



國立東華大學

教學計畫表 Syllabus (碩士班)

中文課程名稱 Course Name in Chinese	保護區與社區參與			學年/學期 Academic Year/Semester	113-2	
英文課程名稱 Course Name in English	Protected and Conserved Areas and Community Participation			授課教師 Instructor	李光中/ Kuang-Chung Lee 孫夏天/ Paulina G. Karim	
科目代碼 Course Code	NRESM0380	系級 Department & Year	國際碩士班	開課單位 Course-Offering Department	自然資源與環境學系	
修別 Type	☐ 必修 Required ☒ 選修 Elective ☐ 學程 Program	學分數 Credit(s)	3	時數 Hour(s) 時間 Time 教室 Room	3hr 09:10-12:00, Mon A159	
先修課程	無 (None)					
課程描述 Course Description	Protected area and conserved areas (protected areas and other effective area-based conservation measures (OECMs), with recognition of Indigenous and traditional territories) are central to achieving Target 3 of Kunming-Montreal Global Biodiversity Framework – conserving 30 % of land, waters and seas by 2030. Indigenous People and local communities play an important role in sustainable management of protected and conserved areas. This course is designed to provide students with an understanding of the current trends in the development of protected and conserved areas in Taiwan and globally, focusing on the role of people-centered approaches to area-based conservation.					
課程目標 Course Objectives	The course aims to: a) provide students with an overview of the current global trends in area-based conservation and Taiwan’s national biodiversity conservation agenda; b) equip students with the knowledge of protected area management categories, OECMs, and Indigenous and traditional territories; c) enable students to critically explore practical applications of the theoretical knowledge through case studies and field visits. The concept and practice of integrated landscape and seascape approaches will be an essential component of the course. The course will especially encourage students to learn from the articles and case studies published in <i>PARKS: The International Journal of Protected Areas and Conservation</i> and <i>PANORAMA: Solutions for a Healthy Planet Platform</i> .					
系專業(基本)能力 Basic Learning Outcomes	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 be knowledgeable of natural and social science theories. B.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 resources and human social issues. C.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 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 use global perspectives to resolve environmental issues and develop systematic solutions. E.具備系統分析、未來思考、溝通協調與團隊合作的能力 To have the ability to analyze, plan, communicate, and coordinate with others as a team. 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, to develop an international perspective, and to have the ability to communicate in a foreign language.					
課程目標與系專業能力相關性 Correlation between Course Objectives and Basic Learning Outcomes	A	B	C	D	E	F
	◎	●	◎	●	●	◎
圖示說明 Illustration : ● 高度相關 Highly correlated ◎ 中度相關 Moderately correlated						

授課進度表 Teaching Schedule & Content		
Week	內容 (Subject/Topics)	Remarks
1	Course and syllabus introduction	2025/2/17
2	Global perspective: Kunming-Montreal Global Biodiversity Framework and Protected Planet Report 2024	2025/2/24
3	National perspective: National system and institutional arrangement of protected areas in Taiwan	2025/3/3
4	Field trip (1): Getting to know Hualien landscape-seascape: Farglory Hotel observation deck and Hualien Rivel estuary (half a day)	2025/3/10
