

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 Education in Mathematics

MODULE HANDBOOK

Module name:	Statistics					
Module level, if applicable:	Undergraduate					
Code:	MKU6210					
Sub-heading, if applicable:	-					
Classes, if applicable:	-					
Semester:	1 st					
Module coordinator:	Djamilah Bondan W., Dr.					
Lecturer(s):	Djamilah Bondan W., Dr.; Endang L., M.S.; Elly Arliyani, M.Si.					
Language:	Bahasa Indonesia					
Classification within the	Compulsory course					
curriculum:	Compulsory Course					
Teaching format/class hours	100 minutes lectures and 120 minutes structured activities per					
per week during the	week.					
semester:	Week.					
	Total workload is 90.67 hours per semester which consists of					
Workload:	100 minutes lectures, 120 minutes structured activities, and					
	120 minutes self-study per week for 16 weeks.					
Credit points:	2					
Prerequisites course(s):	-					
Targeted learning outcomes:	After taking this course, the students have the ability to:					

	CO1. Responsible for carrying out individual tasks and group						
	assignments.						
	CO2. Explain and present data properly.						
	CO3. Search for data from sources on the internet and present						
	it using certain software.						
	CO4. Understand the basic concepts, principles,						
	procedures/algorithms in describing data.						
	CO5. Calculate the probability of an event.						
	CO6. Understand discrete and continuous random variables						
	and their distribution.						
	CO7. Understand parameter estimation.						
	CO8. Understand hypothesis testing.						
	CO9. Resolve problems related to parameter estimation and						
	hypothesis testing, both manually and using software						
	such as Excel and SPSS.						
	This course contains a discussion of (1) the concepts of						
Content:	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.						
	Attitude assessment is carried out at each meeting by						
Study/exam achievements:	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: No CO **Assessment Assessment** Weight Object **Technique** 1 CO2, Individual Observation 10% CO₃ assignment and presentation 2 a. Class Observation 10% CO4, CO5, participation CO6, (during CO7 discussion and working on the board) 10% b. Quiz Written test c. Assignment Written test 10% d. Mid-Term Written test 20% Examination 3 CO8 Written test 15% Assignment 4 CO4, Final Examination Written test 25% CO5, CO6, CO7, CO8 Total 100% Forms of media: Board, LCD Projector, Laptop/Computer 1. Walpole, Ronald.E . 1995. Alih bahasa oleh Bambang Sumantri. Introductory to Statistics. Gramedia, Jakarta. 2. Triola, Mario F. 2004. Elementary Statistics. New York: Literature: Addison-Wesley. 3. Weiss, Neil A. 1995. Introductory to Statistics. New York: Addison-Wesley.

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1		✓										
CO2			✓									
CO3				✓								
CO4					✓							
CO5					✓							
CO6					✓							
CO7					✓							
CO8					✓							
CO9							✓					