

朝陽科技大學 093學年度第2學期教學大綱
Probabilities and Statistics 機率與統計

當期課號	2012	Course Number	2012
授課教師	謝政勳	Instructor	HSIEH,CHENG HSIUNG
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	<p>Probability, Random Variables, and Random Signal Principles, P.Z. Peebles, Jr. McGraw-Hill, 4th Edition, (開發圖書代理)</p>	Teaching Materials	
成績評量方式	小考及作業40%，期中考30%，期末考30%	Grading	Test and home work 40%, Midterm exam. 30%, Final exam. 30%
教師網頁	-		
教學內容	<ol style="list-style-type: none"> 1. 基本機率 2. 獨立及二階段實驗 3. 期望值 4. 連續隨機變數 5. 聯合分佈隨機變數 6. 條件機率及極限定理 	Syllabus	<ol style="list-style-type: none"> 1. Basic probability 2. Independent trials and 2-stage experiments 3. Expectation 4. Continuous random variables 5. Jointly distributed random variables 6. Conditional probability and limit theorems

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