


MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME	COURSE CODE: D10D-601019
Module designation	Botanical Economics	
Semester(s) in which the module is taught	6	
Person(s) responsible for the module	1. Dr. Budi Irawan, M.Si 2. Joko Kusmoro, Drs. MP.	
Medium of instruction	Indonesian	
Relation to curriculum	Elective course	
Teaching methods	Lectures, discussions, cooperative learning, and inquiry learning, project based learning	
Workload	Total workload : 5440 minutes = 90.67 hours Lectures, discussions, : 2 x 50 minutes x 16 weeks = 1600 minutes = 26.67 hours cooperative learning, and inquiry learning Exercises : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours Self-study : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours	
Credit points	2,00 (3,62 ECTS)	
Required and recommended prerequisites for joining the module	Higher Plant Biosystematics	
Module objectives/intended learning outcomes	1. Able to understand and apply the basics of botany to improve community welfare. 2. Able to know and understand how to apply plant knowledge to translate results into market opportunities and economic botanical development. 3. Able to correlate strategies for the sustainable utilization of economic plant resources by integrating botanical knowledge with scientific methods and modern technology as a basis for environmentally responsible decision-making. 4. Able to plan biological concepts for the development and use of plants with high economic value to provide real benefits to the daily lives of the community. 5. Able to manage plant diversity with economic value at the local and regional levels effectively and in an environmentally friendly manner.	
Contents	1. Introduction 2. Biodiversity/megabiodiversity 3. Indonesian spice plants 4. Ornamental plants 5. Food crops 6. Fruit and vegetable crops 7. Industrial crops	

	8. Plants used as sweeteners, perfume ingredients, fiber plants, and pollutant absorbers 9. Making terrariums, paludariums, vivariums, kokedama, etc. 10. Making vertical gardens 11. Making bonsai 12. Introducing Indonesian bamboo 13. Introducing yard and talun plants in West Java 14. Making natural pesticides
Examination forms	Quiz, midterm exam, assignment, and final exam
Study and examination requirements	The minimum attendance in lectures is 80%. Final grades are evaluated based on quiz (10%), midterm exam (15%), assignment (10%), final exam (15%), project and participation (50%)
Reading lists	1. Artikel Penelitian biodiversitas hayat Indonesia, Text book Economic Botany karangan Beryl Britnall dkk 2. Stearn WT. 1998. Botanical Latin. Timber Press, Inc. Portland Oregon 3. Baumgardt JP. 1994. How to Identify Flowering Plant Family. Timber Press, Inc. Portland Oregon 4. Carvalho, L. M. M. (Ed.). (2024). The Victorians: A Botanical Perspective, Volume 1. Springer Cham.