

朝陽科技大學 097學年度第1學期教學大綱  
Engineering Math 工程數學

|        |  |                    |  |
|--------|--|--------------------|--|
| 當期課號   | 2764   | Course Number      | 2764   |
| 授課教師   | 梁新穎  | Instructor         | LIANG,HSIN YING  |
| 中文課名   | 工程數學   | Course Name        | Engineering Math   |
| 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   | 本課程目標在使學生們熟悉網路與通訊工程的基礎數理，諸如：線性代數、複變與機率，並安排多元化的作業及測驗安排，來訓練學生們具備數理問題的解析能力與邏輯思考方式，以奠定學生們未來修習專業課程時所需的數學基礎。   | Objectives         | This goal of this course provides students to be familiar with basic networking and mathematically engineering communication; such as linear algebra, complex variables and probability. This course also provides a variety of assignments and tests for training students with mathematical ability and logical thinking on problem solving. The content of this course 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%)<br>2.期末考(30%)<br>3.小考(20%)<br>4.作業(10%)<br>5.出席率(10%)   | Grading            | 1. Midterm Exam (30%)<br>2. Final Exam (30%)<br>3. Quiz (20%)<br>4. Homework (10%)<br>5. Attendance (10%)  |
| 教師網頁   | <a href="http://www.cyut.edu.tw/~hyliang/">http://www.cyut.edu.tw/~hyliang/</a>  |                    |  |
| 教學內容   | 1. 一階常微分方程式<br>2. 二階線性常微分方程式<br>3. 高階線性常微分方程式<br>4. 拉氏轉換   | Syllabus           | 1. First Order Ordinary Differential Equation<br>2. Second Order Linear Ordinary Differential Equation<br>3. High Order Linear Ordinary Differential Equation<br>4. Laplace Transform  |

尊重智慧財產權，請勿非法影印。