



UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION

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Bachelor of Science in Mathematics

MODULE HANDBOOK

Module name:	Statistical Computing
Module level,if applicable:	Undergraduate
Code:	MAT6367
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	6 th
Module coordinator:	Retno Subekti, M.Sc.
Lecturer(s):	Retno Subekti, M.Sc.
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective course
Teaching format/class hours perweek during the semester:	150 minutes lectures and 180 minutes structured activities per week.
Workload:	Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self-study per week for 16 weeks.
Creditpoints:	3
Prerequisites course(s):	Advanced Statistics (MAT6309)
Course outcomes:	CO1. Demonstrate collaborative attitude and independence in carrying out individual tasks and group assignments. CO2. Communicate ideas in solving mathematical problems in writing or verbally. CO3. Understand the regression concept in the analysis of the relationship of two variables such as simple linear

	<p>regression and multiple linear regression</p> <p>CO4. Students are able to do a descriptive analysis and basic.inferential analysis using R Program,a free-license statistical software.</p>																							
Content:	<p>This statistical computing subject contains an exploration of the use of the R program statistical software for statistical data analysis, both exploration analysis and confirmation analysis. Several analyzes which are discussed such as inference for two populations, ANOVA, regression, goodness of fit.</p>																							
Study/exam achievements:	<p>CO1: 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 given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of 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> <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 rowspan="5">1</td> <td rowspan="5">CO2, CO3, CO4</td> <td>a. Individual Assignment</td> <td rowspan="5">Written test</td> <td>15%</td> </tr> <tr> <td>b. Group Assignment</td> <td>10%</td> </tr> <tr> <td>c. Quiz</td> <td>20%</td> </tr> <tr> <td>d. Mid-Term Examination</td> <td>25%</td> </tr> <tr> <td>e. Final Examination</td> <td>30%</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	CO2, CO3, CO4	a. Individual Assignment	Written test	15%	b. Group Assignment	10%	c. Quiz	20%	d. Mid-Term Examination	25%	e. Final Examination	30%				Total	100%
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Forms of media:	Board, LCD Projector, Laptop/Computer																							
Literature:	1. M. J. Crawley, 2005, <i>Statistics: An Introduction using R</i> ,																							

