朝陽科技大學 097學年度第2學期教學大綱
Building Structure 建築結構學

當期課號	1890	Course Number	1890
授課教師	陳清山	Instructor	CHEN,CHING SHAN
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	1.自編教材 2.參考書目:(1) 結構學(上)(下) 詹崑祥˙梁英文˙何象鏞 編著 翰伸出版有限公司 (2) 結構觀念分析(上)(下) 陳宏謀 編著 謝昇佑 校正 文笙書局 經銷	Teaching Materials	handout
成績評量方式	平時成績35%、期中考成績30%、期末考成績35%	Grading	Learning 35% Mid-term 30% Final-term 35%
教師網頁			
教學內容	此課程之內容包含結構的靜定與靜不定觀念，以及樑、桁架與剛架之各種受力行爲，樑與剛架的剪力圖以及彎矩圖亦將在此門課中加以介紹，以作爲學生學習其它力學之基礎。	Syllabus	This course covers some basic topics of Building Structure. The principal topics are the concepts of statically determinate and statically indeterminate of structural elements, the mechanical behaviors of structural elements (including beams, trusses and frames). Other topics include the shear and moment diagrams of beams and frames.

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