



Course Module

Forest Management

Faculty of Forestry

Mulawarman University

Module name	Forest Management
Modul level, if applicable	Doctoral
Code, if applicable	190401602P074
Subtitle, if applicable	-
Courses, if applicable	-
Semester(s) in which the module is taught	The course is available in all active teaching semesters
Person responsible for the module	Prof. Dr. Rujehan, MP
Lecturer	1. Prof. Dr. Rujehan, MP 2. Dr. Setiawati, MP 3. Heru Herlambang, S.Hut. MP. Ph.D.
Language	Indonesian
Relation to curriculum	Matriculation, compulsory for non-forestry background
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	Credit points: 2 SKS / 3.2 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 2 Credit = 1.6 x 2 = 3.2 ECTS

Requirements according to the examination regulations	-
Recommended prerequisites	-
Module objectives/intended learning outcomes	Intended Learning Outcome (ILO) Attitude (A) 1. CPL1/ILO1 (A1) - Internalizing values, norms, and ethics in Knowledge Knowledge (K) 2. CPL2/ILO2 (K1) - Synthesize knowledge acquired from research findings with novelty and its implementation. 3. CPL3/ILO3 (K2) - Discover and develop scientific conceptions with novelty value, and able to develop scientific arguments as science solutions. General Skills (GS) 4. CPL4/ILO4 (GS1) – Critically analyze the philosophy, theory, and methodology of research in forestry and moist tropical environment studies through interdisciplinary, multidisciplinary, and transdisciplinary approaches. 5. CPL5/ILO5 (GS2) - Demonstrate academic leadership in resource management to independently formulate research plans and possess scientific ethics. Specialized Skills (SS) 6. CPL6/ILO6 (SS1) - Manage data and information to support decision-making processes. 7. CPL7/ILO7 (SS2) - Work and communicate in an international context. Course Learning Outcome (CLO) 1. CLO1: Master theoretical concepts and fundamental principles of forest management in tropical environments. 2. CLO2: Conduct studies on the development of science and technology in the field of forestry and tropical environments. 3. CLO3: Select and apply methods for problem-solving in the field of forestry in tropical environments. 4. CLO4: Demonstrates responsible performance in forestry and tropical environmental expertise.

Content	The description should clearly indicate the weighting of the content and the level. 1. Basic Management Concepts, including: Definition and Meaning, Principles of Management, Levels of Management, Management Functions 2. History of Forest Management in Indonesia, including: Pre-Colonial Period, Colonial Period, Post-Independence Period 3. Definition and Scope of Forest Management, including: Objectives and Functions of Forest Management; Technical, Social, Economic, and Environmental Aspects of Forest Management; New Paradigms in Forest Management. 4. Forest Management Concepts, including: Normal Forest Stand Structure, Sustainability Principles, Growth Increment (Riap), Rotation and Harvesting Cycles. 5. Even-Aged and Uneven-Aged Forest Management. 6. Yield Regulation and Forest Planning, including: Yield Regulation, Fully Structured Forest Planning, Measurement of Growing Stock, Harvesting Quota, Impact of High and Low Logging Intensity, Determining Harvest Volume. 7. Determination of Rotation, including: Factors Affecting Rotation, Types of Rotation, Determining Rotation Based on Maximum Production Volume. 8. Mid-Semester Examination. 9. Forest Land and Stand Assessment, including: Definition, Land Expectation Value (Factors Determining Forest Land Value and Assessment of Even-Aged Forest Stands), Stand Assessment (Cost and Revenue Estimation, Structured Forest Assessment), Stumpage Value (Calculation Methods for Stumpage Value). 10. Forestry and Forest Organizations, including: Forestry Organizations, Forest Organizations. 11. Forest Management Unit (FMU) Concept as a Management Unit. 12. Community-Based Forest Management Units, including: Forest Cultivation Area (KBK), Non-Cultivated Forest Area (KBNK), Case Studies. 13. Various Indicators of Sustainable Forest Management (Production, Ecology, and Socio-Economics), including: Sustainable Production Forest Management (PHPL), Sustainable Plantation Forest Management (PHTL). 14. Final Examination.											
Study and examination requirements and forms of examination	Evaluation and assessment of learning achievement based on scheme 1 in the Academic Regulations of Mulawarman University: <table><tr><td>N o</td><td>Objects of Evaluation/Assessment:</td><td>Forms of E/A</td><td>Quantity (%)</td></tr><tr><td>1</td><td>Lecture Participation</td><td>Participation</td><td>10</td></tr></table>				N o	Objects of Evaluation/Assessment:	Forms of E/A	Quantity (%)	1	Lecture Participation	Participation	10
N o	Objects of Evaluation/Assessment:	Forms of E/A	Quantity (%)									
1	Lecture Participation	Participation	10									

