朝陽科技大學 092學年度第2學期教學大綱
Building Structure 建築結構學

當期課號	1094	Course Number	1094
授課教師	蔡忠志	Instructor	,
中文課名	建築結構學	Course Name	Building Structure
開課單位	建築系(四日)二A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	建立學生判斷靜定與靜不定觀念，了解樑、桁架與剛架之受力行爲，並繪製樑與剛架的剪力圖集彎矩圖，以作爲往後力學之基礎。建立學生基本結構觀念，並了解外力如何影響各種形式之建築物。期使學生日後從事建築工作時能有與結構技師溝通之能力。	Objectives	The contents of this course analyze the factors of influence on architectural structure. Besides, the vector-active structural system, the bulk-active structural system, the surface-active structural system, the form-active structural system and the high-rise building structure are also included. Further more, the characteristics, the principles of mechanics and the destruction-reinforcement mode are studied in each of the systems mentioned above. Again, we hope to use some elaborately designed examples of high-rise building, long-span, and special architecture case studies for analysis, students are expected to be able to use these knowledge as professional architects to communicate with professional structural engineer in this field. Even, an architecture student being a professional structure student being a professional structural engineer in the future is also possible.
教材	板書並配合講義、習題演練、隨時抽問、小考	Teaching Materials	none
成績評量方式	平時：35% 期中報告：30% 期末報告：35%	Grading	aAttendence 35% term-test 30% final-test 35%
教師網頁			
教學內容	第一單元 結構學緒論 第二單元 結構穩定性與可定性 第三單元 靜定樑的剪力圖及彎矩圖 第四單元 靜定桁架 第五單元 靜定剛架與靜定組合結構 第六單元 能量法及其應用 第七單元 結構的彈性變形 第八單元 斜坡撓度法 第九單元 彎矩分配法	Syllabus	he contents of this course analyze the factors of influence on architectural structure. Besides, the vector-active structural system, the bulk-active structural system, the surface-active structural system, the form-active structural system and the high-rise building structure are also included. Further more, the characteristics, the principles of mechanics and the destruction-reinforcement mode are studied in each of the systems mentioned above. Again, we hope to use some elaborately designed examples of high-rise building, long-span, and special architecture case studies for analysis, students are expected to be able to use these knowledge as professional architects to communicate with professional structural engineer in this field. Even, an architecture student being a professional structure student being a professional structural engineer in the future is also possible.

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