

多目標決策
(Multiple Objective Decision Making)
九十六學年度第二學期)

INSTRUCTOR: Ching-Ter Chang(張錦特)

CLASS TIME:

OFFICE HOURS:

PLACE:

OFFICE:

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OBJECTIVES:

The objective of this course is to introduce the Multiple Objective Decision Making by using several different methods to solve multiple objective problems in the fields of management and decision. The focus of this course will be theory and practice oriented and therefore how to use related techniques, such as the probability, decision analysis, forecasting, inventory control, linear programming, goal programming, integer programming, simulation modeling, vector spaces and so on, is required in this course.

TEXTBOOK:

1. Lai, Y-J and Hwang, C-L. Fuzzy Multiple Objective Decision Making – Methods and Applications, Springer-Verlag (1994)
2. Tatrucanon, M.T., Multiple criteria decision making in industry, Elsevier (1988)

REFERENCES

- Selected journal papers

EXAMS & GRADING

Quizzes	30%
Final Report & Term Paper (Try to send a SCI/SSCI journal, if it is good)	70%

<u>Week</u>	<u>TOPIC</u>	<u>ITEM</u>
1	Introduction to multiple objective problems	
2	Foundamentals of multicriterion optimization	
3	Decision analysis	
4	MCDM applications in production management	
5	Goal programming	
6	Inventory control models	
7	Paper reading	
8	Paper reading	
9	Paper reading	
10	Integer programming goal	
11	Network models	
12	Selected journal papers	
13	Advance goal programming	
14	Selected journal papers	
15	Simulation modelling	
16	Student reports	
17	Student reports	
18	Student reports	