

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:	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.					
	Dr. DjamilahBondan W.					
Lecturer(s):	2. Endang L., M.S.					
	3. Elly Arliyani, M.Si.					
Language	Bahasa Indonesia					
Language: Classification within the	Dallasa Illuullesia					
	Compulsory course					
curriculum:						
Teaching format/class hours	100 minutes lectures and 120 minutes structured activities per week.					
perweek during the						
semester:						
	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.					
Creditpoints:	2					
Prerequisites course(s):	-					
	After taking this course, the students have the ability to:					
Course outcomes	CO1. Responsible for carrying out individual tasks and group					
Course outcomes:	assignments.					
	CO2. Search for data from sources on the internet and					

CO3. Explain and present data properly. 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 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. CO1: Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the									
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observation and / or self-assessment techniques using the	CO1: Attitude assessment is carried out at each								
		observation and / or self-assessment techniques using the							
assumption that basically every student has a good attitude.		assumption that basically every student has a good attitude.							
The student is given a value of very good or not 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		if they show it significantly compared to other students in							
general. The result of attitude assessment is not a component		general. The result of attitude assessment is not a component							
of the final grades, but as one of the requirements to pass the		of the final grades, but as one of the requirements to pass the							
Study/exam achievements: course. Students will pass from this course if at least have a	Study/exam achievements:	course. Students will pass from this course if at least have a							
good attitude.		good attitude.							
The final mark will be weight as follow:		The final mark will be weight as follow:							
No CO Assessment Object Assessment Weight Technique		No	CO	Assessment Object		Weight			
1 CO2, Individual Observation 10%		1				10%			
CO3 assignment and presentation			CO3	_					

	3	C04, C05, C06, C07	a. Class participation (during discussion and working on the board) b. Quiz c. Assignment d. Mid-Term Examination Assignment	Observation Written test Written test Written test Written test	10% 10% 10% 20%			
	4	CO4, CO5, CO6, CO7, CO8	Final Examination	Written test Total	25%			
Forms of media:								
1 omis of media.	Board, LCD Projector, Laptop/Computer							
 Walpole, Ronald.E . 1995. Alih bahasa oleh Bamb Sumantri. Introductory to Statistics. Gramedia, Jakarta. Triola, Mario F. 2004. Elementary Statistics. New Yorkstand 								
Literature:	Addison-Wesley.Weiss, Neil A. 1995. <i>Introductory to Statistics</i>. New York: Addison-Wesley.							

PLO and CO mapping

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