



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 week for 16 weeks.
Credit points:	1 SKS (2 ECTS)
Prerequisites course(s):	Ecology
Program Learning Outcomes:	<ol style="list-style-type: none"> 4. Comprehensively mastering Biology (core biology) to solve problems in the field of Biology (problem-solving) and to underlie the concepts of related sciences 5. 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) 6. Being adaptive, creative, innovative in applying the concepts of Biology and other related fields 7. Being skillful in applying the techniques used in laboratories and daily life 9. Being able to work and create jobs/being an entrepreneur in the field of Biology 10. Having managerial ability to supervise and evaluate workers and optimizing the networks in order to develop professionalism 11. 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

	<p>environmental management instruments in the agricultural environment through exploratory-inductive learning methods</p> <p>CO2. Explain, analyze, and determine appropriate environmental management instruments in an ecotourism environment through exploratory-inductive learning methods.</p> <p>CO3. Explain, analyze, and determine appropriate environmental management instruments in the social environment through exploratory-inductive learning methods.</p> <p>CO4. Explain, analyze, and determine appropriate environmental management instruments in an industrial environment through exploratory-inductive learning methods.</p> <p>CO5. Explain, analyze, and determine appropriate environmental management instruments in the mining environment through exploratory-inductive learning methods.</p> <p>CO6. Explain, analyze, and determine appropriate environmental management instruments in a residential environment through exploratory-inductive learning methods.</p> <p>CO7. Cooperate in a teamwork and communicate the results of independent and group work in a discussion forum</p>															
Content:	<p>This course develops the ability to explore and analyze environmental management instruments applied in various environmental conditions through field activities and develop the ability to work in teamwork to determine environmental management instruments that will be applied in various regions with different environmental conditions.</p>															
Study/exam achievements:	<p>The final mark will be weight as follow:</p> <table border="1" data-bbox="620 1360 1430 1602"> <thead> <tr> <th>No</th> <th>CO</th> <th>Assessment Object</th> <th>Assessment Technique</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CO1 to CO7</td> <td>Observed attitudes , knolwedge, and skills</td> <td>Survey, test, rubrics and manuals</td> <td>100%</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO1 to CO7	Observed attitudes , knolwedge, and skills	Survey, test, rubrics and manuals	100%				Total	100%
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1	CO1 to CO7	Observed attitudes , knolwedge, and skills	Survey, test, rubrics and manuals	100%												
			Total	100%												
Forms of media:	Real objects, multimedia															
Reference:	<p>A. Mitchell, B; B. Setiawan, dan Dwita Hadi Rahmi. 2003. <i>Pengelolaan Sumberdaya dan Lingkungan</i> (Terjemahan). Yogyakarta: Gadjah Mada University Press.</p> <p>B. Wuryadi. 1999. <i>Pengelolaan Lingkungan: Paradigma Keilmuan dan Tantangan bagi Pembangunan di Indoneisa</i>. Pidato Pengukuhan Guru Besar Ilmu Lingkungan FMIPA UNY.</p>															

