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②国玄東華大學

課 網 Course Outline

資訊工程學系資工組

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		CS1E58600	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		無					
課程目標 Course Objectives							
Course Objectives 介紹資料探勘的目的,原理,方法以及其應用。							
系教育目標							
Dept.'s Education Objectives							
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	
統合資工知識技術之能力 A 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	
C	C 資訊軟硬體設計開發之能力 Ability to design and develop computer software and hardware.						
D	B 图						

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

Chapter 1. Introduction

Chapter 2. Data warehouse and OLAP technology for data mining

Chapter 3. Data preprocessing

Chapter 4. Knowledge representation

Chapter 5. Concept description

Chapter 6. Association rules mining

Chapter 7. Sequential and periodic patterns mining

Chapter 8. Classification and prediction

Chapter 9. Cluster analysis

Chapter 10. Mining complex types of data

Chapter 11. Applications and trends in data minin

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

進行方式:

課堂講授討論

教學要求:

- 1. 相關研究之研讀討論
- 2. 學生需完成Homework
- 3. 學生需經過筆試測

其他

Miscellaneous