

**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	<p>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。</p>	Objectives	<p>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.</p>
教材	<p>暫列下列參考書目：</p> <ol style="list-style-type: none"> <li>1. K. Yoon and C.L. Hwang (1995), Multiple Attribute Decision Making: An Introduction. Sage Pub., Thousand Oaks, CA.</li> <li>2. C.L. Hwang and M.J. Lin (1987), Group Decision Making under Multiple Criteria- Methods and Applications. Springer-Verlag, Berlin.</li> <li>3. C.L. Hwang and A.S.M. Masud (1979), Multiple Objective Decision Making- Methods and Applications. Springer-Verlag, Berlin.</li> <li>4. C.L. Hwang and K. Yoon (1981), Multiple Attribute Decision Making- Methods and Applications. Springer-Verlag, Berlin.</li> <li>5. S.J. Chen and C.L. Hwang (1992), Fuzzy Multiple Attribute Decision Making: Methods and Applications. Springer-Verlag, Berlin.</li> <li>6. Y.J. Lai and C.L. Hwang (1994), Fuzzy Multiple Objective Decision Making: Methods and Applications. Springer-Verlag, Berlin.</li> <li>7. 許志義，多目標決策(第二版)，2003，五南圖書，台北。</li> <li>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。</li> <li>9. Other journals papers, Theses, and additional information.</li> </ol>	Teaching Materials	<ol style="list-style-type: none"> <li>1. K. Yoon and C.L. Hwang (1995), Multiple Attribute Decision Making: An Introduction. Sage Pub., Thousand Oaks, CA.</li> <li>2. C.L. Hwang and M.J. Lin (1987), Group Decision Making under Multiple Criteria- Methods and Applications. Springer-Verlag, Berlin.</li> <li>3. C.L. Hwang and A.S.M. Masud (1979), Multiple Objective Decision Making- Methods and Applications. Springer-Verlag, Berlin.</li> <li>4. C.L. Hwang and K. Yoon (1981), Multiple Attribute Decision Making- Methods and Applications. Springer-Verlag, Berlin.</li> <li>5. S.J. Chen and C.L. Hwang (1992), Fuzzy Multiple Attribute Decision Making: Methods and Applications. Springer-Verlag, Berlin.</li> <li>6. Y.J. Lai and C.L. Hwang (1994), Fuzzy Multiple Objective Decision Making: Methods and Applications. Springer-Verlag, Berlin.</li> <li>7. 許志義，多目標決策(第二版)，2003，五南圖書，台北。</li> <li>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。</li> <li>9. Other journals papers, Theses, and additional information.</li> </ol>
	<ol style="list-style-type: none"> <li>1. 課堂表現與出席</li> <li>2. 期中考</li> </ol>		<ol style="list-style-type: none"> <li>1. Classroom performance and attendance</li> </ol>

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；並以方法為導向，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 familiar with the problem-solving tools.

尊重智慧財產權，請勿非法影印。