Course Module

Restoration of Conservation Area

Faculty of Forestry

Mulawarman University

Module name	Restoration of Conservation Area
Modul level, if applicable	Doctoral
Code, if applicable	220401902P059
Subtitle, if applicable	
Courses, if applicable	Regular
Semester(s) in which the module is taught	The course is available in all active teaching semesters
Person resposible for the module	
Lecturer	
Language	Indonesia, English
Relation to curriculum	Elective Courses
Type of teaching, contact hours	Direct instruction, discussion, and assignment
Workload	Number of meetings per semester 16 meetings (14 meetings for learning activity, 1 meeting for mid-semester, 1 meeting for final examination) For this course, students are required to meet a minimum of 79.3 hours per semester, which consist of : - 23.33 hours for lecture - 28 hours for structured assignments - 28 hours for individual study
Credit points	3 SKS / 4.8 ECTS Details: 1 Credit = 170 min / week 1 Credit = 170 min x 14 week = 2380 min / semester 1 Credit = 39.7 h / semester 1 ECTS = 25 h/ Semester 1 Credit = 1.59 » 1.6 3 Credit = 1.6 x 3 = 4.8 ECTS
Requirements according to the examination regulations	
Recommended prerequisites	

Module objectives/intended learning outcomes	**Intended Learning Outcome (ILO)** **Attitude** 1. **CPL1/ILO1 (S1)** - Internalize values, norms, and ethics **Knowledge** 2. **CPL2/ILO2 (P1)** - Synthesize knowledge acquired from research findings with novelty and its implementation 3. **CPL3/ILO3 (P2)** - Discover and develop scientific conceptions with novelty value, and develop scientific arguments as scientific solutions **General Skills** 4. **CPL4/ILO4 (KU1)** - Critically analyze the philosophy, theory, and research methodology in forestry and the moist tropical environment sciences through interdisciplinary, multidisciplinary, and transdisciplinary approaches 5. **CPL5/ILO5 (KU2)** - Demonstrate academic leadership in resource management to independently formulate research plans and possess scientific ethics **Specialized Skills** 6. **CPL6/ILO6 (GS3)** - Manage data and information to support decision-making processes 7. **CPL7/ILO7 (GS4)** - Work and communicate in an international context **Cource Learning Outcome (CLO)** 1. **CLO 1 :**. Students will demonstrate an in-depth understanding of the definitions and fundamental principles of ecosystem restoration. They will be able to explain various approaches and methods used in restoration, including identifying factors that influence restoration success. 2. **CLO 2 :** Students will be able to interpret and apply national and international policy frameworks related to ecosystem restoration. Additionally, they will engage in identifying ethical issues and community involvement strategies to empower local communities in conservation restoration projects. 3. **CLO 3 :** Students will develop practical skills to draft inclusive and sustainable restoration plans, apply survey and mapping techniques in restoration projects, and evaluate the effectiveness of various restoration methods used. They will also be skilled in managing resources and mitigating conflicts during restoration projects.
Content	The Conservation Area Restoration course is designed to provide an in-depth understanding of the definitions and basic principles of ecosystem restoration, various approaches and methods used, and factors influencing the success of restoration. This program includes the analysis of restoration case studies across different biomes, national and international policies related to restoration, and ethical issues in conservation area restoration. Students will also learn about resource

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<td>management, conflict mitigation, community involvement, and empowerment of local communities, as well as the application of the latest technologies in restoration areas.
1. Understanding definitions and basic principles of ecosystem restoration (1st session) → CLO1
2. Explaining various approaches and methods in ecosystem restoration (2nd session) → CLO1
3. Identifying factors influencing the success of restoration (3rd session) → CLO1
4. Analysis of restoration case studies across different biomes (4th session) → CLO1
5. Understanding national and international policy frameworks related to restoration (5th session) → CLO2
6. Identifying ethical issues in conservation area restoration (6th session) → CLO2
7. Community involvement and empowerment of local communities (7th session) → CLO2
8. Midterm Exam (8th session) → Assesment
9. Resource management and conflict mitigation (9th session) → CLO3
10. Writing and publication of restoration research findings (10th session) → CLO3
11. Drafting inclusive and sustainable restoration plans (11th session) → CLO3
12. Applying survey and mapping techniques in restoration (12th session) → CLO3
13. Implementing the latest technology in restoration areas (13th session) → CLO3
14. Evaluating the effectiveness of restoration methods (14th session) → CLO3
15. Training and capacity building for local stakeholders (15th session) → CLO3
16. Final Exam (16th session) → Assesment</td>
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<td>Study and examination requirements and forms of
examination</td>
<td>Evaluation and assessment of learning achievement based on:
<table>
<tr><th>No.</th><th>Objects of Assessment</th><th>Forms of Assessment</th><th>Quantity (%)</th></tr>
<tr><td>1</td><td>Affective</td><td>Participation</td><td>10</td></tr>
<tr><td>2</td><td>Assignment/Case Study</td><td>Group Presentation</td><td>25</td></tr>
<tr><td>3</td><td>Project</td><td>Report</td><td>25</td></tr>
<tr><td>4</td><td>Mid-semester test</td><td>Written test</td><td>15</td></tr>
<tr><td>5</td><td>Final semester test</td><td>Written test</td><td>25</td></tr>
<tr><td colspan="3">TOTAL</td><td>100</td></tr>
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Media employed	Class, Ms. Powerpoint, Ms. Word, Computer, LCD, STAR
Reading list	1. Allison, S. K. 2012. *Ecological Restoration and Environmental Change: Renewing Damaged Ecosystems*. Routledge. 2. Andel et al. 2012. *Restoration Ecology: The New Frontier*. Wiley-Blackwell. 3. Clewell et al. 2013. *Ecological Restoration: Principles, Values, and Structure of an Emerging Profession*. Island Press. 4. Hakkenberg, D. P. 2019. *Ethics in Restoration Ecology: A Guide for Professional Conduct*. Society for Ecological Restoration. 5. Moss, B. 2010. *A Guide to the Restoration of Nutrient-Enriched Shallow Lakes*. Wiley. 6. Palmer, M. et.al. 2016. *Foundations of Restoration Ecology*. Island Press. 7. Rieger et al. 2013. *Project Planning and Management for Ecological Restoration*. Island Press. 8. Aronson et al. 2007. *Restoring Natural Capital: Science, Business, and Practice*. Island Press. 9. Restoration Ecology: Repairing the Earth's Ecosystems in the New Millennium. 2000. *Restoration Ecology Journal*, 8(2), 115-120. 10. "Technological Advances in Restoration Ecology". 2015. *Journal of Applied Ecology*, 52(3), 599-607. 11. Community Involvement in Restoration: Approaches, Benefits, and Challenges. 2018. *Ecological Management & Restoration*, 19(2), 123-130. 12. Various other related scientific articles on the Landscape Ecology and Modelling