



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:	Advanced Statistics
Module level,if applicable:	Undergraduate
Code:	MAT6309
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	3 rd
Module coordinator:	Elly Arliani, M.Si.
Lecturer(s):	1. Elly Arliani, M.Si. 2. Retno Subekti, M.Sc. 3. Dr. Djamilah BW 4. Mathilda Susanti, M.Si.
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory course
Teaching format/class hoursperweekduring the semester:	150minutes 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 individual study per week for 16 weeks.
Creditpoints:	3
Prerequisites course(s):	Statistics (MKU 6201)
Course Outcomes:	After taking this course, the students have the ability to: CO1. Demonstrate respect for the views, opinions,or original findings of others.

	<p>CO2. Demonstrate the ability to think critically, creatively, innovatively, and systematically in the development of science and technology, both independently and in groups.</p> <p>CO3. Demonstrate the ability to convey mathematical ideas in writing and verbally based on values of honesty</p> <p>CO4. Understand the estimation of the parameters of two populations</p> <p>CO5. Understand the hypothesis testing of two population parameters.</p> <p>CO6. Understand the hypothesis testing of more than two population parameters.</p> <p>CO7. Understand the use of Chi-Square tests</p> <p>CO8. Understand simple regression analysis</p> <p>CO9. Understand testing of regression model</p> <p>CO10. Understand multiple regression analysis</p> <p>CO11. Understand several nonparametric statistical tests</p> <p>CO12. Resolve the problem of using concepts in advanced statistics, either manually or using statistical software.</p>
<p>Content:</p>	<p>This course discusses parameter estimation for two populations, hypotheses testing for two populations and more than two populations, one-way variance analysis and multiple comparison tests, linear regression, and several hypothesis testing related to nonparametric statistics.</p>
<p>Study/exam achievements:</p>	<p>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>

