


表二

104 學年度 商 學院 英語授課課程大綱

課程名稱 Course Title 	(中文) 管理數學
	(英文) Mathematics with Business Application
課程目標 Course Objectives	<p>This course is an introduction to how quantitative models to be applied in aiding managerial decision-making. In practice, spreadsheets provide a comfortable and familiar environment for formulating and analyzing managerial problems. The spreadsheet takes care of applying the necessary mathematics automatically in the background with only a minimum of guidance by the user. Therefore, managers do not need to know any of the heavy mathematical theory. We will emphasize the use of spreadsheets throughout entire course.</p>
課程大綱 Course Description	<p>The topics covered in this course are as follows: Linear programming, Network Optimization Problems, Binary Integer Programming, Decision Analysis, etc. MS EXCEL will be the primary tool for the problem modeling and solving.</p>
上課進度 Weekly Course Schedule	<p>Week Date Content</p> <p>1 Course Introduction</p> <p>2 Modeling with Spreadsheet</p> <p>3 Linear Programming: Basic Concepts</p> <p>4 Linear Programming: Basic Concepts</p> <p>5 Linear Programming: Formulation and Applications</p> <p>6 Linear Programming: Formulation and Applications</p> <p>7 The Art of Modeling with Spreadsheets</p> <p>8 The Art of Modeling with Spreadsheets</p> <p>9 Group Project Progress Report</p> <p>10 Group Project Progress Report</p> <p>11 What-If Analysis for Linear Programming</p> <p>12 What-If Analysis for Linear Programming</p> <p>13 Network Optimization problems</p> <p>14 Network Optimization problems</p> <p>15 Binary Integer Programming</p> <p>16 Group Project Final Presentation</p> <p>17 Group Project Final Presentation</p> <p>18 Final Exam</p>
教學方式 Instructional Method	<p>Students are encouraged to discuss and share the ideas of course materials in class. Each student is required to joins the discussion at least four times.</p>
課程要求 Course Requirements	
評量方式 Evaluation	<p>Group Project-----40%</p> <p>In-class Discussion-----20%</p> <p>Final Exam-----40%</p>

<p>教材及參考書目 Textbooks & Suggested Materials</p>	<p>1. Textbook: F. S. Hillier and M. S. Hillier, Introduction to management Science: A Modeling and Case Studies Approach with Spreadsheets, International Edition 2011, McGraw-Hill.</p> <p>2. Reference Books: Bernard W. Taylor, Introduction to Management Science, 11th Edition, Pearson.</p>
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申請教師簽章：_____ 開課單位主管簽章：_____