103 學年度　　商學院 英語授課課程大綱

課程名稱 Course Title ☑模組 □個別	(中文) 高等資料庫管理
	(英文) Advanced Database Management and System
課程目標 Course Objectives	The objective of this course is to study the essential concepts and techniques of database systems and data warehousing. At the end of the semester, students are expected to understand the concepts and logical design of database, and respond to business requirements using SQL. Other than operational data, students are expected to design a multidimensional model which provides support for a historical perspective of what happened in and around the company. Environment outside a company also influences a firm's business decisions. Students are expected to be aware of how external information is extracted from social media using the recent development of big data analytics.
課程大綱 Course Description	This course will provide the students with an overview of database management including relational database design, database manipulation, and database administration. To provide a comprehensive view of a company, concepts of data warehouse and analyses of the historical perspective and other important dimensions are also introduced. Unstructured data like emails and social media responses are briefly discussed using IBM solutions.
上課進度 Weekly Course Schedule	1. Relational model of data 2. Entity relationship model of data 3. Design of relational database 4. SQL: definition and modification 5. SQL: queries 6. SQL: views 7. DB2 architecture and database administration 8. Transaction processing 9. Overview of data warehouse 10. Multidimensional data modeling 11. Cases of business analytics 12. Big Data overview: IBM Infosphere BigInsight
教學方式 Instructional Method	In-class lecture
課程要求 Course Requirements	Students need to attend the classes and will be assigned homework, group projects, and exams.
評量方式 Evaluation	Exam: 25% Assignments:35% Group project: 30% Paricipation:10%
教材及參考書目 Textbooks & Suggested	TBA

Materials	
課程相關 連結網址 Course Website	
備註 Remarks	

申請教師簽章：　　　　　　　開課單位主管簽章：✓　資管系系主任陳春龍