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:	Mathematical Statistics
Module level,if applicable:	Undergraduate
Code:	MAT6323
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	4th
Module coordinator:	Dra. Mathilda Susanti, M.Si.,
Lecturer(s):	1. Dra. Mathilda Susanti, M.Si., 2. Dra. Rosita Kusumawati, M.Si.
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory 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):	Probability Theory (MAT6315)
Course outcomes:	After taking this course, the students have the ability to: CO1. Demonstrate respect for the views, opinions or original findings of others. CO2. Demonstrate the ability to think critically, creatively, innovatively, and systematically in the development of

<table>
<tr><td></td><td>science and technology, both independently and in groups.
CO3. Demonstrate the ability to convey mathematical ideas in writing and verbally based on values of honesty
CO4. Explain concepts in mathematical statistics.
CO5. Prove the properties and theorems in mathematical statistics.
CO6. Solve problems by using concepts and the properties or theorems in mathematical statistics.</td></tr>
<tr><td>Content:</td><td>This course discusses the functions of random variables, limiting distributions, sampling distributions, point estimation of a parameter and its properties.</td></tr>
<tr><td>Study/exam achievements:</td><td>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.

The final mark will be weight as follow:

<table>
<tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr>
<tr><td>1</td><td>CO2, CO3</td><td>Presentation</td><td>Observation</td><td>10%</td></tr>
<tr><td>2</td><td>CO4, CO5, CO6</td><td>a. Individual assignment
b. Group assignment
c. Quiz
d. Mid-Term Examination
e. Final Examination</td><td>Written test</td><td>10%
10%
20%
25%
25%</td></tr>
<tr><td></td><td></td><td></td><td>Total</td><td>100%</td></tr>
</table>
</td></tr>
<tr><td>Forms of media:</td><td>Board, LCD Projector, Laptop/Computer</td></tr>
<tr><td>Literature:</td><td>1. Bain, L.J andEngelhart, M. (1992). Introduction to</td></tr>
</table>

	Probability and Mathematical Statistics. Second Edition, Duxbury Press, Belmont, California. 2. Robert V. Hogg, Allen T. Craig, (1995). *Introduction to Mathematical Statistics*. Pearson Education. 3. Rice, John A., 1995. *Mathematical Statistics and Data Analysis*. Belmont: Duxbury Press.

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1		✓								
CO2			✓							
CO3				✓						
CO4					✓					
CO5						✓				
CO6							✓			