# ②國玄東華大學

## 課 綱 Course Outline

#### 企業管理學系博士班資訊管理組

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	BM80300	班 別 Degree	博士班 Ph. D.			
修別 Type	選修 Elective	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite	資料庫管理					
细印口描						

#### 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 培育具備資訊技術解決問題思維能力之高級人才

- 1 Cultivate senior personnel with the capability of information technology to solve problems with thinking skills
- 2 以資訊技術為核心,培育具有高度專業能力之技術人才 Cultivate professional personnel with the capability of information technology
- 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
- 3 Cultivate senior personnel with the capability of innovation, research and development and integrated planning

提供數位內容、電子商務與知識管理所需之人才

4 Cultivate personnel with the capability of digital content, electronic commerce and knowledge management

培育符合國家與區域發展所需之資訊管理人才

5 Cultivate information management personnel and regional to meet the needs of national development

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	培育具備資訊管理相關理論與應用的知識 Cultivate the knowledge of information management application	
В	培育具備邏輯推演、問題解決與獨立研究的能力 Cultivate the capability of logical deduction, problem solving and independent research	•
С	培養具備資訊專業知識與技能 Cultivate the professional ability and skill regarding information	•
D	培養具備資訊科技與管理領域之知識整合應用能力 Cultivate the integrated ability regarding information technology and management	•
E	培養具備創新思維、領導智能與國際觀的能力 Cultivate the ability regarding innovative thinking, leadership and international view	•

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

1. 課堂授課與程式作業2. 評分標準- 期中考:30%, 期末考:30%, 程式作業練習:40%

#### 其他

#### Miscellaneous

- 1. Lecture Notes (edited by Prof. Wei-Pang Yang)
- 2. C. J. Date, "An Introduction to Database Systems," 8th edition, 2004.
- 3. Cited papers.