



# UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND SCIENCE

DEPARTMENT OF BIOLOGY EDUCATION

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<b>Bachelor of Science in Biology</b>	<b>MODULE HANDBOOK</b>
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Module name:	Biometry
Module level, if applicable:	Undergraduate
Code:	BIO6227
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	Even
Module coordinator:	Suhandoyo, MS.
Lecturer(s):	Suhandoyo, MS., Yuni Wibowo, MPd.,
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format / class hours per week during the semester:	100 minutes lectures, 120 minutes structured activities, and 120 minutes individual studyper week
Work load:	Total workload is 91 hours per semester which consists of 100 minuteslectures, 120 minutes structured activities, and 120 minutes individual study per weekfor 16 weeks.
Credit points:	2 SKS (3 ECTS)
Prerequisites course(s):	Statistics
Perogram Learning Outcomes:	<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>6. Being adaptive, creative, innovative in applying the concepts of Biology and other related fields</p> <p>9. Being able to work and create jobs/being an entrepreneur in the field of Biology</p> <p>11. Possessing scientific skills to support the ability to speak in local, national, and international forums</p>
Course Outcomes	<p>After taking this course, the students have ability to:</p> <p>CO1. Applying descriptive analysis techniques to process biological</p>

	<p>research data.</p> <p>CO2.Applying parametric and non parametric inferential statistical analysis techniques to process biological research data for the purpose of comparing two average values.</p> <p>CO3.Applying parametric and non parametric inferential statistical analysis techniques to process biological research data for the purpose of comparing k average values.</p> <p>CO4.Applying parametric and non parametric inferential statistical analysis techniques to process biological research data for the purpose of determining the pattern of relationships between dependent and the independent variables.</p>															
Content:	This course contains the application of statistics to analyze biological research data which includes the application of data analysis using descriptive statistical analysis techniques, inferential statistical analysis parametric and nonparameric.															
Study/examachievements:	<p>The final mark will be weight as follow:</p> <table border="1"> <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 CO12</td> <td>Observed attitudes , knolwedge, and skills</td> <td>Survey, test, rubrics and manuals</td> <td>100%</td> </tr> <tr> <td colspan="4">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO1 to CO12	Observed attitudes , knolwedge, and skills	Survey, test, rubrics and manuals	100%	Total				100%
No	CO	Assessment Object	Assessment Technique	Weight												
1	CO1 to CO12	Observed attitudes , knolwedge, and skills	Survey, test, rubrics and manuals	100%												
Total				100%												
Forms of media:	Real objects, model, multimedia															
Reference:	<ol style="list-style-type: none"> <li>Kirk, R.E. 1995. <i>Experimental design: Procedures for behavioral science</i>. Pasific Grove: Brooks/Colc l'ublishing Conrpanv</li> <li>Moh Nazir. (1988). <i>Metode penelitian</i>. Jakarta: Galia Indonesia</li> <li>Sudjana. (1982). <i>Disain dan analisis eksperimen</i>. Bandung: Tarsito.</li> <li>Vincent Gaspersz. (1991). <i>Teknik analisis dalam penelitian percobaan</i>. Jilid 1. Bandung: Tarsito</li> <li>Fisher, R.A. and Yates, F. (1974). <i>Statistical tabels for biological, agricultural, and medical research</i>. New York: Hafner.</li> <li>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>Nasution, A.H. dan Barizi. (1980) <i>Metode statistika untuk penarikan kesimpulan</i>. Ed keempat. Jakarta: Gramedia.</li> <li>Siegel, S. (1956). <i>Nonparameteric statistics for the beavioral sciences</i>. Tokyo: Mc-Graw-Hill Kogakusha, Ltd.</li> <li>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

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