

當期課號	7513	Course Number	7513
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二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為的特性、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、塑性或破壞之行為。結構材料以型鋼和鋼筋混凝土為主，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	平時給予研究生作業，另外於期中及期末各考試一次，期末撰寫一篇書面報告，並作口頭報告。	Teaching Materials	Homework, Mid-Term Exam., Final Exam., Final Report, and Oral Exam.
成績評量方式	平時作業(20%)、期中考(30%)、期末考(30%)、期末報告(10%)、期末口試(10%)	Grading	Homework(20%), Mid-Term Exam.(30%), Final Exam.(30%), Final Report(10%), and Oral Exam.(10%)
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、塑性或破壞之行為。結構材料以型鋼和鋼筋混凝土為主，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.

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