

MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME	COURSE CODE: D10D-50608
Module designation	Ecotoxicology	
Semester in which the module is taught	5	
Person (s) responsible for the module	<ol style="list-style-type: none"> 1. Prof. Sunardi, Ph.D 2. Dr. rer. nat. Tri Dewi K. Pribadi 3. Dr. Keukeu Kaniawati Rosada 	
Medium of instruction	Indonesian	
Relation to curriculum	Elective course	
Teaching methods	Lectures, discussions, cooperative learning, and inquiry learning	
Workload	<p>Total workload : 5440 minutes = 90.67 hours</p> <p>Lectures, discussions, cooperative learning, and inquiry learning : 2 x 50 minutes x 16 weeks = 1600 minutes = 26.67 hours</p> <p>Exercises : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours</p> <p>Self-study : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours</p>	
Credit points	2,00 (3,62 ECTS)	
Required and recommended prerequisites for joining the module	<ul style="list-style-type: none"> - Basic Biology - Animal Physiology - Aquatic Ecology 	
Module objectives/intended learning outcomes	<ol style="list-style-type: none"> 1. Able to explain the scope of ecotoxicology 2. Able to explain toxicant pathways 3. Able to explain the sources and types of toxicants 4. Able to classify toxicant effects 5. Able to conduct acute and subchronic toxicity tests 	
Contents	The Ecotoxicology course discusses the scope of ecotoxicology, toxicant pathway/fate, sources and types of toxicants, classification of toxicants, and conducting acute and subchronic toxicity tests. After taking this course, students are able to analyze environmental damage starting from the transformation of toxicants to exposed organisms to the use of organisms and technology for environmental protection.	
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 Quizzes (25%), Assignments (25%), midterm exam (25%), and final exam (25%).	
Reading lists	<ol style="list-style-type: none"> 1. Elliott, J.E, C.A. Bishop, and C.A. Morrissey. 2011. Wildlife Ecotoxicology. Springer. England. 2. Gagne, F. 2014. Biochemical Ecotoxicology. Elsevier. England. 3. Walker, C. 2014. Ecotoxicology: Effects of Pollutants on the Natural Environment. CRC Press. England. 4. Walker, C.H., R.M. Sibly, S.P. Hopkin, and D.B. Peakall. 2012. CRC Press. England. 	