

UNIVERSITAS NEGERI PADANG

FACULTY OF MATHEMATICS AND NATURAL SCIENCES MATHEMATICS DEPARTMENT, MATHEMATICS STUDY PROGRAM

Main Campus Universitas Negeri Padang. Jalan Prof. Dr. Hamka Air Tawar Padang, Sumatera Barat

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Bachelor of Science in Mathematics

MODULE HANDBOOK

Module name:	Elementary Statistics					
Module level, if applicable:	Bachelor					
Code:	MAT1.61.3302					
Subheading, if applicable:	-					
Classes, if applicable:	Elementary Statistics					
Semester	3 rd (third)					
Module coordinator:	Head of Statistics Expertise Group					
Lecturer(s):	Dra. Media Rosha, M.Pd. and Dr. Suherman, M.Pd.					
Language:	Indonesian Language and English					
Classification within the	Compulsory course in the second year (3 rd semester) of					
curriculum:	Bachelor Degree					
Teaching format / class hours per week during the semester:	 a. Lectures: Problem Based Learning with methods such as expository, discussion, and drill. (4 x 50 minutes = 200 minutes) b. Structured assignment: Weekly individual written assignment. (4 x 60 minutes = 240 minutes). c. Individual study (4 x 60 minutes = 240 minutes). 					
Workload:	Total workload is 181,33 hours, which consist of 100 minutes lectures 2 times a week for 16 weeks, 120 minutes structured activities 2 times a week, and 120 minutes individual study 2 times a week, in total 16 weeks per semester, including mid and final exam.					
Credit points:	4 SKS = 6.04 ECTS					
Prerequisites course(s):	None					

Course outcomes:	After taking this course the students have ability to:						
	CO. 1 Use the concept of descriptive and inferential statistics to						
	describe a data set using graphs and numerical						
	summaries						
	CO. 2 Implement the properties of the probability to solve the problem CO. 3 Detect and identify various distributions based on data						
	from a problem						
	CO. 4 Detect, identify and perform appropriate inferential						
	statistical tests from hypothesis testing to obtain correct						
	conclusions based on the results of the hypothesis						
	testing.						
	CO. 5 Apply statistics and develop exploration and data						
	analysis skills to gain insights from real-life problems						
Content:	 Basic Concepts of Statistics: of statistics, data and measurements, population and samples, and parameters and statistics. Descriptive Statistical Analysis: data presentation using tables and graphs and central tendency Probability: Counting rules, conditional probability, independent and dependent probability, Bayes Theorems. Normal distribution, t-distribution, F-distribution, and Chi-Square distribution. Inferential Statistical Analysis: Estimating parameters and testing hypotheses about mean, proportion, and variance. Analysis of Variance: One-way analysis of variance and multiple comparison test. Regression and linear correlation 						
Study/exam achievements:	The final grade will be weighted as follows:						
	The assessment consists of a final exam (40%), a midterm exam (30%), task (20 %), and class activities (10%). The final and midterm exams are essay tests with a closed book (120 minutes).						
	In class, students build the concept (discussion) based on the problem that related to this course. Each student gets a weekly assignment as an individual or group						
Forms of media:	White Board, laptop, Projector, e-learning via elearning2.unp.ac.id, and zoom meeting.						

Literature:	Main:
	1. Bluman. Allan. G. 2012. Elementary Statistics: A Step
	by Step Approach. 6th Edition. New York:
	McGraw-Hill Compenies.
	Supporters:
	1. Walpole, RE. 1982. Pengantar Statistika. (Alih Bahasa:
	Bambang Sumantri). Jakarta: Gramedia.
	2. Sudjana. 1996. Metode Statistika (Edisi ke-6).
	Bandung: Tarsito.
	3. Syafriandi. 1999. Statistika Dasar (Buku Ajar), DIP UNP.
	Padang.

PLO and CO Mapping

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