



MODULE HANDBOOK

Statistical Methods

BACHELOR DEGREE PROGRAM
DEPARTMENT OF MATHEMATICS
FACULTY OF SCIENCE AND DATA ANALYTICS
INSTITUT TEKNOLOGI SEPULUH NOPEMBER

MODULE HANDBOOK

Statistical Methods

Module name	Statistical Methods	
Module level	Bachelor	
Code	KM184305	
Course (if applicable)	Statistical Methods	
Semester	Fall (Gasal)	
Person responsible for the module	Dra. Laksmi Prita Wardhani, M.Si	
Lecturer	Dra. Laksmi Prita Wardhani, M.Si Drs. Sentot Didik Surjanto, M.Si Endah Rokhmati Merdika Putri, S.Si, MT, Ph.D	
Language	Bahasa Indonesia and English	
Relation to curriculum	Bachelor degree program, mandatory , 3 rd semester.	
Type of teaching, contact hours	Lectures, <60 students	
Workload	<ol style="list-style-type: none"> 1. Lectures : 3 x 50 = 150 minutes per week. 2. Exercises and Assignments : 3 x 60 = 180 minutes (3 hours) per week. 3. Private learning : 3 x 60 = 180 minutes (3 hours) per week. 	
Credit points	3 credit points (sks)	
Requirements according to the examination regulations	A student must have attended at least 80% of the lectures to sit in the exams.	
Mandatory prerequisites	Mathematics II	
Learning outcomes and their corresponding PLOs	<p>Course Learning Outcome (CLO) after completing this module,</p> <p>CLO-1 : Able to understand simple statistical problems, analyze with basic statistical methods, and solve them</p> <p>CLO-2 : Able to identify data, analyze it with basic statistical methods correctly, and present it orally and in writing scientifically</p> <p>CLO-3 : Able to be responsible for the conclusions drawn based on the basic data and methods studied</p>	
Content	This course is a basic subject which is a prerequisite for taking the next several courses in the Mathematics department. This course discusses the basic concepts of statistics, descriptive statistics, random variable distribution, special probability distribution, average sampling distribution, estimation of the interval of a	

	parameter, hypothesis testing, and simple linear regression. The introduction of the Minitab program was carried out as a tool to solve simple problems related to data processing and analysis.
Study and examination requirements and forms of examination	<ul style="list-style-type: none"> • Assignment 1 & 2 • Mid-term examination • Final examination
Media employed	LCD, whiteboard, websites (myITS Classroom), zoom.
Reading list	<p>Main :</p> <ol style="list-style-type: none"> 1. Walpole, R.E, Pengantar statistika, edisi 3, Gramedia, Jakarta, 2002 2. Walpole, R.E, Ilmu Peluang dan Statistika untuk Insinyur dan Ilmuwan, edisi 3, ITB, Bandung, 2000 3. Gouri, BC., Johnson RA, Statistical Concepts and Methods, John Wiley and Sons, New York, 1977 <p>Supporting :</p> <ol style="list-style-type: none"> 1. Draper NR, Smith H., Analisis Regresi Terapan, Gramedia, Jakarta, 1992 2. Spiegel RM, Probability and Statistics, Kin Keong Print, Singapore, 1985