5	Protected areas: definition, principles and categories (Ia and Ib) Group discussion: Area-based conservation post-2020	2025/3/17
6	Protected areas: categories (II, III and IV) Group discussion: 30 by 30 Target: What and where?	2025/3/24
7	Protected areas: categories (V and VI) Group discussion: 30 by 30 Target: How?	2025/3/31
8	Other effective area-based conservation measures (OECMs) Group discussion: 30 by 30 Target and marine protected areas (MPAs)	2025/4/7
9	Oral presentation of the mid-term report	2025/4/14
10	Field trip (2): Exploring the role of Indigenous Peoples and local communities in area-based conservation: Yushan National Park's Nan'An Visitor Center and Nan'An Indigenous Bunun Tribe (whole day)	2025/4/19 or 20 (Sat-Sun) TBA
11	Community-based approaches to conservation and integration into wider landscapes and seascapes Group discussion: 30 by 30 Target: While ensuring recognition and integration	2025/4/28
12	Conservation beyond protected areas: Taiwan Ecological Network and the Satoyama Initiative <i>Invited speaker: Mr. Yuan-Jyun Wang, Forestry and Nature Conservation Agency, Hualien Branch</i>	2025/5/5
13	Geo-conservation and community-based eco-tourism Case study (1): Fengnan Village, Hualien County	2025/5/12
14	Self-learning	2025/5/19
15	Community-based biodiversity monitoring and resilience Case study (2): Xinshe and Gangkou Villages, Hualien County	2025/5/26
16	From local to national to global: Joint efforts towards 2030 global biodiversity agenda <i>Invited speaker (online, TBA): Kamal Kumar Rai Sir, Researcher on Indigenous science and philosophy, Kirant Indigenous person, Kathmandu, Nepal</i>	2025/6/2
17	Oral presentation of the final report	2025/6/9
18	Final Report submission	2025/6/16
Remark: The dates for field trip (1) ~ (2) are subject to change due to weather and/or availability. The field trips are for registered students only.		
教學策略 Teaching Strategies	■課堂講授 Lecture ■分組討論 Group Discussion ■參觀實習 Field Trip ☐ 其他 Miscellaneous: _____	
學期成績 計算方式 Grading	■期中報告 Mid-term Report (PPT + Report): 25% ■期末報告 Final Report (PPT + Report): 30% ■作業成績 Assignments: 15% ■出席率和參與討論 Participation/ attendance 30%	

Class literature for individual assignments (A-M) and group discussions (●)	
Useful electronic resources throughout the course (Weeks 2-18): ✧ PANORAMA Solutions for a Healthy Planet Platform. 30X30 Solutions. Official website. https://panorama.solutions/en/portal/panorama-30x30-solutions ✧ PARKS The International Journal of Protected Areas and Conservation. Official website. https://parksjournal.com/ ✧ 30 X 30 Solutions Toolkit. Official Website. https://www.30x30.solutions/ ✧ Kunming-Montreal Global Biodiversity Framework (2025). Convention on Biological Diversity. Official website. https://www.cbd.int/gbf ✧ UNEP-WCMC, IUCN and NGS (2024). Protected Planet Report 2024. UNEP-WCMC, IUCN and NGS: Cambridge UK; Gland, Switzerland; and Washington, D.C., USA. https://digitalreport.protectedplanet.net/ ✧ WWF and IUCN WCPA (2023). A Guide to Inclusive, Equitable and Effective Implementation of Target 3 of the Kunming-Montreal Global Biodiversity Framework: Version 1. https://iucn.org/sites/default/files/2023-09/30x30-target-framework.pdf	
Note: Downloaded versions of the papers will be made available on the E-learning platform.	
