朝陽科技大學 097學年度第2學期教學大綱
Physics 普通物理

當期課號	1880	Course Number	1880
授課教師	郭章淵	Instructor	KUO,JHUN IUAN
中文課名	普通物理	Course Name	Physics
開課單位	建築系(四日)一A	Department	
修習別	必修	Required/Elective	Required
學分數	2	Credits	2
課程目標	物理學爲工程科之基礎。學生應明瞭其基本原理及應用技巧，並爲將來建築物理課程奠定一定之基礎。	Objectives	This course is designated as the basis of the architectural mechanics of structure. The contents include mainly the statics which uses the balance of force to get the reaction of simple beam and cantilever; furthermore, to compute the interior force and stress as well as analyze the characteristics of sections and tension of materials. The goals are achieved by utilizing the analysis and computation techniques to study the principles of Physics. By means of some elaborately designed study cases, students are able to improve their practical knowledge of structural physics and capture the concept of mechanics of structure step by step.
教材	1.物理 / (Alan Giambattista)原著; 胡裕民,貝蒂.理查森(Betty McCarth Richardson)等譯; 出版項 臺北市 : 麥格羅希爾出版 2.觀念物理 / 休伊特(Paul G. Hewitt)著; 常雲惠等譯 出版項 臺北縣 : 天下遠見	Teaching Materials	1. College physics :Alan Giambattista 2.Conceptual physics : the high school physics program
成績評量方式	平時成績40%,期中考成績25%,期末考成績35%.	Grading	Middle term exam 25%, Final exam 35%, Homework 30%, Participation and attendance 10%
教師網頁	_		
教學內容	以古典物理爲基礎,教導學生與建築物理相關之內容;包括,牛頓運動定律.動量 ,轉動力學.萬有引力,物質三態.熱學 ,聲學.光學 電磁學基本流體力學;振盪與波動;基礎熱力學.	Syllabus	The lecture is based on the classic physics and aims at teaching students to have comprehensive knowledge associate with building physics. The content of the lecture includes force and motion, energy and work, fluid mechanics, oscillations and waves, and thermodynamics.

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