


MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME	COURSE CODE : D10D-3009
Module designation	Plant Taxonomy	
Semester in which the module is taught	3	
Persons responsible for the module	1. Dr. Budi Irawan, M.Si. 2. Joko Kusmoro, MP 3. Dr. Suryana, MP	
Medium of instruction	Indonesian	
Relation to curriculum	Compulsory Course	
Teaching methods	Student-Centered Learning, Project-based Learning, Collaborative Learning, Field Lecture	
Workload	Total workload : 8160 minute = 136 hour Lecture and discussion : 3 x 50 minute x 16 week = 2400 minute = 40 hour Exercises : 3 x 60 minute x 16 week = 2880 minute = 48 hour Self-study : 3 x 60 minute x 16 week = 2880 minute = 48 hour	
Credit points	3.00 (5.43 ECTS)	
Required and recommended prerequisites for joining the module	Basic biology	
Module objectives/intended learning outcomes	<p>LO2: Students are able to conclude research problems based on quality, measurable, and valid reference sources.</p> <p>LO7: Students are Able to evaluate work outcomes both independently and in groups.</p> <p>LO8: Students are expected to develop themselves through the strengthening of character, competencies, and the literacies of data, technology, and humanity, as well as soft skills (21st-century skills) that foster Higher Order Thinking Skills (HOTS).</p>	
Contents	<p>The Plant Taxonomy course provides an in-depth exploration of plant diversity based on the classification systems of Plants. The course encompasses the fundamental principles and concepts of taxonomy, including the identification of plants through the examination of morphological, anatomical, and external pollen or spore characteristics. Students are trained to prepare detailed plant descriptions, conduct identification using taxonomic keys, and apply proper botanical nomenclature. The course also covers plant grouping and classification, techniques for the preparation and management of herbarium specimens, and the various forms of taxonomic evidence used to support classification. Additionally, it introduces methods for analyzing plant relationships as a basis for understanding evolutionary connections among taxa.</p>	

Examination forms	Quiz, examination, Assignment, Project
Study and examination requirements	The minimum attendance in lectures is 80%. Final grades are evaluated based on quiz (20%), Examination (30%), assignment (20%), Project (30%)
Reading lists	<ol style="list-style-type: none"> 1. Simpson MG. 2020. Plants Systematics (Third edition). Elsevier: Amsterdam. 2. Bridson D and Forman L. 1999. The Handbook of Herbarium. Royal Botanic Garden, Kew, United Kingdom. 3. Utteridge T and Bramley G. 2015. The Kew Tropical Plant Identification Handbook. Kew: Kew Publishing Royal Botanic Garden 4. Beentje H. 2010. The Kew Plant Glossary. an Illustrated Dictionary of Plants Term. Kew: Kew Royal Botanic Garden 5. Sosef MSM, Degreef J, Engledow A, Meerts P. 2020. Botanical Classification and Nomenclature: an Introduction. Maise: Maise Botanical Garden. 6. Retnowati A, Rugayah, Rahajoe JS, Arifiani D. 2019. The Status of Indonesia's Biodiversity: The Richness of Plant and Fungal Species in Indonesia. Jakarta: LIPI Press [Indonesian]

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| | <ol style="list-style-type: none">14. Djarwaningsih T, Sunarti S dan Kramadibrata K. 2002. Panduan Pengolahan dan Pengelolaan Herbarium serta Pengendalian Hama terpadu di herbarium Bogoriense. Herbarium Bogoriense –LIPI, Bogor.15. Stearn WT. 1998. Botanical Latin. Timber Press, Inc. Portland Oregon16. Baumgardt JP. 1994. How to Identify Flowering Plant Family. Timber Press, Inc. Portland Oregon17. Clarke I and Lee H. 1994. Name That Flower. Meulbourne University Press.18. Balgooy MMJ. 1998. Malaysian Seed Plants. Rijskherbarium, Leiden, Netherland |
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