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## ②國玄東華大學

## 課 網 Course Outline

## 物理學系物理組

中文課程名稱 Course Name in Chinese		基礎物理實驗(三)(物理組)					
英文課程名稱 Course Name in English		Experimental Physics (III)(Physics program)					
科目代碼 Course Code		PHYS30200	班 別 Degree	學士班 Bachelor's			
修別 Type		學程 Program	學分數 Credit(s)	2. 0	時 數 Hour(s)	4. 0	
先修課程 Prerequisite		普通物理、普通物理實驗					
課程目標 Course Objectives							
藉由實驗操作,學習物理基本觀念及其應用。							
系教育目標 Dept.'s Education Objectives							
1	物理科學人才培育,奠定物理及相關科學領域專業知識 To provide integrated education programs in view of fundamental knowledge of physical sciences and associated fields						
2	培養高科技人才 To train the talent for knowledge-intensive industries.						
3	培養繼續進修的理工人才 To train the talent for taking higher educational program in physical sciences.						
系專業能力 Basic Learning Outcomes				力相關性 Correlati between C Objective Dept.'s	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives		
A	具備物理之基礎背 Possessing funda	景知識 mental knowledge in pl	hysical scie	nces.	Objective	•	
В	能運用基本物理知識與邏輯推理,分析解決物理問題 Being able to analyze and solve physics problems based on basic knowledge in physics as well as logical reasoning.				•		
С	Being acquainted		具有操作物理實驗儀器的能力 equipment and being able to physics experiments.				
D		式語言解決物理問題 se basic computer prog	ramming for	solving		•	

Е	善用各種資訊平台進行論文資料蒐集的能力 Being able to use various platforms for data collection	0					
	benefiting a topical research.						
	具備科技發展的國際視野以及外語溝通的能力						
F	Having an international view of the technology developments and	0					
	being able to use a foreign language for communications.						
	能整合物理與其它領域知識						
G	Being able to integrate the knowledge of physics with that of other fields.	•					
圖	圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated						
課程大綱							
Course Outline							
1.	黑體輻射						
	密立根油滴實驗						
3.	光速						
4.	. 臨界現象						
5.	. 金屬熱傳導率測定實驗						
6.	. 氣體絕熱係數測定實驗						
7.	熱機實驗						
8.	半導體熱產生器						
	資源需求評估(師資專長之聘任、儀器設備的配合・・・等)						
Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)							
物理專業師資、物理實驗室、相關圖書資料、影印機、投影機、幻燈機、實驗設備							
課程要求和教學方式之建議							
Course Requirements and Suggested Teaching Methods							
授課,實驗操作、問題討論,實驗報告、與期末考試。							
其他							
Miscellaneous							