朝陽科技大學 091學年度第1學期教學大綱
Engineering Mathematics(I) 工程數學(一)

當期課號	1058	Course Number	1058
授課教師	王淑娟	Instructor	WANG,SHU CHUAN
中文課名	工程數學(一)	Course Name	Engineering Mathematics(I)
開課單位	營建工程系(四日)二B	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	介紹工程分析之基本觀念，主要範圍包括常微分方程、可變係數方程式之級數解以及拉普拉斯轉換。強調對各種工程實際問題建立數學模式以及解析。積分能力爲良好學習效果之基礎。	Objectives	As a first course in its series, this course covers the basic concept of engineering analysis. Selected topics from ordinary differential equations, series expansion method for variable-coefficient equations, and Laplace transform are introduced. Content is correlated with topics on other engineering courses and applications.
教材	課堂授課及作業	Teaching Materials	Notes and Homeworks
成績評量方式	期中考20%期末考20% 平時成績及小考 50% 學習態度 10%	Grading	mid-term exam.:20% final exam.:20% quiz:50% learning altitude:10%
教師網頁	_		
教學內容	使學生了解一階及高階常微分方程式及求解，正交函數原理，傅利葉法與應用，拉普拉斯轉換等	Syllabus	It provides sudents with knowledge of solving First-order and Higher-order ordinary diffential equation, theorem of Orthogonal Function, Fourier Series and Integral and Laplace Transform.

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