朝陽科技大學 099學年度第1學期教學大綱
Architectural Environmental Control (1) 建築環境控制(一)

當期課號	1785	Course Number	1785
授課教師	陳炯堯	Instructor	CHEN,CHIUNG YAO
中文課名	建築環境控制(一)	Course Name	Architectural Environmental Control (1)
開課單位	建築系(四日)二A	Department	
修習別	必修	Required/Elective	Required
學分數	2	Credits	2
課程目標	這個課程配合建築系學生所學習過的基礎物理知識于以升級, 補充並擴充建築範圍內所需之內容. 課程主題分爲建築光學, 聲學及熱學.? 本學期之內容如下： 1.聲學基礎、室內聲場設計基礎、噪音評估基礎、吸隔音基礎。 2.採光基本理論、照度、配光基礎、人工照明計算。	Objectives	This is a continuation of General Physics. Physical problem solving ability is further developed for architectural environment. Topics include properties of simple harmonic motion, waves and sound, heat, heat transfer, thermodynamics, light, lighting and luminance. We focus here in this semester are: 1.fundamental acoustics, indoors sound field design, noise evaluation, basic sound isolation and absorption; 2. daylights basic, luminance, luminant distribution, artificial lighting calculation.
教材	1.建築物理概論, 陳啓中 編著, 詹氏書局. 2.建築環境工學概論(日文版). 3.建築物理環境, 賴榮平等著, 六合出版社.	Teaching Materials	1.Architectural Physics Introduction, ISBN 957-705-087-5 (in Chinese) 2.Architecture, Environment and Engineer, ISBN 4-8388-1507-7 (in Japanese)
成績評量方式	期中考30%, 期末考30%, 期中報告10%, 平時考30%.	Grading	Midterms 30%, Final 30%, Homework 10%, In-class 30%
教師網頁	www.cyut.edu.tw/~chychen		
教學內容	這個課程配合建築系學生所學習過的基礎物理知識于以升級, 補充並擴充建築範圍內所需之內容. 課程主題分爲建築光學, 聲學及熱學.	Syllabus	This is a continuation of General Physics. Physical problem solving ability is further developed for architectural environment. Topics include properties of simple harmonic motion, waves and sound, heat, heat transfer, thermodynamics, light, lighting and luminance.

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