朝陽科技大學 097學年度第2學期教學大綱
Mathematic of Management 管理數學

當期課號	2516	Course Number	2516
授課教師	李金鳳	Instructor	LEE,CHIN FENG
中文課名	管理數學	Course Name	Mathematic of Management
開課單位	資訊管理系(四日)一A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	1.以系統化程序將問題簡化,並建立各種管理模式,藉由模式探討問題 的特性,提出決策與解決的方法. 2.將問題轉換成數學模式,並以實際問題來作理論的推導與運用. 3.線性模式:矩陣運算 資料分析(線性迴歸模式)4.線性規劃模式 5.財務模式 6.陳述模式 7.機率模式 8.馬可夫鏈模式.	Objectives	1.Systematize the procedure for simplify the problems. 2.Describ the process of mathematical modeling. 3.Develop technique for analyzing models. 4.Linear models:Matrices and its operations. 5.Linear programming models. 6.Financial models 7.Presentation models.
教材	管理數學(Fundamental Quantitative Methods for Management) 戴久永 編著/ 出版社：滄海書局	Teaching Materials	管理數學(Fundamental Quantitative Methods for Management) 戴久永 編著/ 出版社：滄海書局
成績評量方式	期中考試15% 期末考試20% 單元測驗 & 作業45% 平時成績= 出席情形&提問/發言 20%	Grading	The grading of this subject is composed of four assessments tasks: final exam,mid-term exam, quizzes & assignments, and class participation. The due date an dvalue of each task is summarized as below. Midterm 15% Final term 20% Quizzes & Assignments 45% Class Participation and Q&A 20%
教師網頁			
教學內容	課程內容 1管理數學概論 人生無處不賽局 作業一 (分組，匿名ID分配，認識同學) 228放假 2. 聯立線性方程式組與矩陣--矩陣及運算 2. 聯立線性方程式組與矩陣--基底的概念 作業一分組報告 3. 聯立線性方程式組與矩陣--基底的概念 3. 行列式 3. 行列式 3. 行列式 期中考close book (時間: 可能延後一周考式) 6. 線性規劃 6. 線性規劃 6. 線性規劃 10. 馬可夫鏈 10. 馬可夫鏈 10. 馬可夫鏈 11. 賽局理論 11. 賽局理論 期末考close book	Syllabus	This subject aims to provide students a basic understanding of the mathematicalconcepts and computational skills which could be applied in the management andsocial sciences areas. Upon completion of this subject, students should be able to:- Understand the topics of finite mathematics, including Linear Models, LinearProgramming, Matrix Applications, Basics Probability Concepts,Mathematics of Finance, and Markov Chain.- Use graphing calculators, spreadsheets, and online computer technology tosolve mathematics problems.Apply the above mathematics topics to the real business world and resolvepractical business problems (e.g. profit analysis, break-even analysis, andsupply and demand management). Time Commitment: This subject requires three hours class contact or equivalent per week (3 creditpoints). In addition to the hours of class contact students are expected to devote additional hours during the semester to studying for this subject. This includes timespent in preparing for and completing assessment tasks, together with time spent ingeneral study, revision, and exam preparation.

			Syllabus of Management Mathematics, Spring 2009(Tentative Version)

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