

朝陽科技大學 092學年度第2學期教學大綱  
Prestressed Concrete 預力混凝土設計

當期課號	6012	Course Number	6012
授課教師	林明勝	Instructor	LIN,MING SHENG
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	課堂講解,習題演練或報告撰寫	Teaching Materials	Instruction, Homework or Seminar Paper Writing
成績評量方式	平時成績 30% 期中考 30% 期末考 40%	Grading	
教師網頁	-		
教學內容	1.瞭解預力混凝土結構之基本力學行為 2.學習預力構件之分析與設計方法 3.認識相關之規範條文與意涵 4.體驗預力混凝土工程實務	Syllabus	1.To Understand the Mechanical Behaviour of Prestressed Concrete Structure. 2.To Learn the Analysis & Design Method of Prestressed Concrete Member. 3.To Know the Provision's Meaning of the Specification. 4.To Visit the Practical Affairs of the Prestressed Concrete Engineering.

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