## ②图玄東華大學

## 課 綱 Course Outline

## 自然資源與環境學系學士班

		口灬只办	兴场境学系学工艺	/上			
中文課程名稱 Course Name in Chinese		普通物理					
英文課程名稱 Course Name in English		General Physics					
科目代碼 Course Code			班 別 Degree		學士班 Bachelor's		
修別 Type		學程 Program	學分數 Credit(s)	3.0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite							
			課程目標				
Course Objectives							
透過思考練習與互動討論的方式認識基本物理觀念,啟發物理學欣賞,學習建立物理模型與解決問題的方法,體認科學精神,藉以養成能獨立思考、明辨是非的學生。							
			系教育目標				
			ducation Objective	es			
1	培養兼具國際視野與本土關懷的學生 To develop students who care about local issues and have an international perspective						
2	培養具備自然科學	音養具備自然科學與社會科學知識的人才 'o educate students to have knowledge of both the natural and social sciences					
3	培養具備環境倫理與人文素養的環境公民 To teach students to be environmental citizens (i.e., knowledgeable about environmental ethics and human issues)						
業 系專業能力 Co				相關性 Correlation	課程目標與系專業能力 相關性 Correlation between Course Objectives		
		Basic Learning Outcomes		and Dept.	and Dept.'s Education Objectives		
A	具備自然科學與社會科學的基礎知識						
В	具備觀察、理解、闡釋自然環境與人類社會互動及變遷關係的能力 To be able to observe, understand, and interpret the changing interactions of natural resources and human society.						
С	的能力 To have the abil	·策略、閱讀論文、排 lity to collect da write and present	ta, understand sc	ientific			

D	能終身學習、對環境維持熱情、關懷、並願意做出對在地環境獻身				
	的承諾				
	To cultivate the values of lifelong learning, to maintain				
	enthusiasm and concern for the environment, and to develop				
	commitment to the local environment.				
Е	具備環境倫理觀、社會責任感與社會實踐力				
	To develop and implement environmental ethics and social				
	responsibility.				
F	具備獨立思考、溝通協調與團隊合作的能力				
	To think independently, to communicate effectively, and to				
	cooperate with others as a team.				
G	具備基本外國語文能力				
	The be able to communicate in a foreign language.				
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated					
課程大綱					
Course Outline					
Mec	hanics				
1. Linear motion					
2. The laws of motion					
10 11	2 Work and anarry				

- 3. Work and energy
- 4. Collisions
- 5. Rotational motion
- 6. Gravity
- 7. Fundamental fluid mechanics

Oscillations and Mechanical Waves

- 1.0scillatory motion
- 2. Wave motion
- 3. Superposition and standing waves

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.)

## 課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

其他 Miscellaneous

規劃負責老師:

單位主管:

系課程委員會審議通過日期: