

朝陽科技大學 092學年度第1學期教學大綱
High-Tech Architecture 高科技建築

當期課號	7048	Course Number	7048
授課教師	鄭茂川	Instructor	CHENG,MAO CHUAN
中文課名	高科技建築	Course Name	High-Tech Architecture
開課單位	建築及都市設計研究所碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標		Objectives	
教材	講授 個案研究與討論	Teaching Materials	
成績評量方式	平時研討成績 30% 期中考試 30% 期末考試或研究報告 40%	Grading	Attendance 30% Mid-term 30% Final-term or report 40%
教師網頁	-		
教學內容	<p>高科技建築是一門不動數字，而能夠創造分析複雜的曲面結構或大跨距結構的優越自由空間之結構設計學科。它除了探討空間架構外，還包含吊索結構、摺板結構、膜結構、薄殼結構的原理和系統概念。所以在建築設計領域已受到注目，許多造型優美的建築，巧妙運用了高科技建築。</p> <p>現今世界著名的建築師對高科技建築都有相當的了解，其中原因是：第一，他們唯有對新結構原理、新材料有週全的了解，才能與結構顧問做好充分的溝通。第二，他們具備這些知識後，才能落實結構顧問的建議並兼顧設計及預算。第三，他們在作空間設計階段，即可將結構納入考量，對決定模矩或造型會大有助益。</p>	Syllabus	<p>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.</p>

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