



課 綱 Course Outline

管理學院會計與資訊管理國際學士班學士班

中文課程名稱 Course Name in Chinese	資料庫管理				
英文課程名稱 Course Name in English	Database Management				
科目代碼 Course Code	ACIM20060	班 別 Degree	學士班 Bachelor' s		
修別 Type	學程 Program	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite					
課程目標 Course Objectives					
Databases are the foundation of any information system. In the field of data processing, database analysis and management are two crucial topics. This course will explain the design principles of databases and demonstrate how database analysis can be used to meet information needs, equipping students with basic analytical and management skills for developing database systems. The methods discussed are independent of any packaged software; the primary focus is on enabling students to understand how to plan and design database architectures that meet requirements and standards.					
系教育目標 Dept.' s Education Objectives					
1	培養結合理論與實務之會計資訊專業人才				
2	培養多元視野與跨領域整合能力之會計資訊專業人才				
3	培養專業能力與品德操守並重之會計資訊專業人才				
系專業能力 Basic Learning Outcomes				課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.' s Education Objectives	
A	兼具會計資訊理論與實務操作及專業知識，具備跨領域解決問題能力				●
B	具有良好之會計資訊理論基礎與分析能力，具備相關領域升學或就業之知識與能力				○

C	具備以資訊技術協助企業運作與商業管理之知識與應用能力	●
D	具有會計資訊、風險控管、電腦審計與稅務整合能力	○
E	具備超然獨立並嚴格遵守會計資訊專業倫理的道德勇氣	○
F	具備團隊合作、國際視野、創造性思考及良好的外語能力	○

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

課程大綱
Course Outline

PART 0 BASIC CONCEPTS
Chapter 0: Overview
Chapter 1: Introduction
PART 1 RELATIONAL DATABASES Chapter 2: Relational Model Chapter 3: SQL
Chapter 4: Advanced SQL Chapter 4(附錄): DB2 and SQL
PART 2 DATABASE DESIGN
Chapter 6: Database Design and the E-R Model
Chapter 7: Relational Database Design
PART 4 DATA STORAGE AND QUERYING
Chapter 11: Storage and File Structure
Chapter 12: Indexing and Hashing

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
期中考:30% 期末考:30% 程式作業練習:40%

其他
Miscellaneous

參考書目:
1. Lecture Notes (edited by Prof. Wei-Pang Yang)
2. A. Silberschatz, etc. "Database System Concepts," 5th ed., 2006.