



Course Module

Sylvofishery

Faculty of Forestry

Mulawarman University

Module name	Sylvofishery
Modul level, if applicable	Graduates Programme
Code, if applicable	220401802P028
Subtitle, if applicable	
Courses, if applicable	Regular
Semester(s) in which the module is taught	II (two)
Person responsible for the module	Prof. Dr. Ir. Marjenah, M.P.
Lecturer	Prof. Dr. Ir. Marjenah, M.P. Dr.rer.nat. Harmonis, S.Hut., M.Sc. Prof. Dr. Esti Handayani Hardi, S.Pi., M.Si.
Language	Indonesia
Relation to curriculum	Programme, mandatory
Type of teaching, contact hours	Lecture, 3 lecture contact hours
Workload	Number of meetings per semester: 16 meetings (14 meetings for learning activity, 1 meeting for mid semester, 1 meeting for final examination) 3 x 50 minutes lectures, 3 x 60 minutes structure activity, 3 x 60 minutes individual activity, with a total of 7,140 minutes or equivalent to a total of 119 hours in 14 weeks per semester
Credit points	3 SKS (4.8 ECTS) Details: 1 Credit = 170 min/week 1 Credit = 170 min x 14 week = 2,380 min/semester 1 ECTS = 25 h / semester 1 Credit = 2,380 / 60 / 25 = 1.6 ECTS 3 Credit = 1.6 x 3 = 4.8 ECTS
Requirements according to the examination regulations	Have attended not less than 80% class meetings
Recommended prerequisites	
Module objectives/intended learning outcomes	Intended Learning Outcomes Knowledge and Understanding ILO-1 : Applying scientific ethics, norms, and values of professionalism Engineering Analysis

	ILO-2 : Mastering specialized knowledge, skills and techniques in the field of forestry and tropical environment and being able to develop innovative theories, models and methods in their field. Social Competences ILO-5 : Lead, work in a team, and be responsible for achieving group work results. Course Learning Outcomes Knowledge and Understanding CLO-1: Applying scientific ethics, norms, and professional values in forestry and tropical forest environment work in sylvofishery. Engineering Analysis CLO-2: Mastering knowledge, skills, and specialized techniques in forestry and tropical forest environments, as well as being able to develop innovative theories, models, and methods in the field of sylvofishery. Social Competences CLO-3: Leading, collaborating in teams, and being responsible for achieving group work results and the performance of the tropical forest sector and environmental systems in silvofishery.
Content	After attending this course, students have the ability to: 1.Students can explain the concepts in the introduction to sylvofishery (CLO-1) 2.Students can explain forest and fishery ecology (CLO-1) 3.Students can explain the techniques and systems of planting in sylvofishery (CLO-2) 4.Students can explain fisheries in the sylvofishery system (CLO-2) 5.Students can explain integrated natural resource management (CLO-3) 6.Students can explain the forest utilization system for fisheries. (CLO-3) 7.Students can explain the impact of climate change on sylvofishery. (CLO-3) 8.Students can explain the socio-economic aspects of sylvofishery. (CLO-3) 9.Students can explain sustainable natural resource management (CLO-3) 10.Students can analyze the monitoring and evaluation of the sylvofishery program. (CLO-3) This course discusses concepts in the introduction to sylvofishery, forest and fishery ecology, planting techniques and systems in sylvofishery, fisheries in the sylvofishery system, integrated natural resource management, forest utilization systems for fisheries, climate change impacts on sylvofishery, socio-economic aspects in sylvofishery, sustainable natural resource management, and monitoring and evaluation of sylvofishery programs.

Study and examination requirements and forms of examination	Evaluation and assessment of the learning process are following scheme 5 in the Academic Regulations of Mulawarman University:			
	No.	Objects of Assessment	Forms of Assessment	Quantity (%)
	1	Affective	Participation	10
	2	Laboratory practice/fieldwork	Participation, group project report	20
	3	Assignment/case study	Group presenttation	15
	4	Project	Report	15
	5	Mid-semester test	Written test	15
	6	Final semester test	Written test	25
	TOTAL			100
Media employed	Laptop, LCD			
Reading list	1. Gibson, L., & Lee, P. (2013). <i>The Impact of Climate Change on Forestry and Fishery Management</i>. Springer Science & Business Media 2. Bohn, M., & Ricker, W. E. (2009). <i>Integrating Forest and Fishery Resources: An Ecosystem Approach</i>. Journal of Environmental Management, 88(5), 1024-1032 3. Wollenberg, E., & Lim, S. (2012). <i>Forest and Fish: Integrating Ecosystem Services into Management Practices</i>. CIFOR (Center for International Forestry Research). 4. Fischer, R., & Dudgeon, D. (2014). <i>Ecology and Conservation of Fish Communities in Forested Watersheds</i>. Environmental Biology of Fishes, 97(2), 181-192.			