國立東華大學

課　　綱　 Course Outline

族群關係與文化學系碩士班

中文課程名稱 Course Name in Chinese	公眾參與式GIS				
英文課程名稱 Course Name in English	Public Participation Geographic Information Systems (PPGIS)				
科目代碼 Course Code	ERC_50040	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					

<table>
<tr><td colspan="6" align="center">課程目標
Course Objectives</td></tr>
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公眾參與地理資訊系統（PPGIS）源於批判性地理學，關注權力、身份與空間決策的關係。PPGIS結合 GIS 技術與參與式研究方法，透過簡易且普及的地圖工具，促進社區與原住民族部落在各類決策過程中的參與和溝通，以提升自主權與影響力。近年來，PPGIS 廣泛應用於土地與環境相關議題，包括環境規劃、自然資源管理、原住民族傳統領域調查與傳統知識保存等。本課程將引導學生理解 PPGIS 的理論、技術與實務應用，並進一步探討其在社會賦權（empowerment）、參與機制（participation issues）、空間認識論（spatial epistemology）等關鍵議題中的角色與挑戰。

Public Participation Geographic Information Systems (PPGIS) originate from critical geography and reflections on human power, identity, and spatial decision-making. PPGIS is an innovative approach that integrates GIS technology with participatory methodologies, utilizing accessible and widely used mapping tools to ensure the empowerment and engagement of communities and Indigenous peoples in various decision-making processes. In recent years, PPGIS has been increasingly applied to land and environmental issues, including environmental planning, natural resource management, Indigenous traditional territories, and traditional knowledge documentation.
In this course, students will not only need to understand the theoretical foundations, technical operations, and applications of PPGIS but also critically explore key issues such as empowerment, participation dynamics, and spatial epistemology.

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<tr><td colspan="6" align="center">系教育目標
Dept.'s Education Objectives</td></tr>
<tr><td>1</td><td colspan="5">培養跨領域族群研究。
Develop interdisciplinary training in ethnic studies.</td></tr>
<tr><td>2</td><td colspan="5">培育多元文化視野之人才。
Cultivate multicultural perspectives.</td></tr>
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	系專業能力 Basic Learning Outcomes	課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.'s Education Objectives
A	具備人文社會科學知識與族群研究之能力。 Provide knowledge skills for work in social science, the humanities, and ethnic studies	○
B	具備族群議題分析、批判、解決之能力。 Cultivate the ability to analyze, think critically, and solve problems relating to ethnic issues.	●
C	具備文化資料蒐集、分析與統整的能力。 Develop the ability to gather, sort, and analyze cultural data.	●
D	具備多元族群視野與跨文化溝通的能力。 Cultivate multicultural perspectives and cross-cultural communication skills.	●

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

課程大綱
Course Outline

• 理解 PPGIS 的理論基礎與實務應用，並探索在應對社會、環境與政治挑戰中的角色。
• 透過實際案例，掌握參與式研究方法，並探討知識共同生產、社區賦權與協同決策的意義與影響。
• 培養參與式製圖、焦點團體資料收集與地圖視覺化表達的實作能力。
• 以批判性視角審視技術與工具在社會正義、權力關係、資料所有權與文化敏感度等層面可能帶來的挑戰與影響。

• Understand the theoretical foundations and practical applications of PPGIS in addressing contemporary social, environmental, and political challenges.
• Gain insights into participatory research methods through real-world case studies, exploring the co-production of knowledge, local empowerment, and collaborative decision-making.
• Develop practical skills in participatory mapping, focus group data collection, and cartographic representation.
• Critically assess the potential issues and impacts of technologies and tools in relation to social justice, power dynamics, data ownership, and cultural sensitivity.

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.)

具相關專長之師資

Teachers with relevant expertise

課程要求和教學方式之建議
Course Requirements and Suggested Teaching Methods

依當學期授課教師規定

According to the regulations of the instructor of the current semester

其他
Miscellaneous