朝陽科技大學 093學年度第2學期教學大綱
Decision Support System 決策支援系統

當期課號	1270	Course Number	1270
授課教師	田方治	Instructor	TIEN,FANG CHIH
中文課名	決策支援系統	Course Name	Decision Support System
開課單位	工業工程與管理系(四日)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	介紹決策支援系統之基本架構與觀念：包括決策、資料與資料庫管理、模式與模式庫管理，與使用者介面。另對群組決策支援系統（GDSS）與企業資訊系統（EIS）做一簡介。	Objectives	To teach students about the basic concept and the architecture of a DSS, including Decision and Decision Making, Data and Database Management, Models and .Model Base Management, and User Interface. Special topics on GDSS, EIS, and Expert System are also given.
教材	Efraim Turban, Jay E. Aronson, “Decision Support Systems and Intelligent Systems,” Prentice Hall International Inc.	Teaching Materials	
成績評量方式	Lab與case study 50% 課堂參與及出席 10% Micss Project 20% Project 20%	Grading	Lab and case study 50% Attendance 10% Micss Project 20% Project 20%
教師網頁	_		
教學內容	本課程之目的在講授決策支援系統之基本架構及主成要件,並加入其決策分析之現行方法如類神經網路,遺傳演算法等. Lab及Case Study 本課程將包括3份Case Study及4份Lab，以分組討論於當日課程後進行，其Assignment於指定時間上課前繳，愈時以零分計算。Case Study及Lab 內容如下： Lab 1: AHP Lab 2: Neural networks (NeuralShell) Lab 3: Genetic Algorithms (Evolver or 其他軟體) Lab 4: Expert System (Exsys) Case Study I: Roadway Package System Case Study II: How to invest $10 Million Case Study II: Personal Computer DIY 課堂參與及出席 課堂參與及出席爲主觀之評分，如課堂發表及討論積極者，則卓情加分。 期中及期末考 期中考於本學期之第12週(or第15週)舉行，考試形式另訂之，無期末考。 Project I – (20%) 以Micss 之系統學習於ERP模擬系統作群體決策，以三人一組，於第九週作口頭報告，並撰寫書面報告一份，評分方式爲各50%。 Project II - (20%) 依與課人數分組，每組自選DSS相關主題或Case study，於資料蒐集、閱讀，撰寫報告(頁數不限)，並於期末繳交完整報告及參考資料(與磁碟)一份，並於第十二週起做分組簡報。	Syllabus	Decision Support System (DSS) has been an important development in computer area technology. The system is built for helping human making a sincere decision. The objective of this course is to let students realize the basic configuration and components of a DSS. The topics covered in this course include the component of a DSS, data mining, AHP, the basic artificial approaches such as Development of a DSS, intelligent system:(Expert system, Genetic Algorithms, Neural networks, Fuzzy logics) and other rule, case, or data-based driven decision support systems.

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