朝陽科技大學 096學年度第2學期教學大綱
Structural Stability 結構穩定學

當期課號	7129	Course Number	7129
授課教師	金文森	Instructor	KING,WON SUN
中文課名	結構穩定學	Course Name	Structural Stability
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	本課程主要是介紹「不穩定」所引起結構的破壞。土木結構多半極爲龐大，其破壞方式並非如機械結構肇因於降伏的破壞，也不同於飛機結構破裂及疲勞的破壞方式。本課程即針對土木結構所面臨最常見的破壞方式「挫屈」進行探討。	Objectives	The course introduces the failure of structures based on the Instability. Civil structures are always huge comparing with mechanics structures. The failures of these civil buildings are different from those of mechanics structures which induced from yielding failure. Besides, they are also different from the failure of aircraft members involving in the failure of crack and fatigue. This course investigates the typical Buckling failure of the civil structures based on the stability theorem.
教材	W. F. Chen and E. M. Lui, Structural Stability Theory and Implementation, Elsevier, 1988.	Teaching Materials	
成績評量方式	學習態度及平時作業(30%)、期中考(30%)、期末考(40%);	Grading	Learning Attitude and Homework(30%), Mid-Term Exam.(30%), Final Exam.(40%)
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原理與理論。這套理論是鋼結構設計的基礎，也可應用於解決實際建築剛構架設計的問題。	Syllabus	This course presents a simple, concise, and reasonably comprehensive introduction to the principles and theory of structural stability that are the basis for structural steel design and shows how they may be used in the solution of practical building frame design problems.

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