



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
Telepon: +62 751 7053902, Fax: +62 751 7055628
Email: humas@unp.ac.id

Bachelor of Science in Mathematics

MODULE HANDBOOK

Module name:	Sampling Technique
Module level, if applicable:	Bachelor
Code:	MAT2.62.5005
Subheading, if applicable:	-
Classes, if applicable:	Sampling Technique
Semester:	5 th (fifth)
Module coordinator:	Head of Statistics Expertise Group
Lecturer(s):	Dra. Minora Longgom, M.Si and Dra. Helma, M.Si.
Language:	Indonesian Language and English
Classification within the curriculum:	Compulsory course in third year (5 th semester) Bachelor Degree
Teaching format / class hours per week during the semester:	<ol style="list-style-type: none">Lectures : Guided Discovery Learning with methods such as expository, discussion, and drill. (3 x 50 minutes = 150 minutes)Structured assignment : Weekly individual written assignment. (3 x 60 minutes = 180 minutes).Individual study (3 x 60 minutes = 180 minutes).
Workload:	Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes self-study per week for 16 weeks.
Credit points:	3 sks =4.53 ECTS
Prerequisites course(s):	Elementary Statistics

Course outcomes:	<p>After taking this course the students have ability to:</p> <p>CO. 1 Identify the definition of population and sample, parameters and statistics and also the purpose and the application of sampling in research</p> <p>CO. 2 Distinguish probability sampling and non-probability sampling</p> <p>CO. 3 Analyze the usefulness of the normal distribution, bias and its effects</p> <p>CO. 4 Perform simple random sampling, proportion samples and percentage samples</p> <p>CO. 5 Use proportion sampling formula for discrete or continuous data</p>
Content:	<ol style="list-style-type: none"> 1. Statistical theory concept and research design Simple random sampling 2. Sampling proportion and percentage of sample size estimation 3. Stratified random sampling Systematic sampling
Study/exam achievements:	<p>The final grade will be weighted as follows:</p> <p>The assessment consists of a final exam (35%), a midterm exam (35%), task (20 %), and class activity (10%). The final and midterm exams are essay tests with a closed book (120 minutes).</p> <p>In class, students build the concept (discussion) based on the problem that related to this course.</p> <p>Each student gets a weekly assignment as an individual or group</p>
Forms of media:	<p>White Board, laptop, Projector, e-learning via elearning2.unp.ac.id, and zoom meeting.</p>
Literature:	<ol style="list-style-type: none"> 1. Buckingham, A. and Saunders, P., 2004, The Survey Methods Workbook Oddisey Press Inc., New Hampshire. 2. Scheaffer, R.L., Mendenhall, W., and Ott Lyman, 1990, Elementary Survey Sampling 4th Ed, PWS-Kent Publishing Company, Boston. 3. Fellegi, I.P., 2003, Survey Methods and Practices, National Library of Canada Cataloguing in Publication Data

