

UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND SCIENCE DEPARTMENT OF BIOLOGY EDUCATION

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Bachelor of Science in Biology

MODULE HANDBOOK

Module name:	Laboratory Work in Environmental Management						
Module level, if applicable:	Undergraduate						
Code:	BIM6175						
Sub-heading,if applicable:	-						
Classes, if applicable:	-						
Semester:	5 th						
Module coordinator:	Dr. Tien Aminatun						
Lecturer(s):	Dr. Ir. Suhartini, Dr. Tien Aminatun						
Language:	Bahasa Indonesia						
Classification within the curriculum:	Elective Course						
Teaching format / class hours per week during the semester:	100 minutes lectures, 120 minutes structured activities, and 120 minutes individual study per week						
Work load:	Total workload is 91 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes individual study per weekfor 16 weeks.						
Credit points:	1 SKS (2 ECTS)						
Prerequisites course(s):	Ecology						
Program Learning Outcomes:	 Comprehensively mastering Biology (core biology) to solve problems in the field of Biology (problem-solving) and to underlie the concepts of related sciences Mastering the techniques and methodologies in Biology as well as familiar with the equipment used in Biology laboratories in order to get the knowledge of Biology (how we know what we know) Being adaptive, creative, innovative in applying the concepts of Biology and other related fields Being skillful in applying the techniques used in laboratories and daily life Being able to work and create jobs/being an entrepreneur in the field of Biology Having managerial ability to supervise and evaluate workers and optimizing the networks in order to develop professionalism Possessing scientific skills to support the ability to speak in local, national, and international forums 						
Course Outcomes	After taking this course, the students have ability to: CO1. Explain, analyze and determine appropriate						

		environmen	tal manageme	ent instruments	in the			
		learning me	thods	rough explorato	iy-inductive			
	CO2	Explain,	analyze, and	d determine	appropriate			
		environmen	tal manageme	ent instruments	s in an			
		ecotourism	environment th	rough explorato	ry-inductive			
		learning me	thods.					
	CO3	Explain,	analyze, and	d determine	appropriate			
		environmen	tal managemen	t instruments in	the social			
		environmen	t through exp	oloratory-inductive	e learning			
	004	methods.		l eleterresia e				
	CO4. Explain, analyze, and determine appropries environmental management instruments in an industry and appropriate through exploratory industry loss							
		methods	t through exp		elleanning			
	CO5	Explain	analyze, and	d determine	appropriate			
		environmen	environmental management instruments in the mining					
		environmen	t through exp	oloratory-inductive	e learning			
		methods.	•		C C			
	CO6.	Explain,	analyze, and	d determine	appropriate			
		environmen	tal management	instruments in a	residential			
		environmen	t through exp	oloratory-inductive	e learning			
	007	methods.						
	007	of independ	in a learnwork a	na communicale	ne results			
		or independ	ent and group w		morum			
	This course develops the ability to explore and analyze							
	envir	onmental ma	anagement instr	uments applied	in various			
Content:	environmental conditions through field activities and develop							
	The ability to work in teamwork to determine environmental							
	management instruments that will be applied in various							
	The final mark will be weight as follow:							
	No	0.0	Assessment	Assessment	Weight			
			Object	Technique	Weight			
Study/exam achievements:	1	CO1 to	Observed	Survey,	100%			
		CO7	attitudes ,	test,				
			knolwedge,	rubrics and				
			and skills	manuals				
				Total	100%			
Forms of media:	Real	objects, mult	imedia	an Duvita Lladi Du				
	A. IVIITCHEII, B; B. Setiawan, dan Dwita Hadi Kanmi. 2003.							
	(Teriemahan) Voovakarta: Gadiah Mada University							
	Press							
Reference:	B. Wurvadi, 1999, Pengelolaan Lingkungan: Paradigma							
	Keilmuan dan Tantangan bagi Pembangunan di							
	Indoneisa. Pidato Pengukuhan Guru Besar Ilmu							
	Lingkungan FMIPA UNY.							

C. Undang-undang Republik Indonesia Nomor 32 Tahun 2009 tentang Perlindungan dan Pengelolaan
Lingkungan Hidup.
D. Miller, G.T. 2016. <i>Environmental Science</i> . 15 th Edition. Cencage Learning. Inc.
E. Miller, Jr.G.T.and Spoolman, S.E.2008. <i>Living in the Environment: Concepts, Connections, and Solutions</i> , 16 th Edition. Cencage Learning, Inc.
F. Watt, K. E. F. 1973. <i>Principles of Environmental Science</i> . New York: Mcraw-Hill Book Company.
G. Soemarwoto, O. 1994. <i>Ekologi, Lingkungan Hidup dan Pembangunan</i> . Jakarta: Penerbit Djambatan.
H. Soemarwoto, O. 2004. <i>Atur Diri sendiri, Paradigma Baru Pengelolaan Lingkungan Hidup</i> . Yogyakarta: Gadjah Mada University Press.
I. Fandeli, C. 2012. Analisis Mengenai Dampak Lingkungan, Prinsip Dasar dalam Pembangunan. Yogyakarta: Gadjah Mada Press.

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11
CO1				✓	✓	✓	✓		✓		
CO2				✓	✓	✓	✓		✓		
CO3				✓	✓	✓	✓		✓		
CO4				✓	✓	✓	✓		✓		
CO5				✓	✓	✓	✓		✓		
CO6				✓	✓	✓	✓		✓		
C07										\checkmark	\checkmark