Week2	✧ IPBES (2019). Summary for policymakers of the global assessment report on biodiversity and ecosystem services of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services. S. Díaz, J. Settele, E. S. Brondízio E.S., H. T. Ngo, M. Guèze, J. Agard, A. Arneeth, P. Balvanera, K. A. Brauman, S. H. M. Butchart, K. M. A. Chan, L. A. Garibaldi, K. Ichii, J. Liu, S. M. Subramanian, G. F. Midgley, P. Miloslavich, Z. Molnár, D. Obura, A. Pfaff, S. Polasky, A. Purvis, J. Razzaque, B. Reyers, R. Roy Chowdhury, Y. J. Shin, I. J. Visseren-Hamakers, K. J. Willis, and C. N. Zayas (eds.). IPBES secretariat, Bonn, Germany. IPBES Official Website. https://files.ipbes.net/ipbes-web-prod-public-files/inline/files/ipbes_global_assessment_report_summary_for_policymakers.pdf ✧ Kunming-Montreal Global Biodiversity Framework (2025). Convention on Biological Diversity. Official website. https://www.cbd.int/gbf . See also: 2030 Targets (with Guidance Notes) https://www.cbd.int/gbf/targets ✧ UNEP-WCMC, IUCN and NGS (2024). Protected Planet Report 2024. UNEP-WCMC, IUCN and NGS: Cambridge UK; Gland, Switzerland; and Washington, D.C., USA. Chapters 1, 2 and 3. https://digitalreport.protectedplanet.net/ ✧ WWF and IUCN WCPA (2023). A Guide to Inclusive, Equitable and Effective Implementation of Target 3 of the Kunming-Montreal Global Biodiversity Framework: Version 1, pp. 20-30. https://iucn.org/sites/default/files/2023-09/30x30-target-framework.pdf ✧ 30 X 30 Solutions Toolkit. Official Website. https://www.30x30.solutions/
Week3	✧ Forestry and Nature Conservation Agency (n.d.) Habitat Protection. Official website of Nature Conservation, https://conservation.forest.gov.tw/EN/habitat ✧ 林業及自然保育署 (n.d.) 棲地保育。自然保育官網： https://conservation.forest.gov.tw/habitat (In Chinese) ✧ Lee, K.C. (2003) Enhancing Collaborative Governance for Natural Area Management: Some Experiences from Taiwan, <i>International Planning Studies</i> , 8(1):35-81. ✧ 李光中、王鑫 (2004) 建立和評估自然保護區社區參與論壇之研究—以櫻花鉤吻鮭野生動物保護區為例， <i>地理學報</i> ，36: 1-22。 (In Chinese)
Week5	✧ Protected Planet (2025). Official website. https://www.protectedplanet.net/en ✧ A/B. Dudley, N. (Editor) (2008). Guidelines for Applying Protected Area Management Categories . Gland, Switzerland: IUCN. x + 86pp. WITH Stolton, S., P. Shadie and N. Dudley (2013). <i>IUCN WCPA Best Practice Guidance on Recognising Protected Areas and Assigning Management Categories and Governance Types</i> , Best Practice Protected Area Guidelines Series No. 21, Gland, Switzerland: IUCN. https://portals.iucn.org/library/node/30018 : A. Background, definition, principles, and categories of protected areas: pp. 1-12 (+ with examples from Protected Planet website). B. Category Ia Strict nature reserve: pp. 13-14, and Category Ib Wilderness area: pp. 14-16 (+ with examples from Protected Planet website). Group discussion (Area-based conservation post-2020): ● Maxwell, S. L., Cazalis, V., Dudley, N., Hoffmann, M., Rodrigues, A. S. L., Stolton, S., Visconti, P., Woodley, S., Kingston, N. ... Watson, J. E. M. (2020). Area-based conservation in the twenty-first century . <i>Nature</i> , 856. https://doi.org/10.1038/s41586-020-2773-z ● Gurney, G. G., Adams, V. M., Alvarez-Romero, J. G. & Claudet, J. (2023). Area-based conservation: Taking stock and looking ahead . <i>One Earth</i> , 6, 98–104 https://doi.org/10.1016/j.oneear.2023.01.012

