朝陽科技大學 094學年度第2學期教學大綱
Special Topics on Evaluation of Structural System 結構系統評估與技術專論

當期課號	7603	Course Number	7603
授課教師	金文森	Instructor	KING,WON SUN
中文課名	結構系統評估與技術專論	Course Name	Special Topics on Evaluation of Structural System
開課單位	營建工程系碩士在職專班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程根據結構學的基本理論，首先介紹各種結構系統及其行爲的特性、以及相關設計規範，然後加以比較評估。並介紹且討論相關的專業技術應用與實例。本課程的目標在於介紹樑、柱、框架、桁架、高樓、薄膜、版、薄殼、摺版、纜索、拱等不同結構系統的特性，及其彈性、彈塑性、塑性或破壞之行爲。結構材料以型鋼和鋼筋混凝土爲主，除探討結構分析與設計的相關方法外，並比較評估各種結構系統。	Objectives	The goal of this course is to introduce the characteristics of beam, column, frame, truss, tall building, membrane, slab, thin shell, folded plate, cable, arch and other structural systems. The elastic, elastic-plastic, fully plastic or collapse behavior of structural systems will be discussed. Structural materials discussed here are both steel and reinforced concrete. Several methods for structural analysis and design are discussed. The comparison between some structural systems is evaluated. Several special technical topics are also introduced.
教材	金文森，"剛性及半剛性接頭之鋼架構極限承載力研究"，行政院國家科學委員會專題研究計劃結案報告(NSC81-0410-E-014-01)，民國81年7月31日。...等共＋九份教材。	Teaching Materials	
成績評量方式	期中考(50%)、期末考(50%)	Grading	Mid-Term Exam.(50%), Final Exam.(50%)
教師網頁			
教學內容	本課程的目標在於介紹樑、柱、框架、桁架、高樓、薄膜、版、薄殼、摺版、纜索、拱等不同結構系統的特性，及其彈性、彈塑性、塑性或破壞之行爲。結構材料以型鋼和鋼筋混凝土爲主，除探討結構分析與設計的相關方法外，並比較評估各種結構系統。	Syllabus	The goal of this course is to introduce the characteristics of beam, column, frame, truss, tall building, membrane, slab, thin shell, folded plate, cable, arch and other structural systems. The elastic, elastic-plastic, fully plastic or collapse behavior of structural systems will be discussed. Structural materials discussed here are both steel and reinforced concrete. Several methods for structural analysis and design are discussed. Some structural systems will be compared and evaluated.