



UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION

Jalan Colombo Nomor 1 Yogyakarta 55281
Telepon(0274)565411 Pesawat 217, (0274)565411(TU),fax (0274)548203
Laman:fmipa.uny.ac.id, E-mail: humas_fmipa@uny.ac.id

Bachelor of Science in Mathematics

MODULE HANDBOOK

Module name:	Statistics
Module level,if applicable:	Undergraduate
Code:	MKU 6201
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	1 st
Module coordinator:	Dr. Djamilah Bondan W.
Lecturer(s):	1. Dr. DjamilahBondan W. 2. Endang L., M.S. 3. Elly Arliyani, M.Si.
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory course
Teaching format/class hours perweek 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 self-study per week for 16 weeks.
Creditpoints:	2
Prerequisites course(s):	-
Course outcomes:	After taking this course, the students have the ability to: CO1. Responsible for carrying out individual tasks and group assignments. CO2. Search for data from sources on the internet and

	<p>present it using certain software.</p> <p>CO3. Explain and present data properly.</p> <p>CO4. Understand the basic concepts, principles, procedures/algorithms in describing data.</p> <p>CO5. Calculate the probability of an event.</p> <p>CO6. Understand discrete and continuous random variables and their distribution.</p> <p>CO7. Understand parameter estimation.</p> <p>CO8. Understand hypothesis testing.</p> <p>CO9. Resolve problems related to parameter estimation and hypothesis testing, both manually and using software such as Excel and SPSS.</p>										
Content:	<p>This course contains a discussion of (1) the concepts of statistics and role of statistics; (2) methods for collecting and presenting data; (3) calculation and meaning of measures of central tendency, measures of variation, and measures of location; (3) the basics of probability theory; (5) random variables and their distributions; (6) sampling distribution; (7) parameter estimation; and (8) tests of hypothesis.</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" data-bbox="621 1717 1414 1875"> <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>CO2, CO3</td> <td>Individual assignment and presentation</td> <td>Observation</td> <td>10%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO2, CO3	Individual assignment and presentation	Observation	10%
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