Week6	✧ Protected Planet (2025). Official website. https://www.protectedplanet.net/en ✧ C/D/E. Dudley, N. (Editor) (2008). Guidelines for Applying Protected Area Management Categories. Gland, Switzerland: IUCN. x + 86pp. WITH Stolton, S., P. Shadie and N. Dudley (2013). <i>IUCN WCPA Best Practice Guidance on Recognising Protected Areas and Assigning Management Categories and Governance Types</i>, Best Practice Protected Area Guidelines Series No. 21, Gland, Switzerland: IUCN. https://portals.iucn.org/library/node/30018: C. Category II National Park, pp. 16-17 D. Category III Natural monument or feature, pp. 17-19 E. Category IV Habitat/ species management area, pp.19-20 Group discussion (30 by 30 Target: What and where?): ● WWF and IUCN WCPA (2023). A Guide to Inclusive, Equitable and Effective Implementation of Target 3 of the Kunming-Montreal Global Biodiversity Framework: Version 1, pp. 34-43. https://iucn.org/sites/default/files/2023-09/30x30-target-framework.pdf ● UNEP-WCMC, IUCN and NGS (2024). Protected Planet Report 2024. UNEP-WCMC, IUCN and NGS: Cambridge UK; Gland, Switzerland; and Washington, D.C., USA. Chapters 4, 5 and 6. https://digitalreport.protectedplanet.net/ ● 30 X 30 Solutions Toolkit. Official Website. What and where? https://www.30x30.solutions/#what-where
Week7	✧ Protected Planet (2025). Official website. https://www.protectedplanet.net/en ✧ F/G. Dudley, N. (Editor) (2008). Guidelines for Applying Protected Area Management Categories. Gland, Switzerland: IUCN. x + 86pp. WITH Stolton, S., P. Shadie and N. Dudley (2013). <i>IUCN WCPA Best Practice Guidance on Recognising Protected Areas and Assigning Management Categories and Governance Types</i>, Best Practice Protected Area Guidelines Series No. 21, Gland, Switzerland: IUCN. https://portals.iucn.org/library/node/30018: F. Category V Protected landscape/ seascape, pp. 20-22 (+ with examples from Protected Planet website). G. Category VI Protected area with sustainable use of natural resources & Relationship between the categories, pp. 22-24 (+ with examples from Protected Planet website). Group discussion (30 by 30 Target: How? Equitable governance and effective management): ● Dudley, N. (Editor) (2008). [Please see above reference] Chapter 3: Governance of protected areas, pp. 26-32. ● WWF and IUCN WCPA (2023). A Guide to Inclusive, Equitable and Effective Implementation of Target 3 of the Kunming-Montreal Global Biodiversity Framework: Version 1, pp. 43-51. https://iucn.org/sites/default/files/2023-09/30x30-target-framework.pdf ● UNEP-WCMC, IUCN and NGS (2024). Protected Planet Report 2024. UNEP-WCMC, IUCN and NGS: Cambridge UK; Gland, Switzerland; and Washington, D.C., USA. Chapters 7 and 8. https://digitalreport.protectedplanet.net/ ● 30 X 30 Solutions Toolkit. Official Website. How? https://www.30x30.solutions/#how
Week8	✧ Protected Planet (2025). Official website. https://www.protectedplanet.net/en ✧ H. WWF and IUCN WCPA (2023). A Guide to Inclusive, Equitable and Effective Implementation of Target 3 of the Kunming-Montreal Global Biodiversity Framework: Version 1, pp. 51-54. https://iucn.org/sites/default/files/2023-09/30x30-target-framework.pdf ✧ H. 30 X 30 Solutions Toolkit. Official Website. Other Effective Area-Based Conservation Measures. https://www.30x30.solutions/other-effective-area-based-conservation-measures/ (+ with examples from Protected Planet website). (Optional literature for