



THE MODULE HANDBOOK

Magister Biology Study Program

FACULTY OF BIOLOGY

VEGETATION ECOLOGY

Course code	BIMB202204
Course level	Master's
Semester/term	Odd
Course coordinator(s)	Siti Nurleily Marlina
Lecture(s)	Siti Nurleily Marlina
Language	Indonesian
Classification within the Curriculum	Compulsory
Teaching format/ class hours per week during the semester	The lecture runs for 14 weeks, comprising one meeting each week, 100 min long. Additionally, practical works are held weekly during the course period.
Workload	100 min of lecture per week; 120 min independent learning per week; 120–150 min practical work per week.
Credits	2-1
Requirements	None
Program Learning Outcome	<p>PLO A1 contribute in improving the quality of life of society, nation, state, and the development of civilization based on Pancasila;</p> <p>PLO A2 cooperate with communities at various level, and have social sensitivity and concern for the society and environment;</p> <p>PLO K1 biological theories, includes all aspects of biological studies at various levels in the organization of life;</p> <p>PLO K3 analysis and synthesis based on biological concepts, and principles of sustainable use and conservation of biological resource.</p> <p>PLO GS2 make decisions in solving biological problems based on analytical or experimental studies and critical analysis of information and data;</p> <p>PLO SK1 conduct research in the field of biology independently or in groups, and able to solve various biological-related problems.</p>
Course Learning Outcome	<p>CLO1 Students should be able to understand the key concepts pertaining to vegetation ecology.</p> <p>CLO2 Students should be able to understand various characteristics of vegetation, its adaptation, and its relationship to the environment.</p>



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	<p>CLO3 Students should be able to understand how to classify, measure, and analyze vegetation, as well as how to design and carry out vegetation research in the field.</p> <p>CLO4 Students should be able to understand the application of basic principles of ecology in vegetation conservation strategies.</p> <p>CLO5 Students should be able to understand and identify issues concerning vegetation in various parts of the world, the impact of human activities upon them, as well as their management strategies.</p>
Course Description	<p>This Vegetation Ecology course discusses the complex interactions between various biotic and abiotic factors in natural plant communities. It introduces students to the basic concepts of plant ecology, and focuses on the factors that affect the distribution and abundance of vegetation. In this course, descriptive and quantitative approaches are used to identify and understand the structural and functional characteristics of plant communities. Biotic interactions and the role of environmental factors will also be studied in this course.</p>
Assesments	<p>Individual project and quizzes (10%), group assignments (30%), midterm exam (30%), end of term exam (30%)</p>
Study Media	<p>Lecture video (YouTube), Google Classroom, online meeting platform</p>
Literature	<ol style="list-style-type: none">1. Gurevitch, Scheiner, Fox. 2002. The Ecology of Plants. Sinauer Associates.2. Maarel E.van der. 2004. Vegetation Ecology. Wiley-Blackwell.3. Barbour MG et al. 1998. Terrestrial Plant Ecology. Benjamin Cummings.4. Ricklefs RE. 2008. The Economy of Nature. W.H. Freeman and Company.5. Mueller-Dombois D, Ellenberg H. 1974. Aims and Methods of Vegetation Ecology. Wiley and Sons.6. Various OERs7. Various journal articles.