朝陽科技大學 092學年度第2學期教學大綱
Reinforced Concrete Design 鋼筋混凝土

當期課號	1113	Course Number	1113
授課教師	鄭茂川	Instructor	CHENG,MAO CHUAN
中文課名	鋼筋混凝土	Course Name	Reinforced Concrete Design
開課單位	建築系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	2	Credits	2
課程目標	本課程著重理論與實務並重，採強度設計法，以實例配合原理，條理分明，講授鋼筋混凝土各構材之分析與設計、剪力雨斜張力、扭轉力矩、樑之設計、柱之設計及基礎之設計，使學習者對鋼筋混凝土結構的設計分析上掌握能力。	Objectives	The main contents of this course include the study of materials and characteristics of reinforced concrete. The design method of reinforced concrete is emphasized on tension design which can be used to analyze the reaction of reinforced concrete materials. And then, it can be used to design the beam, column and foundation structures. The teaching method adopted here is simultaneously teach practice and theory of reinforced concrete to help students enrich their knowledge of important principles of reinforced concrete and improve their ability to work on related field.
教材	講授	Teaching Materials	
成績評量方式	1.平時成績（約談、課堂點名）10% 2.作業20% 3.期中考30% 4.期末考40%	Grading	Ordinary 10% homework 20% term-test 30% final-test 40%
教師網頁			
教學內容	1.鋼筋混凝土之性質 2.鋼筋混凝土設計方法 3.鋼筋混凝土軸向力之分析 4.鋼筋混凝土彎曲力矩之分析 5.鋼筋混凝土剪力與斜張力之分析 6.鋼筋混凝土扭轉力矩之分析 7.單鋼筋樑之設計 8.雙鋼筋樑之設計 9.T形樑之設計 10.柱之設計 11.基礎之設計	Syllabus	The main contents of this course include the study of materials and characteristics of reinforced concrete. The design method of reinforced concrete is emphasized on tension design which can be used to analyze the reaction of reinforced concrete materials. And then, it can be used to design the beam, column and foundation structures. The teaching method adopted here is simultaneously teach practice and theory of reinforced concrete to help students enrich their knowledge of important principles of reinforced concrete and improve their ability to work on related field.

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