朝陽科技大學 095學年度第2學期教學大綱
Prestressed Concrete 預力混凝土設計

當期課號	3364	Course Number	3364
授課教師	陳冠宏	Instructor	Chen,Kuan Hung
中文課名	預力混凝土設計	Course Name	Prestressed Concrete
開課單位	營建工程系(二進)四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	Edward G. Nawy, “Prestressed Concrete – A Fundamental Approach, 3rd edition ”, Prentice Hall.	Teaching Materials	Edward G. Nawy, “Prestressed Concrete – A Fundamental Approach, 3rd edition ”, Prentice Hall.
成績評量方式	平時表現 10% 作業 25% 期中考試 30% 期末考試 35%	Grading	Notes 10% Homeworks 25% Midterm 30% Final 35%
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、剪力與握裹力	Syllabus	Main contents of this course include Basic concepts Prestressing materials Partial loss of prestress Flexural analysis Flexural design Shear design

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