

朝陽科技大學 091學年度第2學期教學大綱  
Behavior of Reinforced Concrete member 鋼筋混凝土構件行為學

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| 當期課號   | 7009  | Course Number      | 7009  |
| 授課教師   | 干裕成   | Instructor         | KAN,YU CHENG  |
| 中文課名   | 鋼筋混凝土構件行為學  | Course Name        | Behavior of Reinforced Concrete member  |
| 開課單位   | 營建工程系碩士班一A  | Department         |   |
| 修習別    | 選修  | Required/Elective  | Elective  |
| 學分數    | 3   | Credits            | 3   |
| 課程目標   | 本課程探討進階RC理論及構件受力後之行爲，內容包括變斷面矩形樑之分析；樑之極限強度分析，包括：a.撓曲與裂縫 b.極限設計及彎矩再分配 c.握裹應力 d.破壞力學 e.扭矩；版降服線理論；特殊專題討論                                | Objectives         | The objective of this course is to teach the students about the influence of soil composition on its behavior, and let the students understand how to apply what they learned in soil behavior to general engineering practice. Topic covered in this course including: bonding, crystal structure, and surface characteristics; soil mineralogy; soil formation and soil fabric; clay-water electrolyte system; soil composition and engineering properties. |
| 教材     | 本課程講解混凝土設計及分析理論外，將於課堂中給同學提出問題討論的機會，以增加同學的興趣及學習成效。   | Teaching Materials | Recitation and homework assignment  |
| 成績評量方式 | 作業(25%)、平時考(25%)、期中考(25%)、期末考(25%)  | Grading            | Homework(25%)、quiz(25%)、midterm(25%)、final exam(25%)  |
| 教師網頁   | -   |                    |   |
| 教學內容   | 深入探討鋼筋混凝土學理論及其設計分析方法。使學生對RC理論及構件的設計與分析有進一步的理解；並透過實際案例的設計及分析演練，訓練同學熟工程實務上一般設計及分析的步驟。修完此課程之同學，應有起碼的設計與分析能力；對於日後從事RC構件之設計及分析工作，將有極大助益。 | Syllabus           | Introduction of advanced RC theorem and analysis methods. Students take this course will understand the advanced theory and applications through the exercise of homework assignments in class. They will know the design procedure that will be helpful to their future profession career.   |

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