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# ②国玄東華大學

# 課 網 Course Outline 教育與潛能開發學系科學教育博士班

	7.1 // <b>7.1</b> // <b>2.1</b>						
中文課程名稱 Course Name in Chinese	科學哲學	科學哲學					
英文課程名稱 Course Name in English	Philosophy of Scien	Philosophy of Science					
科目代碼 Course Code	SCE_71500	班 別 Degree	博士班 Ph. D.				
修別 Type	選修 Elective	學分數 Credit(s)	3. 0	3.0 時數 Hour(s) 3.0			
先修課程 Prerequisite							
	Cou	課程目標 rse Objectives					
2. 從科學哲學	-科學哲學思潮的演變過程 ·探討科學教育的哲學基礎  當代的科學教育思想。						
	Dept.'s E	系教育目標 Education Object	tives				
1 1	放育學術研究的進階人才。 advanced talents in sc		study				
培養具備國際視野及在地關懷的科學教育專業領導者。 2 To cultivate professional leaders in science education with global perspective and local concern							
3 培養科學教育創新的專業領導者。 To cultivate professional leaders for science education innovation							
培養大眾科學教育及科學傳播的專業人才。 5 To cultivate the professional talents of science communication and public science education							
· · · · · · · · · · · · · · · · · · ·			課程目標 力相關性 Correlat between	ion			
Basic Learning Outcomes			Objective.	es and Education			
	厚業理論發展與實踐之素着 e capacity to develop tion		eories in				

В	具備科學教育獨立研究素養。 To possess the ability of independent study focusing on science education	
С	具備科學教育的創新與問題解決素養。 To possess creativity in science education and the ability of problem solving	
D	具備國際學術交流之素養。 To possess the ability of international academic exchanges	
Е	具備科學教學專業素養。 To possess the ability and professional knowledge in science education	

圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated

## 課程大綱 Course Outline

哲學是什麼?

科學哲學是什麼?

當代西方科學哲學思潮(A)

當代西方科學哲學思潮(B)

當代西方科學哲學思潮(C)

科學的哲學之興起

Philosophy of natural science(1)

Philosophy of natural science(2)

科學革命的結構(A)

科學革命的結構(B)

科學革命的結構(C)

The rationality of science

The rational image

Observation, Theory and Truth

Popper-The irrational rationalist

In search of the methodologist's stone

T. S. Kuhn: From revolution to social democrat

Feyerabend, The passionate liberal

Theory are incommensurable?

The thesis of verisimilitude

Scientific method

Strong programmes

Temperate rationalism

知識與行動(A)

知識與行動(B)

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.)

#### 多媒體設備

### 課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

講述、共同閱讀、全班討論、影片觀賞

其他

Miscellaneous