

朝陽科技大學 092學年度第2學期教學大綱  
Data Mining 資料探勘

當期課號	7590	Course Number	7590
授課教師	李金鳳	Instructor	LEE,CHIN FENG
中文課名	資料探勘	Course Name	Data Mining
開課單位	資訊管理系碩士在職專班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程在導引學生了解何謂資料倉儲(Data Warehouse)系統、資料探勘以及它的應用，資料探勘應用包括預測(Prediction)、分類(Classification)、群聚(Clustering)以及關聯規則(Association rules)之採掘等範圍。	Objectives	An introduction to data mining and data warehousing: motivation and applications. Basic data warehousing technology: data cube methods, data warehouse construction and maintenance. Basic data mining techniques: characterization, association, classification, clustering, and similarity-based mining. Advanced data mining applications: mining relational and transaction data, mining time-related data, spatial data mining, textual data mining, multimedia data mining, visual data mining, and Web mining.
教材	課堂講授、課堂研討報告、課外作業及專題。	Teaching Materials	Sliders and Handouts is used to introduce the basic concepts and methods. Students are required to present a journal paper during this course. Several homeworks are assigned. Final project about the data mining topic is required.
成績評量方式	作業+報告+平時表現(出席率+上課Q&A)+其他(up to 53%)、期中與期末考試(35%)、期末計畫書+專題報告+期末專題文件(up to 12%)。	Grading	Presentation+numbers of question+Assignments + Class presentation (up to 53%), Midterm &Final terms(up to 35%), Project and project documentation (up to 12%)。
教師網頁	-		
教學內容	<p>TOPICS:</p> <ul style="list-style-type: none"> <li>□ An introduction to data mining and data warehousing: motivation and applications.</li> <li>□ Basic data warehousing technology: data cube methods, data warehouse construction and maintenance.</li> <li>□ Basic data mining techniques: characterization, association, classification, clustering, and similarity-based mining.</li> <li>□ Advanced data mining applications: mining relational and transaction data, mining time-related data, spatial data mining, textual data mining, multimedia data mining, visual data mining, and Web mining.</li> </ul>	Syllabus	<p>OBJECTIVE/DESCRIPTION:</p> <p>Data Mining and Knowledge Discovery has become an active area of research, attracting people from several disciplines, including database systems, statistics, information retrieval, pattern recognition, AI/machine learning, and data visualization.</p> <p>The course will introduce data mining and data warehousing, and study their principles, algorithms, implementations, and applications.</p>

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