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②國玄東華大學

課 網 Course Outline

資訊工程學系國際組

中文課程名稱 Course Name in Chinese		資料探勘					
英文課程名稱 Course Name in English		Data Mining					
科目代碼 Course Code		CSIEM0240	班 別 Degree	碩士班 Master's			
修別 Type		選修 Elective	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite							
課程目標 Course Objectives							
Introduce the purpose, principles, methods and applications of data mining							
1	探究學科知識,善用專業技能 Explore academic knowledge, utilize professional skills.						
2	訓練評析思考,創新解決問題 Exercise analytical thinking, enhance creative problem solving skills.						
3	學習團隊分工,強化溝通表達 Participate in teamwork, strengthen communication skills.						
系專業能力 Basic Learning Outcomes					力相關性 Correlat between Objectiv Dept.'s	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives	
A	統合資工知識技術之能力 Ability to integrate knowledge and technologies of computer science and information engineering.					•	
В	設計技術理論驗證實驗之能力 Ability to design and conduct science experiments and to validate hypotheses.					0	
С	資訊軟硬體設計開發之能力 Ability to design and develop computer software and hardware.						
D	團隊專案開發之能力 Ability to design and develop team projects.						

批判性思考與創新研發之能力

Ability of analytical thinking, creative research planning, and innovative development.

圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated

課程大綱

Course Outline

- 1. Introduction
- 2. Data preprocessing
- 3. Data mining methods
- -Association rules mining
- -Classification and prediction
- -Cluster analysis
- 4. Applications and trends in data mining

資源需求評估(師資專長之聘任、儀器設備的配合・・・等)

Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

Existing suitable full-time teachers

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

Class lectures, assignments, lab sessions and term project

其他

Miscellaneous