

# 個別課程英文授課大綱

表單編號：QP-T02-07-11

保存年限：10 年

課程名稱 Course Title	(中文) 高等資料庫管理		
	(英文) Advanced Database Management and System		
授課教師 Instructor	周彥君老師	開課單位 Departments	資管系
學分數 Credit(s)	3	修課對象 Target Students	碩士班一年級
課程目標 Course Objectives	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.		
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	<ol style="list-style-type: none"> <li>1. Relational model of data</li> <li>2. Entity relationship model of data</li> <li>3. Design of relational database</li> <li>4. SQL: definition and modification</li> <li>5. SQL: queries</li> <li>6. SQL: views</li> <li>7. DB2 architecture and database administration</li> <li>8. Transaction processing</li> <li>9. Overview of data warehouse</li> <li>10. Multidimensional data modeling</li> <li>11. Cases of business analytics</li> <li>12. Big Data overview: IBM Infosphere BigInsight</li> </ol>		
教學方式 Instructional Method	In-class lecture		
課程要求 Course Requirements	Pre-requisite: introduction of database management		
評量方式 Evaluation	<ul style="list-style-type: none"> <li>- Exam: 32%</li> <li>- HW: 30%</li> <li>- Group project: 32%</li> <li>- Participation: 6%</li> </ul>		
教材及參考書目 Textbooks & Suggested Materials	<p><i>Database Systems, A Practical Approach to Design, Implementation, and Management (5th edition)</i> by Thomas Connolly and Carolyn , Addison-Wesley, 2010.</p> <p><i>The Data Warehouse Toolkit: The Complete Guide to Dimensional Modeling (3<sup>rd</sup> edition)</i> by Ralph Kimball and Margy Ross, Wiley,</p>		

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	2013.
課程相關 連結網址 Course Website	TBA
備註 Remarks	