



**UNIVERSITAS NEGERI YOGYAKARTA  
BIOLOGY EDUCATION**

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<b>Bachelor of Education in Biology</b>	<b>MODULE HANDBOOK</b>
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Module name:	Laboratory Work for Biometri
Module level, if applicable:	Undergraduate
Code:	BIO 6128
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	2 <sup>th</sup>
Module coordinator:	Suhandoyo
Lecturer(s):	Suhandoyo
Language:	Indonesian
Classification within the curriculum:	Even
Teaching format / class hours per week during the semester:	170 minutes activities per week.
Workload:	170 minutes individual study per week for 16 weeks.
Credit points:	1 sks
Prerequisites course(s):	-
Program Learning Outcome(s)	PLO 4. Mastering basic Biology and other relevant knowledge with mathematics and natural sciences PLO 7. Being able to do independent laboratory work and fieldwork
Targeted learning outcomes:	CO.1. Perform the application of descriptive statistical analysis techniques to process biological research data. CO.2. Perform the application of parametric and nonparametric inferential statistical analysis techniques to process biological research data for the purpose of comparing two mean values. CO.3. Perform the application of parametric and non parametric inferential statistical analysis techniques to process biological research data for the purpose of comparing k average values. CO.4. Perform the application of parametric and non parameteric inferential statistical analysis techniques to process biological research data for the purpose of determining the pattern of relationships between independent and dependent variables.
Content:	Implementing statistics to analyze biological research data includes the application of descriptive statistical analysis techniques, parametric and nonparametric inferential statistics.
Study / exam achievements:	Attitude assessment is carried out at each meeting by observation and/or self-assessment techniques using the assumption that basically every student has a good attitude. The student is marked very good or not good attitude if they show it significantly compared to other students in general. The result of attitude

	<p>assessment is not taken into account in the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.</p> <table border="1"> <thead> <tr> <th>CO</th> <th>Assessment Object</th> <th>Assessment Technique</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>CO1,</td> <td>Sub-competence test 1</td> <td rowspan="4">Written test</td> <td>20%</td> </tr> <tr> <td>CO2,</td> <td>Sub-competence test 2</td> <td>30%</td> </tr> <tr> <td>CO3,</td> <td>Sub-competence test 3</td> <td>30%</td> </tr> <tr> <td>CO4.</td> <td>Sub-competence test 4</td> <td>20%</td> </tr> <tr> <td colspan="3">Total</td> <td>100%</td> </tr> </tbody> </table>	CO	Assessment Object	Assessment Technique	Weight	CO1,	Sub-competence test 1	Written test	20%	CO2,	Sub-competence test 2	30%	CO3,	Sub-competence test 3	30%	CO4.	Sub-competence test 4	20%	Total			100%
CO	Assessment Object	Assessment Technique	Weight																			
CO1,	Sub-competence test 1	Written test	20%																			
CO2,	Sub-competence test 2		30%																			
CO3,	Sub-competence test 3		30%																			
CO4.	Sub-competence test 4		20%																			
Total			100%																			
Forms of media:	Board, LCD Projector, Laptop/Computer, SPSS program																					
References:	<ol style="list-style-type: none"> <li>1. Kirk, R.E. 1995. <i>Experimental design: Procedures for behavioral science</i>. Pasific Grove: Brooks/Colc l'ublishing Conrpanv</li> <li>2. Moh Nazir. (1988). <i>Metode penelitian</i>. Jakarta: Galia Indonesia</li> <li>3. Sudjana. (1982). <i>Disain dan analisis eksperimen</i>. Bandung: Tarsito.</li> <li>4. Vincent Gaspersz. (1991). <i>Teknik analisis dalam penelitian percobaan</i>. Jilid 1. Bandung: Tarsito</li> <li>5. Fisher, R.A. and Yates, F. (1974). <i>Statistical tabels for biological, agricultural, and medical research</i>. New York: Hafner.</li> <li>6. Gomez, K.A. and Gomez, A.A. (1984). <i>Statistical procedures for agricultural research</i>. 2-nd ed. New York: John Wiley &amp; Sons.</li> <li>7. Nasution, A.H. dan Barizi. (1980) <i>Metode statistika untuk penarikan kesimpulan</i>. Ed keempat. Jakarta: Gramedia.</li> <li>8. Siegel, S. (1956). <i>Nonparameteric statistics for the beavioral sciences</i>. Tokyo: Mc-Graw-Hill Kogakusha, Ltd.</li> <li>9. Steel, R.G.D. and Torrie, J.H. (1980). <i>Principles and procedures of statistics: A biometrical approach</i>. 2-nd ed. New York: Mc-Graw-Hill Book Company.</li> </ol>																					

### 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	PLO 12
CO 1				V		V						
CO 2				V		V						
CO 3				V		V						
CO 4				V		V						