②國玄東華大學

課 網 Course Outline

自然資源與環境學系碩士班國際組

中文課程名稱 Course Name in Chinese		應用3D雷射掃描儀於地表調查專題					
英文課程名稱 Course Name in English		Seminar on the Application of 3D Laser Scanner to Earth Surface Surveys					
科目代碼 Course Code		NRESM0490	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	
先修課程 Prerequisite							
課程目標 Course Objectives							
系教育目標 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.						
2	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.).						
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	能覺知多元的自然科學與社會科學理論並具備研究能力 To have knowledge of natural and social science theories.						
В	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 To be able to investigate, analyze, plan, and manage both natural resource and human social issues.						
С	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 C To implement sustainable lifestyles based on environmental ethics and ecological principles.						

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

課程大綱 Course Outline

Introduction to terrestrial LIDAR techniques. this course will focus on collecting and analyzing earth surface data using ground based Lidar. Following by data processing lab. in order to create 3D virtual reality model. 利用陸地三維雷射掃描技術進行地表資訊收集,本課程除了讓學生學習最新之技術也讓學生實際進行環境學院建築之掃描與後處理工作,使學生能由資料收集與資料處理過程中學習建立3D模型之方式。

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