

# 個別課程英文授課大綱

表單編號：QP-T02-07-11

保存年限：10 年

課程名稱 Course Title	(中文) 管理科學 (英文) Management Science		
授課教師 Instructor	陳春龍老師	開課單位 Departments	資管系
學分數 Credit(s)	3	修課對象 Target Students	學士班二年級
課程目標 Course Objectives	<ol style="list-style-type: none"> <li>1. To teach the students to apply linear programming (LP) and integer programming (IP) to real world problems. Students will be trained to formulate real world problems as LP and IP models. The students will also solve the models using LINDO LINGO and EXCEL.</li> <li>2. To teach the students to understand the theory and applications of the simplex method and sensitivity analysis. Some special LP problems such as transportation assignment problems and network models will also be included.</li> </ol>		
課程大綱 Course Description	<p>Week Chapter Subjects and Assignments</p> <ol style="list-style-type: none"> <li>1 Ch1 (2) Introduction to Operations Research</li> <li>2 Ch4 (3) Formulating Linear Programming Models</li> <li>3 Ch4 (3) Formulating Linear Programming Models</li> <li>4 Ch4 (3) Formulating Linear Programming Models</li> <li>5 Ch9 (2) Formulating Integer Programming Models</li> <li>6 First Exam</li> <li>7 放假</li> <li>8 Ch4 (2) Solving Linear Programming Problems: the Simplex Method</li> <li>9 Ch4 (2,4) The Simplex Method</li> <li>10 Ch4 (2,4) The Simplex Method</li> <li>11 Ch4 (2,4) The Simplex Method</li> <li>12 Ch6 (2,4) Sensitivity Analysis and Duality</li> <li>13 Second Exam</li> <li>14 Ch8 (2,4) Transportation, Assignment, and Transshipment Problems</li> <li>15 Ch8 (2,4) Transportation, Assignment, and Transshipment Problems</li> <li>16 Ch9 (2,4) Network Models</li> <li>17 Ch9 (2,4) Network Models</li> <li>18 Final Exam</li> </ol> <p>Note: The notation used under the column of Chapter, a(b): 'a' stands for the chapter number and 'b' stands for the book number</p>		

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<p>上課進度 Weekly Course Schedule</p>	<p>used in Section B.</p> <p>Week Chapter Subjects and Assignments</p> <p>1 Ch1 (2) Introduction to Operations Research</p> <p>2 Ch4 (3) Formulating Linear Programming Models</p> <p>3 Ch4 (3) Formulating Linear Programming Models</p> <p>4 Ch4 (3) Formulating Linear Programming Models</p> <p>5 Ch9 (2) Formulating Integer Programming Models</p> <p>6 First Exam</p> <p>7 放假</p> <p>8 Ch4 (2) Solving Linear Programming Problems: the Simplex Method</p> <p>9 Ch4 (2,4) The Simplex Method</p> <p>10 Ch4 (2,4) The Simplex Method</p> <p>11 Ch4 (2,4) The Simplex Method</p> <p>12 Ch6 (2,4) Sensitivity Analysis and Duality</p> <p>13 Second Exam</p> <p>14 Ch8 (2,4) Transportation, Assignment, and Transshipment Problems</p> <p>15 Ch8 (2,4) Transportation, Assignment, and Transshipment Problems</p> <p>16 Ch9 (2,4) Network Models</p> <p>17 Ch9 (2,4) Network Models</p> <p>18 Final Exam</p> <p>Note: The notation used under the column of Chapter, a(b): 'a' stands for the chapter number and 'b' stands for the book number used in Section B.</p>
<p>教學方式 Instructional Method</p>	<p>Lectures and Case Study</p>
<p>課程要求 Course Requirements</p>	<p>1. Homework, Cases and Reports 25%</p> <p>2. Three Exams 75%</p>
<p>評量方式 Evaluation</p>	<p>1. Homework, Cases and Reports 25%</p> <p>2. Three Exams 75%</p>
<p>教材及參考書目 Textbooks &amp; Suggested Materials</p>	<p>Text Books</p> <p>1. F.S. Hillier M.S. Hillier K. Schmeder and M. Stephens Introduction to Management Science Fourth Edition McGraw Hill 2011.</p> <p>2. W. L. Winston, Operations Research, Fourth Edition, Brooks/Cole, 2004.</p> <p>3. R. L. Rardin, Optimization in Operations Research, Prentice</p>

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	Hall, 1998. 4. N. Wu and R. Coppins, Linear Programming and Extensions, McGraw Hill, 1981.
課程相關 連結網址 Course Website	
備註 Remarks	