

朝陽科技大學 091學年度第1學期教學大綱
Reinforced Concrete Design 鋼筋混凝土學

當期課號	6016	Course Number	6016
授課教師	程運達	Instructor	YUN,TA CHENG
中文課名	鋼筋混凝土學	Course Name	Reinforced Concrete Design
開課單位	營建工程系(二進)四A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	1. 鋼筋混凝土概論(1)材料特性介紹(2)建築構架承受載重的種類2.鋼筋混凝土樑的撓曲分析與設計(1)極限強度設計法及基本假設(2) 極限強度之平衡鋼筋比(3) 單抗拉鋼筋樑分析與設計(4)抗拉及抗壓鋼筋樑分析與設計(5) T型樑分析與設計3. 鋼筋混凝土構件的剪力筋設計4.鋼筋在混凝土	Objectives	1. Introduction (1) Material property (2) Loading type 2. R. C. beams analysis and design (1) Strength design method and assumptions (2) Reinforcement ratio in balanced strain condition (3) Beam including tensile steel only (4) Beam including tensile steel
教材	1. 投影片教學 2. 抄寫筆記 3. 家庭作業	Teaching Materials	1. To teach by overhead projector. 2. To explain the contents on the blackboard. 3. To give home works.
成績評量方式	期中考(30%),期末考(35%),其他(35%)	Grading	Mid-term examination (30%), Final examination (35%), the others (35%).
教師網頁	-		
教學內容	本課程在瞭解鋼筋混凝土構件行為，並介紹相關的規範與設計實例。 1. 鋼筋混凝土概論2. 鋼筋混凝土樑的撓曲分析與設計3. 鋼筋混凝土構件的剪力筋設計4. 鋼筋在混凝土中的握裹與伸展	Syllabus	The behavior of reinforced concrete members is introduced in this course. The codes and design examples are also introduced. The major topics are listed below. 1. Introduction. 2. Analysis and design of R. C. beams. 3. Design of shear strength. 4. Design of development length

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