

朝陽科技大學 092學年度第1學期教學大綱
Structure and Forms 結構與造型

當期課號	4020	Course Number	4020
授課教師	鄭茂川	Instructor	CHENG,MAO CHUAN
中文課名	結構與造型	Course Name	Structure and Forms
開課單位	建築系(二日)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	2	Credits	2
課程目標		Objectives	
教材	課堂講授 幻燈片解說	Teaching Materials	1.GA Document Extra Bernard Tschumi 2.GA Architect Arata Isozaki 3.Sir Norman Foster
成績評量方式	期中考30% ; 平時考核(出席) 20% 期末考30% ; 平時作業20%	Grading	Mid-term 30% Final-term 30% homework 20% Attendance 20%
教師網頁	-		
教學內容	以理論與實務併重為原則，從下列重點協助設計者去創造屬於自己意境的完整性建築作品。 一、V型支柱系統設計與構成原則 二、骨架構造形式、立面和轉角的處理 三、空間結構系統之研究與設計(空間架構、摺板、薄殼和鋼索結構與網格系統) 四、高層建築抗震與結構造型	Syllabus	Besides the considerations of practice and beauty, the structural safety and economy is also important while engaging in architectural design. From the viewpoint of structural safety and economy, this course will be teaching the plane and elevation of building structure. In addition, the force behavior of shear wall, plan of steel structure, plan of grid-slab, and plan of plate etc. are also needed to be studied in this class. By the way, structural forms are emphasized on rigid frame, V-shaped column and space structure. Studying this course, students will have confidence in learning architectural structure and will learn the systematic and sound concept of mechanics of structure. We expect that students can create new and modern architectural forms and distinguishing features in their future career from this course.

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