 15. Joint Distribution and Its Properties 16. Joint Density and Its Properties 18. Conditional Distribution and Density	Syllabus	1. Introduction to Probability Theory 2. Set definition and operations 3. Probability introduced through sets and relative frequency 4. Joint and Conditional Probability 5. Independent 6. Random Variables 7. Distribution Function 8. Density Function 9. Gaussian Random Variables 10.Conditional Distribution and Density Functions 11. Expectation 12. Moments 13. Transformation of a Random Variable 14. Multiple Random Variables 15. Joint Distribution and Its Properties 16. Joint Density and Its Properties 18. Conditional Distribution and Density

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