表二

102-2 學年度 __商__ 學院 英語授課課程大綱

課程名稱 Course Title ☐模組 ☐個別	(中文) 管理科學
	(英文) Management Science

課程目標 Course Objectives	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. 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.
課程大綱 Course Description	Week Chapter Subjects and Assignments 1 Ch1 (2) Introduction to Operations Research 2 Ch4 (3) Formulating Linear Programming Models 3 Ch4 (3) Formulating Linear Programming Models 4 Ch4 (3) Formulating Linear Programming Models 5 Ch9 (2) Formulating Integer Programming Models 6 First Exam 7 National Holiday 8 Ch4 (2) Solving Linear Programming Problems: the Simplex Method 9 Ch4 (2,4) The Simplex Method 10 Ch4 (2,4) The Simplex Method 11 Ch4 (2,4) The Simplex Method 12 Ch6 (2,4) Sensitivity Analysis and Duality 13 Second Exam 14 Ch8 (2,4) Transportation, Assignment, and Transshipment Problems 15 Ch8 (2,4) Transportation, Assignment, and Transshipment Problems 16 Ch9 (2,4) Network Models 17 Ch9 (2,4) Network Models 18 Final Exam 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.
上課進度 Weekly Course Schedule	Week Chapter Subjects and Assignments 1 Ch1 (2) Introduction to Operations Research 2 Ch4 (3) Formulating Linear Programming Models 3 Ch4 (3) Formulating Linear Programming Models 4 Ch4 (3) Formulating Linear Programming Models 5 Ch9 (2) Formulating Integer Programming Models

	6 First Exam 7 National Holiday 8 Ch4 (2) Solving Linear Programming Problems: the Simplex Method 9 Ch4 (2,4) The Simplex Method 10 Ch4 (2,4) The Simplex Method 11 Ch4 (2,4) The Simplex Method 12 Ch6 (2,4) Sensitivity Analysis and Duality 13 Second Exam 14 Ch8 (2,4) Transportation, Assignment, and Transshipment Problems 15 Ch8 (2,4) Transportation, Assignment, and Transshipment Problems 16 Ch9 (2,4) Network Models 17 Ch9 (2,4) Network Models 18 Final Exam 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.
教學方式 Instructional Method	Lectures and Case Study
課程要求 Course Requirements	1. Homework, Cases and Reports 25% 2. Three Exams 75%
評量方式 Evaluation	1. Homework, Cases and Reports 25% 2. Three Exams 75%
教材及參考書目 Textbooks & Suggested Materials	Text Books 1. F.S. Hillier M.S. Hillier K. Schmeder and M. Stephens Introduction to Management Science Fourth Edition McGraw Hill 2011. 2. W. L. Winston, Operations Research, Fourth Edition, Brooks/Cole, 2004. 3. R. L. Rardin, Optimization in Operations Research, Prentice 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	

申請教師簽章：＿＿＿＿＿＿＿＿＿　　開課單位主管簽章：＿＿＿＿＿＿＿＿＿＿