UNIVERSITAS NEGERI YOGYAKARTA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF SCIENCE EDUCATION
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Bachelor of Education in Science **MODULE HANDBOOK**

Module name:	**Lab work of General Biology 2**
Module level, if applicable:	Undergraduate
Code:	IPA6111
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	1
Module coordinator:	Asri Widowati, M.Pd
Lecturer:	Asri Widowati, M.Pd., Susilowati, M.Pd.Si., Wita Setianingsih, M.Pd
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory course
Teaching format / class hours per week during the semester:	100 minutes lectures and 120 minutes structured activities per week.
Workload:	Total workload is 90.67 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 (1.5 ECTS)
Prerequisites course(s):	-
Targeted learning outcomes:	After taking this course the students have ability to: CO1. Show independence and responsible in carrying out individual tasks and group assignments CO2. show independent, systematic and measurable performance CO3. make decisions about solving problems related to uncovering phenomena and discoveries about the concept of cytology (cells & cell growth / mitosis; diffusion, osmosis & plasmolisis processes in plant

<table>
<tr><td></td><td>cells), microorganisms (microorganism culture techniques; ranging from sterilization techniques, preparation of microorganism isolation media and techniques); Genetics (morphology & life cycle of Drosophila flies, and inheritance patterns) in an activity with observation & experiment methods, the results of which are analyzed and interpreted, both in writing and in writing.
CO4. responsible for achieving the results of group work</td></tr>
<tr><td>Content:</td><td>This course examines the characteristic of concept of cytology (cells & cell growth / mitosis; diffusion, osmosis & plasmolisis processes in plant cells), microorganisms (microorganism culture techniques; ranging from sterilization techniques, preparation of microorganism isolation media and techniques); Genetics (morphology & life cycle of Drosophila flies, and inheritance patterns).</td></tr>
<tr><td>Study / exam achievements:</td><td>The final mark will be weight as follow:
<table><tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr><tr><td>1</td><td>CO2, CO3 and CO4</td><td>a. performance
b. pretest
c. report
d. post test</td><td>Presentation / written test</td><td>30%
15%
15%
25%</td></tr><tr><td colspan="4">Total</td><td>100%</td></tr></table></td></tr>
<tr><td>Forms of media:</td><td>Board, LCD Projector, Laptop/Computer</td></tr>
<tr><td>Literature:</td><td>BSCS. 2006. Green Version. New York: Mgraw Hill.
Champbell, Neil A., Jane B. Reece, & Lawrence G. Mitchell. 2004. Biology. Jakarta: Erlangga.
Solomon, Berg, dan Martin.2008. Biology. Thompson Brooks/Cole
Laidler, Greg. 1991.SCIEX"Science Exercises Emphassing Process and Thinking Skilss". Melbourne: Longman, Cheshire Pty.Limited.
Lum How Kee. 2000. Biology The Living Science. Singapore: Pearson Education Asia Pte Ltd.
Weinberg, Stanley L. & Herbert J. Stoltze. 1974. Action Biology.Boston: Allyn and Bacon, Inc.
Fried, George H. & George J. Hademenos. 2006. Biologi. Erlangga. Jakarta. 386h.
Suryo,1986. Genetika.Gajah Mada University Pres.
Solomon, Berg, dan Martin.2008. Biology. Thompson Brooks/Cole
Campbell, Reece, Mitchel. 1999.Biology. terjemahan. Jakarta: Erlangg</td></tr>
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PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1		✓										
CO2								✓				
CO3										✓		
CO4												✓