朝陽科技大學 098學年度第2學期教學大綱
Multiple Criteria Decision Making 多準則決策

當期課號	7394	Course Number	7394
授課教師	張景榮	Instructor	CHANG,JING RONG
中文課名	多準則決策	Course Name	Multiple Criteria Decision Making
開課單位	資訊管理系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程主要介紹面對多準則決策時，所採用的多準則決策方法以及一些應用的案例。在單一決策問題架構下，根據決策環境與條件的說明，繼而說明決策者與分析者在相對問題中所扮演的角色，最後分析的方法則透過案例解說的方式幫助學生有深入的了解。	Objectives	This course will introduce a series of multiple criteria decision making (MCDM) methods and applications. The goal of this course is to help students gain a deep practical and theoretical insight into the MCDM methods, so as to correctly apply them to solve complex decision making problems. There are two main streams of MCDM: 1. Multi-Objective Decision Making, which assumes continuous solution spaces and tries to determine optimal compromise solutions. 2. Multi-Attribute Decision Making, which solves problems with countable few decision alternatives and basically uses approaches from discrete mathematics. The main focus of this course is on the Multi-Attribute Decision Making stream and few approaches in Multi-Objective decision Making. Team works and real case studies will be emphasized in assignments and final term project.
教材	暫列下列參考書目： 1. K. Yoon and C.L. Hwang (1995), Multiple Attribute Decision Making: An Introduction. Sage Pub., Thousand Oaks, CA. 2. C.L. Hwang and M.J. Lin (1987), Group Decision Making under Multiple Criteria- Methods and Applications. Springer-Verlag, Berlin. 3. C.L. Hwang and A.S.M. Masud (1979), Multiple Objective Decision Making- Methods and Applications. Springer-Verlag, Berlin. 4. C.L. Hwang and K. Yoon (1981), Multiple Attribute Decision Making- Methods and Applications. Springer-Verlag, Berlin. 5. S.J. Chen and C.L. Hwang (1992), Fuzzy Multiple Attribute Decision Making: Methods and Applications. Springer-Verlag, Berlin. 6. Y.J. Lai and C.L. Hwang (1994), Fuzzy Multiple Objective Decision Making: Methods and Applications. Springer-Verlag, Berlin. 7. 許志義，多目標決策(第二版)，2003，五南圖書，台北。 8. 張保隆、周瑛琪、翁振益著，決策分析:方法與應用，2007，華泰文化。 9. Other journals papers, Theses, and additional information.	Teaching Materials	1. K. Yoon and C.L. Hwang (1995), Multiple Attribute Decision Making: An Introduction. Sage Pub., Thousand Oaks, CA. 2. C.L. Hwang and M.J. Lin (1987), Group Decision Making under Multiple Criteria- Methods and Applications. Springer-Verlag, Berlin. 3. C.L. Hwang and A.S.M. Masud (1979), Multiple Objective Decision Making- Methods and Applications. Springer-Verlag, Berlin. 4. C.L. Hwang and K. Yoon (1981), Multiple Attribute Decision Making- Methods and Applications. Springer-Verlag, Berlin. 5. S.J. Chen and C.L. Hwang (1992), Fuzzy Multiple Attribute Decision Making: Methods and Applications. Springer-Verlag, Berlin. 6. Y.J. Lai and C.L. Hwang (1994), Fuzzy Multiple Objective Decision Making: Methods and Applications. Springer-Verlag, Berlin. 7. 許志義，多目標決策(第二版)，2003，五南圖書，台北。 8. 張保隆、周瑛琪、翁振益著，決策分析:方法與應用，2007，華泰文化。 9. Other journals papers, Theses, and additional information.
	1. 課堂表現與出席 2. 期中考		1. Classroom performance and attendance

成績評量方式	3. 英文期刊論文報告	**Grading**	2. Mid-term 3. Reports of the English journal articles
教師網頁			
教學內容	本課程旨在介紹決策的概念、偏好、及相關理論；並以方法爲導向，引介多屬性決策與多目標決策中具代表性之方法；再將以上方法應用到實務問題，並強調與不同理論結合在決策之應用，使同學具備決策分析之整體概念與解決問題工具。	**Syllabus**	This course aims to introduce the concept, preferences, and related theories of decision-making. It also introduces the well-known methods about multi-attribute decision making and multi-objective decision-making. Then, the above methods will be applied to practical problems, and stressed the combination of different theories in decision-making of the application. Wish that students could have the overall concept of decision analysis and fomilar with the problem-solving tools.

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