MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN **FACULTY OF MATHEMATICS AND NATURAL SCIENCES** **BACHELOR OF BIOLOGY PROGRAMME**	**COURSE CODE :** **D10D-50601**
Module designation	Bioprospection of Beneficial Plants	
Semester in which the module is taught	5	
Persons responsible for the module	1. Dr. Budi Irawan, M.Si 2. Drs. Joko Kusmoro, MP 3. Dr. Mohamad Nurzaman, M.Si	
Medium of instruction	Indonesian	
Relation to curriculum	Compulsory course of interest of specialization	
Teaching methods	Lectures, discussion, and collaborative learning	
Workload	Total workload : 5440 minutes = 90,67 hour Lectures, discussion, and collaborative learning : 2 x 50 minutes x 16 weeks = 1600 minutes = 26,67 hours 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	Plant Structure and Development 1	
Module objectives/intended learning outcomes	1. Know and understand the concept of plant bioprospecting along with protocols related to plant biological resources 2. Know and understand the local wisdom of the community in utilizing plant heart resources 3. Students are able to understand, identify and explore the potential of medicinal plants, food and vegetables, aromatics and vegetable pesticides, spices and cooking spices, dye fibers and tannins, wood and bamboo materials, ornamental plants	
Contents	This course studies biodiversity and bioprospection of plants with potential as medicines, food and vegetables, aromatics and vegetable pesticides, spices and cooking spices, fibers, dyes and tannins, wood and bamboo materials, ornamental plants and those with economic value. This course also studies the grouping of plants based on chemical content (Chemotaxonomy), phytochemical profiles and secondary metabolites as well as the introduction and use of useful plants. Apart from that, several protocols related to Plant Biological Resources, Biospiration and local wisdom regarding the use of Plant SDH were also studied	
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 (20%), midterm exam (30%), assignment (20%), and final exam (30%)	
Reading lists	1. Batabyal, Amitrajeet A. and Peter Nijkamp. 2013. Biodiversity Prospecting over Time and under Uncertainty: A Theory of Sorts. TI 2013-163/VIII. Amsterdam, the Netherlands. 2. Covention on Biological Diversity. 2011. The Tkarihwaie:Ri Code of Ethical Conduct to Ensure Respect for the Cultural and Intellectual Heritage of Indigenous and Local Communities. Montreal, Canada: Secretariat of the CBD 3. Gunawan, W. dan Mukhlisi. 2014. Bioprospeksi: Upaya pemanfaatan tumbuhan obat secara berkelanjutan di kawasan konservasi. Jakarta: Kementerian Lingkungan Hidup dan Kehutanan 4. Moran, Katy, Steven R. King, and Thomas J. Carlson. 2001. “Biodiversity Prospecting: Lessons and Prospects.” Annual Review of Anthropology 30:505–26.	