MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN **FACULTY OF MATHEMATICS AND NATURAL SCIENCES** **BACHELOR OF BIOLOGY PROGRAMME**	**COURSE CODE :** **D10D-6001**
Module designation	Bioethics	
Semester in which the module is taught	6	
Persons responsible for the module	1. Prof. Dr. Johan Iskandar, M.Sc. 2. Prof. Dr. Sunardi, M.Si.	
Medium of instruction	Indonesian and English	
Relation to curriculum	Compulsory course	
Teaching methods	Lectures, discussions, collaborative learning, project based learning	
Workload	Total workload : 5440 minute = 90.67 hour Lecture and discussion : 2 x 50 minute x 16 week = 1600 minute = 26.67 hour Exercises : 2 x 60 minute x 16 week = 1920 minute = 32 hour Self-study : 2 x 60 minute x 16 week = 1920 minute = 32 hour	
Credit points	2.00 (3.62 ECTS)	
Required and recommended prerequisites for joining the module	-	
Module objectives/intended learning outcomes	1. Able to analyze general principles of bioethics and their philosophical foundations in biology. 2. Able to identify bioethical principles in the sustainable and conservation-based management of biological resources. 3. Able to analyze the application of bioethical principles in biological control and ecosystem management. 4. Able to analyze bioethical aspects in medical research and the use of laboratory animals, including regulations and animal welfare. 5. Able to evaluate modern bioethical issues such as genetic engineering of biological weapons and their impact on the environment and humanity. 6. Able to evaluate the relationship between bioethics and environmental policy in addressing ecosystem damage issues. 7. Able to interpret ethical principles in scientific publications and intellectual property protection in the field of biology. 8. Able to formulate various cases of ethical violations in research and publications and develop ethical arguments based on literature reviews.	
Contents	This course discusses the development of bioethics in Indonesia and around the world, the ethics of using living creatures as objects of biological research, including in the fields of science, the environment, and biotechnology, ethics in genetic manipulation and the use of its products in the fields of food, health, agriculture, and the environment.	
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. Epstein, R. 1998. *Ethical and Spiritual Issues in Genetic Engineering.* Ahimsa Voice. 5(4): 6-7 2. Lindell, Thomoas J. et al. 1997. *Ethical, Legal, and Social Issues in the Undergraduate Biology Curriculum. Journal of College Science Teaching*, 26(5), 345 -349. 3. Beauchamp, T. L., & Childress, J. F. (2019). Principles of Biomedical Ethics (Edisi ke-8). Oxford University Press. 4. Mappes, T. A., Ball, L. D., & Shaw, B. K. (2023). Biomedical Ethics (Edisi ke-9). McGraw-Hill.