朝陽科技大學 094學年度第2學期教學大綱
Building Frame System 建築結構系統

當期課號	1510	**Course Number**	1510
授課教師	陳清山	**Instructor**	CHEN,CHING SHAN
中文課名	建築結構系統	**Course Name**	Building Frame System
開課單位	建築系(二日)三A	**Department**	
修習別	必修	**Required/Elective**	Required
學分數	2	**Credits**	2
課程目標	使學生瞭解建築結構系統的一些基本性質，讓同學能以邏輯的系統思考方式來分析建築結構問題，並明瞭建築造型與結構系統之間的關係，深刻感受到利用結構系統的知識可以發展更多特殊的造型，啓迪學生造型的能力，兼顧建築中的理性與感性因子。課程內容有兩大部份，第一部份介紹較基本的課題，例如: 建築物之荷重、材料的應力以及材料基本性質; 第二部份則深入論述結構系統的種類，例如:向量作用結構系統、體積作用結構系統、形態作用結構系統、面作用結構系統以及高樓結構系統; 除此之外，亦將論及耐震和隔震結構等較特殊的主題。	**Objectives**	In this course of Building Structure Systems, students can learn some fundamental building structural subjects while at the same time developing their logical system-thinking and problem-solving abilities. In addition, this course can make students realize the relationship between structural systems and architectural forms, the relationship between rational and perceptual factors in architecture.This course covers two major topics of Building Structure Systems. The first topics include how the loadings to act on the building, the stress and character of the architectural components. The second topics are the types of Structure Systems. They are Vector-active Structure Systems, Volume-active Structure Systems, Form-active Structure Systems, Surface-active Structure Systems and Height-active Structure Systems.
教材	1.自編講義 2.參考書目:(1)結構系統 (STRUCTURE SYSTEM) Heinrich Engel 著 林昌明;羅時瑋 譯 臺隆書店印行 (2)結構系統概論 陳啓中 著 詹氏書局印行	**Teaching Materials**	
成績評量方式	1.平時成績20% 2.模型25% 3.報告書15% 4.期中考20% 5.期末考20%	**Grading**	1.Ordinarily Grade-20% 2.Architectural Model-25% 3.Reports-15% 4.Midterm Examination-20% 5.Final Examination-20%
教師網頁			
教學內容	此課程包含下列九個單元： 1.結構系統緒論 2.建築物之荷重 3.結構材料的性質 4.結構材料的基本應用 5.向量作用結構系統-桁架系統 6.體積作用結構系統-樑及構架系統 7.形態作用結構系統-纜索及拱系統 8.面作用結構系統-膜及薄殼系統 9.高樓結構系統	**Syllabus**	In this couese,there are nine units included: 1.the preface of Structure Systems 2.the loading of the architecture 3.the properties of the structural materials 4.the basic application of structural materials 5.Vector-active Structure Systems 6.Volume-active Structure Systems 7.Form-active Structure Systems 8.Surface-active Structure Systems 9.Height-active Structure Systems

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