朝陽科技大學 094學年度第1學期教學大綱
Environmental Design of Buildings 建築環控設計

當期課號	1731	Course Number	1731
授課教師	邱英浩	Instructor	CHIU,YIN HAO
中文課名	建築環控設計	Course Name	Environmental Design of Buildings
開課單位	建築系(二日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	2	Credits	2
課程目標	此課程是以design studio 爲基礎；主要目的爲訓練學生可考慮環境條件(如氣候條件及周圍環境)於建築設計之中，預期；建築物可因此反應其所在之環境條件於空間、結構、外殼…等等，這是達到可辨識性(identification)的一種方法亦是表達建築多樣性(variability)的手段，藉由此課程的訓練，學生將可正確的運用被動式設計方法於建築設計，並深入了解建築物理學之應用。	Objectives	This course is mainly design studio based and aims at training students that can take account of environmental conditions such as climate and surroundings in their architectural design. It is expected that the building can therefore response the environmental conditions on its space, structure, envelope and so on. This is one of the methods to achieve “identification” and is also one the ways to express the “variability” of design. The completion of this course will enable students to correctly apply passive design strategies to their design and will deeply comprehend the application of building physics.
教材	1. Porteous, Colin (2003) The New Eco-Architecture, Spon Press, London. 2. Szokolay, Steven V. (2004) Introduction to Architectural Science: The Basis of Sustainable Design, Architectural Press, Oxford. 3. Salmon, Cleveland (1999) Architectural Design for Tropical Regions, John Wiley & Sons, USA. 4. Yeang, Ken (1999) The Green Skyscraper, Prestel. Verlag, Germany. 5. Roaf, Sue (2003) Ecohouse 2 – A Design Guide, Architectural Press, Oxford. 6. Moore, Fuller (1993) Environmental Control Systems – heating cooling lighting, McGraw-Hill, USA. 7. Hawkes, Dean (1996) The Environmental Tradition – Studies in the architecture of environment, E & FN Spon, UK. 8. Thmoas, Randall et al. (1997) Environmental Design, E & FN Spon, UK.	Teaching Materials	
成績評量方式	期中報告 30%，期末報告 40%，設計研討 20%，出席率 10%.	Grading	Middle term presentation 30%, Final presentation 30%，Design tutorial 20% and attendance 10%.
教師網頁			
教學內容	基本學習資料將於課程初期提供，因此課程是以設計操作爲主；設計研討將與教學穿插進行，教學內容將簡要介紹建築物理、環境議題、被動式設計、仿生學概念…等等相關項目。	Syllabus	Basic references related to this course will be provided at the beginning. Because this course is design operation based, design tutorials and teaching lectures will be given at regular intervals. The contents of the course will include some of general introduction of building physics, environmental

			issues, passive design strategy, biomicmic concept and so on.

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