

朝陽科技大學 093學年度第1學期教學大綱
Behavior of Reinforced Concrete member 鋼筋混凝土構件行為學

當期課號	7039	Course Number	7039
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	Design of Concrete Structures(12th ed.) 作者：Arthur H. Nilson	Teaching Materials	
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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