朝陽科技大學 095學年度第2學期教學大綱
Data Mining 資料探勘

當期課號	7771	Course Number	7771
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	Data Mining: Concepts and Techniques, Jiawei Han and Micheline Kamber , Morgan Kaufmann Pub., 2000. Data Mining: Introductory and Advanced Topics, Dunham, Prentice Hall, 2002. Selected Journal or Conference Papers REFERENCES: Some recent conference/journal paper collection, (class distribution).	Teaching Materials	
成績評量方式	作業+報告+平時表現(出席率+上課Q&A)+其他、期中與期末考試、期末計畫書+專題報告+期末專題文件)。	Grading	Presentation+numbers of question+Assignments + Class presentation Midterm &Final termsProject and project documentation。
教師網頁	_		
教學內容	TOPICS: □ 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.	Syllabus	OBJECTIVE/DESCRIPTION: 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. The course will introduce data mining and data warehousing, and study their principles, algorithms, implementations, and applications.

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