

朝陽科技大學 099學年度第1學期教學大綱
Engineering Mathematics(I) 工程數學(一)

當期課號	2571	Course Number	2571
授課教師	洪玲隆	Instructor	HUNG,HO LUNG
中文課名	工程數學(一)	Course Name	Engineering Mathematics(I)
開課單位	資訊與通訊系(四日)二A	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。	Objectives	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	Dennis G. Zill and Michael R. Cullen, Differential Equations with Boundary-Value Problems, Brooks/Cole Publishing Company/seventh edition (歐亞書局代理)	Teaching Materials	Dennis G. Zill and Michael R. Cullen, Differential Equations with Boundary-Value Problems, Brooks/Cole Publishing Company/seventh edition
成績評量方式	1.期中考(30%) 2.期末考(30%) 3.小考(20%) 4.作業(10%) 5.出席率(10%)	Grading	1. Midterm Exam (30%) 2. Final Exam (30%) 3. Quiz (20%) 4. Homework (10%) 5. Attendance (10%)
教師網頁	http://www.cyut.edu.tw/~hlyiang/		
教學內容	1. 一階常微分方程式 2. 二階線性常微分方程式 3. 高階線性常微分方程式 4. 拉氏轉換	Syllabus	1. First Order Ordinary Differential Equation 2. Second Order Linear Ordinary Differential Equation 3. High Order Linear Ordinary Differential Equation 4. Laplace Transform

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