


MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME	COURSE CODE : D10D-3010
Module designation	Plant Taxonomy Practicum	
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	Practice	
Workload	Total workload : 2720 minute = 45.33 hour Practice : 1 x 170 minute x 16 week = 2720 minute = 45.33 hour Exercises : - Self-study : -	
Credit points	1.00 (1.81 ECTS)	
Required and recommended prerequisites for joining the module	Basic biology	
Module objectives/intended learning outcomes	LO2: Students are able to conclude research problems based on quality, measurable, and valid reference sources. LO7: Students are Able to evaluate work outcomes both independently and in groups. 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).	
Contents	The Plant Taxonomy Practicum course practices how plant description, plant identification, plant character spots, plant nomenclature, algae identification, fungus and lichen identification, moss and fern identification, morphology as taxonomic evidence, identification key; morphology, anatomy and palynology as taxonomic evidence; herbarium techniques, and numerical taxonomy.	
Examination forms	Quiz, Midterm exam, Activities, Worksheet Reports, and Final exam, Project Base Learning	
Study and examination requirements	The minimum attendance in lectures is 100%. Final grades are evaluated based on quiz (5%), midterm exam (15%), activities (10%), worksheet reports (25%), and final exam (15%), Project Base Learning (35%)	

Reading lists

1. Vogel, E.F.D. 1987. Manual of Herbarium Taxonomy Theory and Practice. Rijksherbarium Leiden. Netherlands.
2. Simpson MG. 2020. Plants Systematics (Third edition). Elsevier: Amsterdam.
3. Bridson D and Forman L. 1999. The Handbook of Herbarium. Royal Botanic Garden, Kew, United Kingdom.
4. Utteridge T and Bramley G. 2015. The Kew Tropical Plant Identification Handbook. Kew: Kew Publishing Royal Botanic Garden
5. Beentje H. 2010. The Kew Plant Glossary. an Illustrated Dictionary of Plants Term. Kew: Kew Royal Botanic Garden
6. Sosef MSM, Degreef J, Engledow A, Meerts P. 2020. Botanical Classification and Nomenclature: an Introduction. Maise: Maise Botanical Garden.
7. 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]
8. Van Balgooy MMJ. 1999. Malesian Seed Plant: Vol. 1: spot-characters – An aid for identification of families and genera. Leiden, Backhuys Publishers.

serta Pengendalian Hama terpadu di herbarium Bogoriense. Herbarium Bogoriense –LIPI, Bogor.

15. Stearn WT. 1998. Botanical Latin. Timber Press, Inc. Portland Oregon

16. Baumgardt JP. 1994. How to Identify Flowering Plant Family. Timber Press, Inc. Portland Oregon

17. Clarke I and Lee H. 1994. Name That Flower. Meulbourne University Press.

18. Balgooy MMJ. 1998. Malaysian Seed Plants. Rijkskerbarium, Leiden, Netherland