朝陽科技大學 099學年度第1學期教學大綱
Engineering Mathematics (III) 工程數學(三)

當期課號	1538	Course Number	1538
授課教師	余志鵬	Instructor	YU,CHIH PENG
中文課名	工程數學(三)	Course Name	Engineering Mathematics (III)
開課單位	營建工程系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	介紹工程分析之進階主題，主要範圍包括批偏微分方程、傅立葉分析以及向量微積分。強調對各種工程實際問題建立數學模式以及解析。	Objectives	This course covers the advanced topics of engineering analysis. Selected topics from partial differential equations, Fourier analysis, and vector calculus are introduced. Content is correlated with topics on other engineering courses and applications. For good achievement, students need to have solid background from previous mathematics courses.
教材	Advanced Engineering Mathematics 8th ed. by Kreyszig	Teaching Materials	Main Text : Advanced Engineering Mathematics by Kreyszig Solver packages : MATLAB
成績評量方式	筆試(期中考+期末考) 40% 上機考試 25% 平時測驗 25% 學習態度 10%	Grading	Written exams.:40% MATLAB exercises:25% course quiz:25% learning altitude:10%
教師網頁	http://www.cyut.edu.tw/~cpyu		
教學內容	使學生了線性代數之應用，偏微分方程及其土木工程上之應用。	Syllabus	It provides sudents with knowledge of application of linear algebra to civil engineering, Partial differential eqaution and their application to civil engineering. Starting 2010, computer Lab practices/demos with Matlab software are included in the last quarter of the course.

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