Syllabus of Optimization Method 最適化方法

2008 年 fall

修課對象: 工管系二年級以上或商研所

上課時間: 星期一下午 2:20 p.m. to 5:20 p.m.　上課地點：管院二館 302 教室

授課教師: 蔣明晃, 管院二館 802　　聯絡電話: 33661053

網站：140.112.110.2　e-mail: cmh@ntu.edu.tw

課程計分方式:

平時作業: 30%　　第一次期中考試: 35%　　期末考試: 35%

課本:

Winston, W. L., Operations Research: Applications and Algorithms, 4th edition, Thomson Learning 新月書局代理（電話：23317856）.

Date	Topic	Chapter
09/15	Introduction, Brief review of linear algebra	1.1-1.2, 2.1-2.6
09/22	Linear Programming (Simplex Method)	4.1-4.8
09/29	Simplex Method	4.11-4.14
10/06	Goal Programming and Revised Simplex Algorithm	4.16, 10.1-10.2
10/13	Sensitivity Analysis	5.1-5.4
10/20	Sensitivity Analysis & Duality	6.1-6.7
10/27	Sensitivity Analysis & Duality	6.7-6.11
11/03	Midterm (cover 4, 5, 6, 10.1-10.2)	
11/10	Transportation, Assignment & Transshipment	7.1-7.6
11/17	Network Models	8.1-8.4
11/24	Network Models	8.5-8.7
12/01	Integer Programming	9.1-9.5
12/08	Nonlinear Programming	11.2-11.4
12/15	Nonlinear Programming	11.5-11.7
12/22	Nonlinear Programming	11.8-11.9
12/29	Deterministic Dynamic Programming	18.2-18.4
01/05	Deterministic Dynamic Programming	18.5-18.6
01/12	Final Exam (cover 7, 8, 9, 11,18)	