



**UNIVERSITAS NEGERI YOGYAKARTA
FACULTY OF MATHEMATICS AND SCIENCE
DEPARTMENT OF BIOLOGY EDUCATION**

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Bachelor of Science in Biology	MODULE HANDBOOK
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Module name:	Laboratory Work in Environmental Health
Module level, if applicable:	Undergraduate
Code:	
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	4 th
Module coordinator:	Dra. Yuliati, M.Kes.
Lecturer(s):	Dra. Yuliati, M.Kes. & dr. Tutiek Rahayu, M.Kes.
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
Workload:	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):	-
Program Learning Outcomes (PLO)	<p>4. Comprehensively mastering Biology (core biology) to solve problems in the field of Biology (problem-solving) and to underlie the concepts of related sciences</p> <p>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)</p> <p>6. Being adaptive, creative, innovative in applying the concepts of Biology and other related fields</p> <p>7. Being skillful in applying the techniques used in laboratories and daily life</p> <p>10, Having managerial ability to supervise and evaluate workers and optimizing the networks in order to develop professionalism</p>
Targeted learning outcomes:	<p>CO1. Identifikasi terkait sanitasi lingkungan</p> <p>CO2. Berfikir alternative dan memecahkan permasalahan terkait</p>

	sanitasi lingkungan. CO3 Terbentuk sikap, bertanggung jawab dan mampu berkerja sama dalam kelompok untuk memecahkan permasalahan sanitasi lingkungan dalam bekerja laboratorium.																				
Content:	Surveillans epidemik nyamuk Hygiene sanitasi makanan Air bersih Group Project																				
Study / exam achievements:	The final mark will be weight as follow: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No</th> <th style="width: 15%;">CO</th> <th style="width: 30%;">Assessment Object</th> <th style="width: 25%;">Assessment Technique</th> <th style="width: 25%;">Weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CO1 to CO 3</td> <td>Observed attitudes , knolwedge, and skills</td> <td>Survey, test, rubrics and manuals</td> <td>75%</td> </tr> <tr> <td>2</td> <td>Final term</td> <td></td> <td></td> <td>25%</td> </tr> <tr> <td colspan="4" style="text-align: right;">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO1 to CO 3	Observed attitudes , knolwedge, and skills	Survey, test, rubrics and manuals	75%	2	Final term			25%	Total				100%
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2	Final term			25%																	
Total				100%																	
Forms of media:	Board, LCD Projector, Laptop/Computer dan Alat Laboratorium Kesehatan Lingkungan.																				
References:	Azrul Azwar. 1995. <i>Pengantar Ilmu Kesehatan Lingkungan</i> . Mutiara Sumber Widya, Jakarta. Bos Nick, et al. 1995. <i>Workplace Health and Safety Handbook</i> . 3 rd Edition. Safe Work College of Workplace Health and Safety. Ichsan, Yuliati dan Sri Rejeki, 1994. <i>Ilmu Kesehatan dan Gizi</i> . Modul 1 - 6. Dirjen. Dikdasmen. Depdilbud., Jakarta. Rowland, A.J. and Cooper, P. 1983. <i>Environment and Health</i> . Edward Arnold Publisher Ltd., Sydney. Getchell L.H., Pippin, G.D., Varnes, J.W. 1991. <i>Health</i> . Houghton Mifflin Company, Boston. Miller, G.T. 2000. <i>Living in the Environment : An Introduction to Environmental Science</i> . Wordsworth Publishing Company, California																				

PLO and CO mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11
CO 1				√	√						
CO 2				√	√	√					
CO 3							√			√	