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:	Applied Multivariate Statistics
Module level,if applicable:	Undergraduate
Code:	MAT6336
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	7th
Module coordinator:	Dr. Dhoriva Urwatul Wutsqa, M.Si.
Lecturer(s):	1. Rosita Kusumawati, M.Sc. 2. Dr. Dhoriva Urwatul Wutsqa, 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):	Advanced Statistics (MAT6309)
Course Outcomes:	After taking this course the students have ability to: CO1. Respect other person's ideas regardless their ethnicity, race and religion, CO2. Communicate ideas relatedto the multivariate statistical methods both written and orally.

<table>
<tr><td></td><td>CO3. Explain the basic concept of multivariate statistics and its methods.
CO4. Analyse multivariate data with suitable methods and take the right conclusion.
CO5. Using statistical programme (e.g. SPSS) to analyse multivariate data.</td></tr>
<tr><td>Content:</td><td>This course discusses the aspects of multivariate statistics, inference of mean vector, several multivariate methods and their computation using software (e.g. SPSS)</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 attitudeif they show it significantlycompared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of therequirements 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
CO4</td><td>a. Presentation
b. Task
c. Test I
d. Test II
e. Test III</td><td>Observation
Test</td><td>20%
20%
20%
20%
20%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
</table>
</td></tr>
<tr><td>Formsof media:</td><td>Board, LCD Projector, Laptop/Computer</td></tr>
<tr><td>Literature:</td><td>1. Johnson and Winchern.2007. Applied Multivariate Statistical Analysis. Upper Saddle River, New Jersey : Pearson Prentice Hall
2. Rencher, A.C. 1998. Multivariate Statistical Inference and Applications. New York : John Wiley & Sons, Inc.
3. Kirk, R.E. 1995. Experimental Design: Procedures for the Behavioral Sciences. California: Brooks/Cole Publishing Company.</td></tr>
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PLO and CO mapping

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