H) Jonas, H. D., Bingham, H. C., Bennett, N. J., Woodley, S., Zlatanova, R., Howland, E., Belle, E., Upton, J., Gottlieb, B., Kamath, V., Lessmann, J., Delli, G., Dubois, G., Ahmadi, G., Claudet, J., Cook, C., Deza, J., Grorud-Colvert, K., Gurney, G., Lemieux, C. J. & Ruiz, L. (2024). Global status and emerging contribution of other effective area-based conservation measures (OECMs) towards the ‘30x30’ biodiversity Target 3. <i>Frontiers in Conservation Science</i>, 5, 1447434. https://doi.org/10.3389/fcosc.2024.1447434 Group discussion (30 by 30 Target and Marine protected areas): ● Kirsten Grorud-Colvert <i>et al.</i> (2021). The MPA Guide: A framework to achieve global goals for the ocean. <i>Science</i> 373, eabfo861. DOI: 10.1126/science.abfo861

Week11	✧ I. 30 X 30 Solutions Toolkit. Official Website. Recognizing Indigenous and traditional territories. https://www.30x30.solutions/recognising-indigenous-traditional-territories/#Summary ✧ I. UNEP-WCMC, IUCN and NGS (2024). Protected Planet Report 2024. UNEP-WCMC, IUCN and NGS: Cambridge UK; Gland, Switzerland; and Washington, D.C., USA. Chapter 9. https://digitalreport.protectedplanet.net/ ✧ J. 30 X 30 Solutions Toolkit. Official Website. Integrated into landscapes, seascapes and ocean. https://www.30x30.solutions/integrated-into-landscapes-seascapes-and-ocean/#Summary ✧ J. UNEP-WCMC, IUCN and NGS (2024). Protected Planet Report 2024. UNEP-WCMC, IUCN and NGS: Cambridge UK; Gland, Switzerland; and Washington, D.C., USA. Chapter 10. https://digitalreport.protectedplanet.net/ (Optional literature for J) Karimova, P.G. and Lee, K.C. (2022). An Integrated Landscape–Seascape Approach in the Making: Facilitating Multi-Stakeholder Partnership for Socio-Ecological Revitalisation in Eastern Coastal Taiwan (2016–2021). <i>Sustainability</i> 14(7), 4238: 1-23. DOI: 10.3390/sui14074238. Group discussion (30 by 30 Target: While ensuring recognition and integration): ✧ WWF and IUCN WCPA (2023). A Guide to Inclusive, Equitable and Effective Implementation of Target 3 of the Kunming-Montreal Global Biodiversity Framework: Version 1, pp. 59-62. https://iucn.org/sites/default/files/2023-09/30x30-target-framework.pdf ✧ Karim K. and Lee, K.C. (2024). Landscape Approaches for the 30x30 Target: Potential Applications and Practical Recommendations. <i>PARKS</i> 30(2), 78-84; https://parksjournal.com/wp-content/uploads/2024/12/Karim-and-Lee_Short-communication_PARKS-30.2.pdf ✧ Esmail, N., McPherson, J. M., Abulu, L., Amend, T., Amit, R., Bhatia, S., Bikaba, D., Brichieri-Colombi, T. A., Brown, J.... Wintle, B. (2023). What’s on the horizon for community-based conservation? Emerging threats and opportunities. <i>Trends in Ecology & Evolution</i>, 38(7). https://doi.org/10.1016/j.tree.2023.02.008
Week12	✧ K (In Chinese). Chen, M.H.; Hseuh M.L.; Huang, H.H.; Sun (Karim), X.T. (P.G); and Lee, K.C. (2023). Overview and future perspectives: 10 years of the Satoyama Initiative in Taiwan. <i>Taiwan Forestry Journal</i>, vol. 49(1), pp. 15-22 (in Chinese). 陳美惠、薛美莉、黃信勳、孫夏天、李光中 2023 ‘回顧及前瞻：臺灣里山倡議 10 週年’<i>台灣林業</i>，49 卷 1 期（2023 年 2 月），台北台灣。 ✧ K (In Chinese). Lee, K.C.; Sun, X.T.; Lo, Y.C.; Shih, C.C.; Chang Y.L.; Chiu, Y.H. (2021). 2021-2030 Transformative Strategy Framework for the Satoyama Initiative in Taiwan. <i>Taiwan Forestry Journal</i>, vol. 47(2), pp. 15-22 (in Chinese). 