



UNIVERSITAS NEGERI PADANG
 FACULTY OF MATHEMATICS AND NATURAL SCIENCES
 MATHEMATICS DEPARTMENT, MATHEMATICS EDUCATION STUDY PROGRAM
 Main Campus Universitas Negeri Padang.
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Bachelor of Mathematics Education

MODULE HANDBOOK

Module name:	Sampling Technique
Module level,if applicable:	Bachelor
Code:	MAT1.61.7102
Sub-heading,if applicable:	-
Classes,if applicable:	Sampling Technique
Semester:	7 th (seventh)
Module coordinator:	Dra. Minora Longgom Nasution, M. Pd.
Lecturer(s):	Dra. Minora Longgom Nasution, M. Pd., and Team
Language:	Bahasa Indonesia
Classification within the curriculum:	Study Program Compulsory Course
Teaching format / class hours per week during the semester:	Teaching format: <ul style="list-style-type: none"> • Lectures (face to face activities): Project Based Learning with Presentations, Group and Class Discussion methods, • Structured assignment • Independent activities • Practice <p>practice. 3 x 170 minutes = 510 minutes = 8.50 hours</p>
Workload:	16 weeks per semester include Midterm Exam and Final Exam which consist of: <ul style="list-style-type: none"> • 1.67 hours lectures (2 x 50 minutes) per week, • 2 hours structured assignments (2 x 60 minutes) per week, • 2 hours independent activities (2 x 60 minutes) per week • 2.83 hours practice (1 x 170) per week <p>16 x 170 x 3 = 8160 Minutes =136 hours = 4.53 ECTS</p>
Credit points:	3 SKS (4.53 ECTS)
Prerequisites course(s):	Elementary Statistics

<p>Course outcomes:</p>	<p>After taking this course the students have ability to:</p> <p>CO 1 : master the concepts of sampling technique methods</p> <p>CO 2 : distinguish probability sampling and non probability sampling</p> <p>CO 3 : determine when to use the normal distribution, t, and other distributions.</p> <p>CO 4 : master the concepts of simple random sampling, proportion and percentage, layered and systematic random.</p> <p>CO 5 : estimate the sampling error, the probability of the sample size and the confidence interval.</p> <p>CO 6 : estimate the sample size from the sub-sampling</p> <p>CO 7 : use sampling techniques in research on economics, medicine, science or other disciplines where they will work later.</p> <p>CO 8 : show responsibility attitude towards working in groups and individually.</p>
<p>Content:</p>	<p>This course discusses:</p> <ol style="list-style-type: none"> 1. the concept of statistical theory and research design 2. simple random sampling 3. sampling proportion and percentage of sample size estimation 4. layered random sampling 5. systematic sampling
<p>Study/exam achievements:</p>	<p>Total score= (35% x Midterm exam) + (35% x Final Exam) + (20% x Assignment) + (10% x Affective assessment)</p> <p>The initial cut - off points for grades A, A-, B+, B, B-, C+, C, C-, and D should not be less than 85, 80, 75, 70, 65, 60, 55, 50, and 40 out of 100 respectively.</p> <p>Explanation:</p> <p>1. Midterm Exam</p> <ul style="list-style-type: none"> ✓ Midterm Exam was held at the 8th meeting ✓ Midterm Exam was carried out in the classroom by doing individual test 120 minutes <p>2. Final Exam</p> <ul style="list-style-type: none"> ✓ Final Exam was held at the 16th meeting ✓ Final Exam was carried out in the classroom by doing individual test 120 minutes <p>3. Affective Assessment</p> <ul style="list-style-type: none"> ✓ Affective assessment is held in every meeting by observing students' attitude in the classroom and daily interaction at campus. ✓ The assessment is based on an observation sheet

