MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME	COURSE CODE D10D0042
Module designation	Bioremediation of Agro-Industry and Polluted Waters	
Semester(s) in which the module is taught	6	
Person(s) responsible for the module	 Dr. Nia Rossiana Dr.rer.nat. Tri Dewi K. Pribadi Dr. Suryana 	
Medium of instruction	Indonesian	
Relation to curriculum	Elective course	
Teaching methods	Lectures, discussions, cooperative learning, and problem based learning	
Workload	Total workload : 8160 minutes = 136 hours	
	Lectures, discussions, cooperative learning, and problem based learning Exercises Self-study: 3 x 50 minutes x 16 weeks = 2400 minutes = 40 hours: 3 x 60 minutes x 16 weeks = 2880 minutes = 48 hours : 3 x 60 minutes x 16 weeks = 2880 minutes = 48 hours	
Credit points	3,00 (5,43 ECTS)	
Required and recommended prerequisites for joining the module	 Animal Physiology Plant Physiology Microbiology General Ecology 	
Module objectives/intended learning outcomes	 Students are able to explain the basic concepts of recovery for damaged ecosystems caused by anthropogenic and xenobiotic activities using biological agents (animals, plants, microbes). Students are able to choose recovery methods for damaged ecosystems caused by anthropogenic and xenobiotic activities using biological agents (animals, plants, microbes). 	
Contents	This course covers the concepts and methods of restoring ecosystems polluted by hazardous toxic materials (B3), xenobiotics, toxic contaminants in the form of organic and or inorganic materials, using biological agents.	
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 (20%), Assignments (20%), UTS (30%), and UAS (30%).	
Reading lists	1. Crawford, R.L. and Crawford, D. L. 2005. Bioremediation: Principles and Applications. Cambridge: Cambridge University Press.	