②国立東華大學

課 綱 Course Outline

自然資源與環境學系碩士班一般組

	課程名稱 rse Name in nese	國家公園地質專題						
Cour	会文課程名稱 Durse Name in Special Topics in Geology of National Parks nglish							
1	代碼 se Code	NRES54180	班 別 Degree	碩士班 Master's				
修別 Type		選修 Elective	學分數 Credit(s)	3.0	時數 Hour(s)	3. 0		
	·課程 ·equisite				·			
	課程目標							
	Course Objectives							
 To develop geologic background, concepts, and principles through study of selected national parks in Taiwan. To examine the geologic framework and history, ancient/modern geologic processes, and factors influencing the present day landscape for each park area. To finish an essay of introducing the geology of a national park by reading the geological literature. 								
Dept.'s Education Objectives								
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							
171	培養具備自然科學與社會科學知識的人才 To 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)							
		余專業能力 Basic Learning Oute			力相關性 Correlati between(Objective	Course es and Education		
1 1	能覺知多元的自然科學與社會科學理論並具備研究能							
1 1	カ To have knowledg	edge of natural and social science theories						

_	具備自然資源與人類社會議題之調查分析、規劃與經營之能 力					
B	To be able to investigate, analyze, plan, and manage both natural resource and human social issues					
	具備將環境倫理與生態思想落實於永續性生活型態的能力					
С	To implement sustainable lifestyles based on environmental					
	ethics and ecological principle					
D	能以整全式的觀點來解析環境問題,並具備發展系統性解決方案的能力					
	To resolve environmental issues and develop systematic					
	solutions with a global perspective					
Е	具備系統分析、未來思考、溝通協調與團隊合作的能力					
	The ability to analyze, plan, communicate, and coordinate with					
	others (teamwork)					
F	具備終身學習、國際視野與外語溝通的能力					
	To instill the values of lifelong learning, an international					
	perspective, and the ability to communicate in a foreign					
	language					
圖,	示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moder	ately correlated				
	課程大綱					
	Course Outline					
This course aims at introducing the geology of selected national parks in Taiwan.						
Topics to be						
discussed include: Earth's Structure & Plate Tectonics; Earth Materials, Rock Cycle;						
-	Igneous Rocks;					
Volcanic Activity; Sedimentary Rocks, Weathering, Erosion, Deposition; Metamorphic						
Rocks;						
	amorphism; Geologic Structures; Mountain Building Processes; Geolo	gic lime;				
	ologic Idforms: Ceologic Hazards: Ceology of Taroko National Park: Ceology	of Vancmingshan				
Landforms; Geologic Hazards; Geology of Taroko National Park; Geology of Yangmingshan National Park; and Geology of Kenting National Park. One required field trip to one of						
	e national	id trip to one of				
	ks mentioned will be arranged.					
-	資源需求評估(師資專長之聘任、儀器設備的配合・・・等)					
貝源高水計估(師貝專技之時任、俄盔設備的配合・・・寺) Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)						
	課程要求和教學方式之建議					
床在安水和教学方式之建議 Course Requirements and Suggested Teaching Methods						
Participation: 20%; Homework/Assignments 20%; Final Exam: 30%; Term Paper: 30%						
其他						
	Miscellaneous					