UNIVERSITAS NEGERI YOGYAKARTA
GRADUATE SCHOOL
MASTER OF EDUCATION IN MATHEMATICS
Jalan Colombo Nomor 1 Yogyakarta 55281
Telepon(0274)550836, Laman : pm.pps.uny.ac.id, E-mail : pm.pps@uny.ac.id

Master of Education in Mathematics **MODULE HANDBOOK**

Module name:	Statistics
Module level,if applicable:	Graduate
Code:	PAS8203
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	1st
Module coordinator:	Dr. Dhoriva Urwatul Wutsqa
Lecturer(s):	Dr. Dhoriva Urwatul Wutsqa ; Kismiantini, Ph.D
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format:	Lecture: Face-to-face learning, blended learning, discussion, quiz Structured Activities: group assignment/project
Workload:	Lecture: 100 minutes/week Structured activities : 120 minutes/week Self-Study : 120 minutes/week Total : 5440 minutes/semester or 90.67 hours/semester
Credit points:	2
Prerequisites course(s):	-
Course Outcomes	After taking this course the students have ability to: CO1. explain the concept of multivariate statistics and its aspects CO2. do multivariate data analysis and computation CO3. apply the multivariate data analysis and its computation in educational research
Content:	This course studies the concepts and aspects of multivariate analysis, random matrices and vectors, multivariate analysis for comparison of several average vectors, multivariate variance analysis, assumptions in multivariate variance

<table>
<tr><td></td><td>analysis, analysis of variance covariance simulations, assumptions in multivariate covarination analysis</td></tr>
<tr><td>Study/exam achievements:</td><td>The final mark will be weighted 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>CO1
CO2
and
CO3</td><td>a. Group Assignment
b. Quiz
c. Mid Exam
d. Final Exam</td><td>Written test/Online test</td><td>20%

15%
30%
35%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
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</td></tr>
<tr><td>Forms of media:</td><td>Board, LCD Projector, Laptop/Computer, Learning Management System (Besmart, UNY)</td></tr>
<tr><td>Literature:</td><td>A. Pituch, K.A., &Stevens, J.P. 2016. Applied multivariate statistics for the social sciences 6th edition. New York: Routledge.
B. Johnson, R.A., & Wichern, D.W. 2007. Applied multivariate statistical analysis. New Jersey: Pearson Prentice Hall.
C. Meyers, L.S., Gamst, G., & Guarino, A.J. 2006. Applied multivariate research: design and interpretation. London: Sage.</td></tr>
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PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9
CO1				√					
CO2				√					
CO3						√			