朝陽科技大學 099學年度第1學期教學大綱
Programming for Environmental Systems 環境程式設計

當期課號	1736	Course Number	1736
授課教師	張迪惠	Instructor	CHANG,DYI HUEY
中文課名	環境程式設計	Course Name	Programming for Environmental Systems
開課單位	環境工程與管理系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	這門課教導如何應用 MATLAB來解決環境問題。 這十八星期的課程可分成三個互相聯繫的單元：單元一：MATLAB的基本功能，包括MATLAB的基本操作，內建函數，矩陣與陣列運算等。 單元二：MATLAB在工程、科學、統計學、和數學上的應用，並了解迴圈以及子程式。 單元三：藉由不同的環境問題來熟悉程式的撰寫技術。	Objectives	This course illustrates how to apply MATLAB in solving environmental problems. The eighteen-week lesson can be divided into three complementary sessions:Session 1, Fundamental feature of MATLAB: Students will understand basic operational tools, built-in functions, the concept of Array, and the use of Files. Session 2, Students will learn problem-solving methodology in engineering, science, statistics, and mathematics. The use of looping and sub-routine is explained herein. Session 3, Students will familiarize programming skill through various stand-along cases. Most cases are related to environmental issues.
教材	J. Palm III, William “Introduction to MATLAB 6 for Engineers”, McGraw-Hill, Singapore, 2001. ISBN 0-07-118178-4 (滄海書局代理)	Teaching Materials	J. Palm III, William “Introduction to MATLAB 6 for Engineers”, McGraw-Hill, Singapore, 2001. ISBN 0-07-118178-4
成績評量方式	1.作業 (90%) 2.出席率與上機操作表現 (10%)	Grading	1.Homework (90%) 2.Participation and Computer-based practices (10%)
教師網頁			
教學內容	這門課教導如何應用 MATLAB來解決環境問題。 這十八星期的課程可分成三個互相聯繫的單元： 單元一： MATLAB的基本功能，包括MATLAB的基本操作，內建函數，矩陣與陣列運算等。 單元二：MATLAB在工程、科學、統計學、和數學上的應用，並了解迴圈以及子程式。 單元三：藉由不同的環境問題來熟悉程式的撰寫技術。	Syllabus	This course illustrates how to apply MATLAB in solving environmental problems. The eighteen-week lesson can be divided into three complementary sessions: Session 1, Fundamental feature of MATLAB: Students will understand basic operational tools, built-in functions, the concept of Array, and the use of Files. Session 2, Students will learn problem-solving methodology in engineering, science, statistics, and mathematics. The use of looping and sub-routine is explained herein. Session 3, Students will familiarize programming skill through various stand-along cases. Most cases are related to environmental issues.

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