朝陽科技大學 094學年度第1學期教學大綱
Engineering Statistics(2) 工程統計(二)

當期課號	1514	Course Number	1514
授課教師	江支弘	Instructor	CHIANG,CHIH HUNG
中文課名	工程統計(二)	Course Name	Engineering Statistics(2)
開課單位	營建工程系(四日)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程爲選修2學分之課程，爲工程統計(一)之延伸課程。課程重點在於使學生了解如何蒐集資訊，並應用統計與機率解析資訊，並訓練學生進行團隊合作、簡報與撰寫報告。講授主要內容包括統計估計、假設檢定、變異數分析與實驗設計等。	Objectives	This course focuses on statistical inferences. Main topics include statistical estimates, hypothesis testing, analysis of variance, and introductory simulations. The course enables the students to familiarize with the concept of inferential statistics and related applications on engineering problems. Students also benefit from interactive learning processes, within individual group, that lead to a term project and oral presentation.
教材	Modern engineering statistics by L.L.Lapin; 統計學的世界，鄭惟厚譯，天下文化; *統計，讓數字說話，鄭惟厚譯; *原文Statistics: concepts and controvercies, 4th ed. by Moore; Engineering statistics by Montgomery, Runger, Hubele; Probability and statistics for modern engineering by Lapin; Excel 97 中文版進階應用大全，林宏諭、林建宏、萬衛華編著; 工程機率統計學，徐義人編著	Teaching Materials	
成績評量方式	學習態度(含作業1-2次) 15% 討論參與或隨堂考 20% 期中考 20% 期末報告 口頭25% 書面 20%	Grading	Learning participation and Home assignments 15%; Contribution to discussion or Pop quiz 20%; Midterm 20%; Term report and oral presentation 20% + 25%
教師網頁			
教學內容	Review of sampling and experiments; Statistical testing; Analysis of variance; Experimental design; Probabilities and simulations.	Syllabus	Review of sampling and experiments; Statistical testing; Analysis of variance; Experimental design; Probabilities and simulations.

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