朝陽科技大學 099學年度第2學期教學大綱
Prestressed Concrete 預力混凝土設計

當期課號	1517	Course Number	1517
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	Prestressed concrete structures (2nd Edition) by Arthur H. Nislon	Teaching Materials	Prestressed concrete structures (2nd Edition) by Arthur H. Nislon
成績評量方式	作業(20%)、平時考(30%)、期中考(20%)、期末考(20%)、平常表現(10%)	Grading	Homework(20%), Quizzes(30%), Midterm(20%), Final(20%), Other performance(10%)
教師網頁			
教學內容	基本概念、材料性質、斷面性質、撓曲分析、撓曲設計、預力損失、剪力及握裹、設計實務、實務專題研討	Syllabus	Main contents of this course includes introduction, material properties, section properties, Flexural analysis Flexural design, Prestressed loss, Design for Shear and bond Control for deflection Prestress losses, Design practice, Case study

尊重智慧財產權，請勿非法影印。