

朝陽科技大學 097學年度第1學期教學大綱
Topics of Building Lighting Thermal Environmental 光熱環境設計專題

當期課號	1953	Course Number	1953
授課教師	郭章淵	Instructor	KUO,JHUN IUAN
中文課名	光熱環境設計專題	Course Name	Topics of Building Lighting Thermal Environmental
開課單位	建築系(四日)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	2	Credits	2
課程目標	光熱環境設計專題針對建築設備學進階研修為，目標包括以下內容：1.空調系統－包括空調原理、空調設備及設計、空調負荷分析。2.光環境－包括建築採光計畫與照明計畫3.省能建築－能源回收及建築省能設計。	Objectives	Topics of Building lighting and Thermal Environmental is classified into the following three parts: 1.Air-condition includes principles of air-condition , facility , air-condition loading analysis ,design of air-condition system. 2. Light environment includes day lighting planning of architecture , interior lighting design of architecture. 3.Energy conservation , includes renewable sources of energy, energy conservation design of building .
教材	1.自編教學講義 2.日光照明與永續設計（譯自 Daylighting for sustainable design）（2001）瑪麗古柔斯基(Mary Guzowski)著；陳淑珍譯 臺北市：麥格羅希爾出版：六合總代理。 3.照明設計學（1994）李碩重著；出版項 臺北市：全華。 4.Concepts and practice of architectural daylighting.（1985）Fuller Moore ; illustrations by Gregory Anderson. New York : Van Nostrand Reinhold. 5.Daylighting performance and design Gregg D. Ander.（1995）Gregg D. Ander. New York : Van Nostrand Reinhold.	Teaching Materials	1. Concepts and practice of architectural daylighting.（1985）Fuller Moore ; illustrations by Gregory Anderson. New York : Van Nostrand Reinhold. 2. Daylighting performance and design Gregg D. Ander.（1995）Gregg D. Ander. New York : Van Nostrand Reinhold. 3. Daylighting for sustainable design（2000）Mary Guzowski. New York : McGraw-Hill. 4. Low-tech light-tech high-tech building in the information age Klaus Daniels. building in the information age（1998）, Klaus Daniels. Basel Boston Berlin : Birkhauser. 5. Daylighting for sustainable design
成績評量方式	期中25%、平常40%（含作業25%）、期末35%	Grading	Mid-term 25%、Attendance, Homework 40%、Final-term 35%
教師網頁	-		
教學內容	光熱環境設計專題針對綠建築及建築設備學進階研修為目標包括以下內容：1.建築採光－太陽位置及建築設計之日照調整。2.建築照明－照明計畫及設計。3.空調系統－包括空調原理、空調設備及設計、空調負荷分析。4.綠建築概念－包括綠建築計畫，低能耗建築能源回收及建築省能設計	Syllabus	Topics of Building lighting and Thermal Environmental is classified into the following three parts: 1. Daylighting for sustainable design 2. Interior lighting design 3. Air-condition includes principles of air-condition , facility , air-condition loading analysis ,design of air-condition system. 4. Green architecture includes planning of green architecture , passive and design of low energy architecture.

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