李光中、孫夏天、羅尤娟、石芝菁、張雅玲、邱雅華 2021‘臺灣里山倡議 2021-2030 轉型策略架構’<i>台灣林業</i>，47 卷 2 期（2021 年 4 月），台北台灣 (In Chinese). Additional literature: ✧ 國土生態保育綠色網絡建置計畫（2025）Taiwan Ecological Network. Official website. https://conservation.forest.gov.tw/TEN (In Chinese) ✧ International Partnership for the Satoyama Initiative (2025). Official website. https://satoyamainitiative.org/ ✧ The Satoyama Initiative in Taiwan (2025). Forestry and Nature Conservation Agency. Official website. https://conservation.forest.gov.tw/EN/0002040 ✧ Karim, P.G.; Lee, K.C.; Liao, R.Y.; Chen, M.H. (2024). You Are My Mountain, I Am Your Community: Rebuilding Nature-Culture Connectivity in Taiwan’s Lishan Areas. In: Sarmiento, F.O., Gunya, A. (eds) <i>Mountain Lexicon. Montology</i>, vol 2:223-232. Springer, Cham. https://link.springer.com/chapter/10.1007/978-3-031-64884-7_30

Week13	✧ Crofts, R.*, Gordon, J.E., Brilha, J., Gray, M., Gunn, J., Larwood, J., Santucci, V.L., Tormey, D., and Worboys, G.L. (2020). <i>Guidelines for geoconservation in protected and conserved areas</i>. Best Practice Protected Area Guidelines Series No. 31. Gland, Switzerland: IUCN. https://portals.iucn.org/library/sites/library/files/documents/PAG-031-En.pdf ✧ L. Lee, K.C. & Karimova, P.G. (2021) "From cultural landscape to aspiring geopark: 15 years of community-based landscape tourism in Fengnan Village, Hualien County, Taiwan (2006-2021)," <i>Geosciences</i>, 11(8), 310; https://doi.org/10.3390/geosciences11080310 ✧ Lee, K.C. & Yan, S.Y. (2019). "Participatory planning and monitoring of protected landscapes: a case study of an indigenous rice paddy cultural landscape in Taiwan," <i>Paddy and Water Environment</i>, 17 (3), 539-548. https://doi.org/10.1007/s10333-019-00750-1 ✧ L. Lee, K.C., Kacaw, L., Chen, M.L., Shia, J.S. & Fan, M.L. (2016). "Tailoring the Satoyama Initiative concepts to the national and local context: a case study of the collaborative planning process of a rice paddy cultural landscape in an indigenous community, Taiwan," In: <i>Mainstreaming concepts and approaches of socio-ecological production landscapes and seascapes into policy and decision-making</i> (Satoyama Initiative Thematic Review vol. 2), pp.50-58, ISBN:978-92-808-4573-0, United Nations University Institute for the Advanced Study of Sustainability (UNU-IAS), Tokyo, Japan. https://collections.unu.edu/eserv/UNU:5890/SITR_vol2_complete.pdf
Week15	✧ M. Dublin, D.R. and Natori, Y. (2020). Community-based project assessment using the indicators of resilience in SEPLS: Lessons from the GEF-Satoyama Project. Current Research in Environmental Sustainability. DOI: 10.1016/j.crsust.2020.100016. ✧ M. Karimova, P.G.; Yan, S.Y.; Lee, K.C. (2022). SEPLS well-being as a vision: co-managing for diversity, connectivity and adaptive capacity in Xinshe Village, Hualien County, Taiwan. UNU-IAS and IGES (eds.) <i>Nexus among biodiversity, health, and sustainable development in managing socio-ecological production landscapes and seascapes (SEPLS)</i>, Satoyama Initiative Thematic Review vol. 7, UNU-IAS, Singapore, Springer Nature. https://doi.org/10.1007/978-981-16-9893-4_4 (Optional literature for M) Karim P.G. and Lee, K.C. (2025). Conservation and adaptation go hand in hand: on the role of Taiwan Ecological Network in fostering resilient landscapes and seascapes. Taiwan Insight. [Link to be added post 19 February 2025].
Week16	Group discussion with invited speaker based on literature from weeks 2 to 15