

朝陽科技大學 098學年度第1學期教學大綱
Behavior of Steel Structure 鋼結構行為學

當期課號	7165	Course Number	7165
授課教師	徐暉亭	Instructor	Shu,Wei Ting
中文課名	鋼結構行為學	Course Name	Behavior of Steel Structure
開課單位	營建工程系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程主要在探討鋼結構物的基本力學行為。由於鋼結構建築物的承載力，主要是靠柱、樑、版等組成構件進行力量傳遞，因此本課程即針對此類構件的力學行為進行探討，此外亦針對整體鋼結構破壞模式作介紹。	Objectives	The course investigates the basic mechanical behavior of steel structures, which is different from reinforced concrete structures. The load-carrying capacity of steel structures is based on the members of columns, beams, and plates. Therefore, this course focuses the mechanical behavior of these members. Besides, the entire collapse model of steel structures also discusses in the course.
教材	a. 課堂講義 b. Steel Structures, Design and Behavior. 4th Edition, C.G. Salmon & J.E. Johnson, 1996. c. AISC, Manual of Steel Construction, 13th Edition, 2005. d. AISC, Manual of Steel Construction, Load and Resistance Factor Design. , 3rd Edition , 2001. e. AISC, Manual of Steel Construction, Allowable Stress Design , 9th Edition ,1989. f. 鋼構造建築物鋼結構設計技術規範 (一) 鋼結構容許應力設計法規範及解說，營建雜誌社 g. 鋼構造建築物鋼結構設計技術規範 (二) 鋼結構極限設計法規範及解說，營建雜誌 h. 鋼結構設計—極限設計法與容許應力設計法，陳生金，科技圖書，2001	Teaching Materials	a. Class notes , Journal Papers b. Steel Structures, Design and Behavior. 4th Edition, C.G. Salmon & J.E. Johnson, 1996.
成績評量方式	期中考 作業 期末考 學習態度	Grading	Mid-term Exam Homeworks Final Exams Learning Attitude
教師網頁	-		
教學內容	本課程呈現一系列簡單、明確而且合理廣泛的結構穩定理論。這套理論是鋼結構行為的基礎，也可應用於實際鋼結構分析與設計的問題。	Syllabus	This course presents a simple, concise, and reasonably comprehensive introduction to the theory of structural stability that are the basis for structural steel behavior and shows how they may be used in the analysis and design of practical steel structures.

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