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②国玄東華大學

課 網 Course Outline

資訊管理學系一般組

中文課程名稱 Course Name in Chinese		高等資料庫管理系統					
英文課程名稱 Course Name in English		Advanced Database Management System					
科目代碼 Course Code		IM50180	班 別 Degree		碩士班 Master's		
修別 Type		必修 Required	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite		資料庫管理					
課程目標 Course Objectives							
(1) 培養學生將來進一步探討資料庫相關領域之研究的能力 (2) 訓練學生將來有能力成為 "完全內行" 的高級資料庫管理師(DBA)							
系教育目標 Dept.'s Education Objectives							
1	培育具備資訊技術解決問題思維能力之高級人才 Cultivate senior personnel with the capability of information technology to solve problems with thinking skills						
2		析為核心,培育具有高度專業能力之技術人才 professional personnel with the capability of information technology					
3	Cultivate senior	以管理為對象,培育具有創新、研發、企劃整合能力之高級人才 Cultivate senior personnel with the capability of innovation, research and levelopment and integrated planning					
4	提供數位內容、電子商務與知識管理所需之人才 Cultivate personnel with the capability of digital content, electronic commerce and knowledge management						
5	培育符合國家與區域發展所需之資訊管理人才 Cultivate information management personnel to meet the needs of national and regional development						
系專業能力 Basic Learning Outcomes					力相關性 Correlat between Objectiv	ion Course es and	
A	Nurture ability	考能力、服務精神、團隊 regarding creativity k and international v	and thinking		Objectiv	Education es	

В	培養具備資訊專業知識與技能 Nurture professional ability and skill regarding information	0					
С	培養具備資訊科技與管理領域之知識整合應用能力 Nurture integrated ability regarding information technology and management	0					
D	培養具備解決問題之資訊剖析、組織、整合、應用以及表達的能力 Nurture ability of information analysis, organization, integration, application, and expression regarding problem solving	0					
Е	培養具備獨立研究、領導智能與資訊創新的能力 Nurture ability regarding independent research, leadership and information innovation	0					
圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated							
課程大綱 Course Outline							
Unit 1: Introduction to DBMS Unit 2: DB2 and SQL Unit 3: The Relational Model Unit 4: The Hierarchy Model Unit 5: The Network Model Unit 6: File Organization and Access Methods Unit 7: Logical Database Design Unit 8: Database Recovery Unit 9: Concurrency Control Unit 10: Security and Integrity Unit 11: Query Optimization Unit 12: Distributed Database							
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.)							
具資訊管理專長之教師與DBMS開發工具							
課程要求和教學方式之建議							
Course Requirements and Suggested Teaching Methods							
課堂授課與程式作業 其他							
Miscellaneous							
	参考書目: 1. Lecture Notes (edited by Prof. Wei-Pang Yang) 2. C. L. Data. "An Introduction to Patabase Systems" 2th edition 2004						

- 2. C. J. Date, "An Introduction to Database Systems," 8th edition, 2004. 3. Cited papers.