	2	Assignments/Case Study	Group Presentation	25
	3	Project	Presentation	25
	4	Mid-Semester Test	Written test	15
	5	Final Examination	Written test	25
	Total			100
Media employed	Class, Ms. Powerpoint, Ms. Word, Computer, LCD, STAR			
Reading list	1. Anonymous. 2014. Pengelolaan Hutan Berbasis Masyarakat (Status Kini dan Masa Depan). Forum Nasional untuk Hutan dan Masyarakat, Jakarta. 2. Davis, L.S., K.N. Johnson. 1986. Forest Management (Third Edition). McGraw-Hill Book Company. New York, St. Louis, San Francisco, Auckland, Bogota Hamburg, London, Madrid, Mexico, Montreal, New Delhi, Panama, Paris, Sao Paulo, Singapore, Sydney, Tokyo, Toronto. 3. Jerram, M.R.K. 1935. A Text-Book on Forest Management, Chapman & Hall Ltd. London. 4. Junus, M. (Koordinator). 1984. Dasar-dasar Umum Ilmu Kehutanan. Badan Kerjasama Perguruan Tinggi Negeri Indonesia Bagian Timur, Ujung Pandang. 5. Kuncoro, I. 1995. Diktat Manajemen Hutan. Laboratorium Politik Ekonomi dan Sosial Kehutanan, Jurusan Manajemen Hutan, Fakultas Kehutanan Universitas Mulawarman, Samarinda. 6. Manullang. 1988. Dasar-dasar Manajemen. Ghalia Indonesia, Jakarta. 7. Nanang, M., G.S. Devung (Editor). 2004. Local People in Forest Management and The Politics of Participation. Indonesia Country Report. Institute for Global Environmental Strategies (IGES), Kanagawa, Japan. 8. Poedjorahardjo. 1980. Manajemen Hutan. Pusat Pendidikan Kehutanan Cepu. Direksi Perum Perhutani, Cepu. 9. Raharjo D. Y. dan U. Pradhan. 2000. Pengelolaan Sumberdaya Hutan Berbasis Masyarakat: Wacana atau Pilihan. pp. 11 http://www.damarnet.org/download/makalah%20Seminar%20PSHBM-DAMAR.pdf 10. Rujehan. 2009. Dasar-dasar Manajemen (Buku Ajar). Program Pascasarjana Universitas Brawijaya, Malang. 11. Rujehan. 2019. Pengantar Manajemen Hutan. Mulawarman University Press, 2019 12. Sagala, P. 1984. Mengelola Lahan Kehutanan Indonesia. Yayasan Obor Indonesia, Jakarta. 13. Sardjono, M.A. 2004. Mosaik Sosiologis Kehutanan (Masyarakat Lokal, Politik dan Kelestarian Sumberdaya). DEBUT Press, Yogyakarta.			

	14. Sardjono, M.A. 2006. Beberapa Catatan Kebijakan dan Implementasi Pengelolaan Hutan Berbasis Masyarakat (CBFM) di Indonesia. Paper Presented at PHBLM (Pengelolaan Hutan Berbasis Lingkungan dan Masyarakat) Workshop, JAVLEC, Yogyakarta. 15. Simon, H. 1994. Merencanakan Pembangunan Hutan untuk Strategi Kehutanan Sosial. Yayasan Pusat Studi Sumberdaya Hutan. Yogyakarta. 16. Supratman, S. Alam. 2009. Manajemen Hutan (Bahan Ajar). Laboratorium Kebijakan dan Kewirausahaan Kehutanan, Fakultas Kehutanan Universitas Hasanuddin, Makassar. 17. Suwandhi, I. 2016. Mengenal Sistem Sertifikasi Pengelolaan Hutan Lestari di Indonesia. http://ichsansuwandhi.blogspot.com/2016/02/mengenal-sistem-sertifikasi-pengelolaan.html 18. Terry. 1960. Principles of Management, third edition Richard D. Irwin, Inc. Homewood, Illinois. 19. Wenger, Karl F. 1984. Forestry Handbook 2nd Edition. 20. Williams, M.R.W. 1981. Decision Making in Forest Management. Research Studies Press, Toronto. 21. Wirakusumah, S. 2003. Sumberdaya Hutan (Suatu Telaah Ekonomi). Universitas Indonesia. UI-Press, Jakarta
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