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	7069	**Course Number**	7069
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 introduct the basic concepts and methods. Students are required to present a journal paper during this course. Severl 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	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.