朝陽科技大學 093學年度第2學期教學大綱
Prestressed Concrete 預力混凝土設計

當期課號	1043	Course Number	1043
授課教師	干裕成	Instructor	KAN,YU CHENG
中文課名	預力混凝土設計	Course Name	Prestressed Concrete
開課單位	營建工程系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	介紹預力混凝土理論，使學生對預力混凝土有基本理解，並訓練同學熟析一般設計及分析的步驟。本課程內容包括材料性質、撓曲分析、撓曲設計、預力損失、剪力與握裹力、連續構件・撓度控制等。	Objectives	This course introduces the pre-stressed concrete theory. The student who takes this class will be familiar with the sequence of design and analysis of pre-stressed concrete element. The content of this course includes material properties, flexural analysis and design, pre-stress losses, shear, continuous beam, deflection control.
教材	Design of Prestressed Concrete (2 ed.) by Arthur H. Nilson	Teaching Materials	
成績評量方式	作業(30%)、平時考(20%)、期中考(25%)、期末考(25%)	Grading	Homework(30%)、Quiz(20%)、Midterm(25%)、Final(25%)
教師網頁			
教學內容	基本概念、材料性質、預力損失、撓曲分析、撓曲設計、剪力強度設計、連續構件、撓度控制	Syllabus	Main contents of this course include Principles and methods of prestressing Philosophy of Design Prestressing materials Flexural analysis Flexural design Design for Shear Continuous members indeterminate structures Control for deflection Prestress losses

尊重智慧財產權，請勿非法影印。