



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

MODULE HANDBOOK

Module name:	Research Methods
Module level, if applicable:	Bachelor
Code:	MAT1.62.6003
Subheading, if applicable:	-
Classes, if applicable:	Research Methods
Semester:	6 th (sixth)
Module coordinator:	Head of Mathematics Study Programme
Lecturer(s):	Dra. Dewi Murni,M.Si. and Dra. Helma M.Si
Language:	Indonesian Language and English
Classification within the curriculum:	Compulsory course in the third year (6 th semester) Bachelor Degree
Teaching format / class hours per week during the semester:	<ul style="list-style-type: none"> a. Lectures: by Project Based Learning with methods such as presentations, expository, and class discussion. (2 x 50 minutes = 100 minutes) b. Structured assignment (2 x 60 minutes = 120 minutes) c. Individual study (2 x 60 minutes = 120 minutes)
Workload:	The total workload is 90.67 hours per semester, which consists of 100 minutes lectures, 120 minutes structured assignment, and 120 minutes of individual study. In total, there are 16 weeks per semester, including midterm and final exams.
Credit points:	2 SKS = 3.02 ECTS
Prerequisites course(s):	None
Course outcomes:	<p>After taking this course the students have ability to:</p> <ul style="list-style-type: none"> CO1. describes research and provides examples of several types of research CO2. implements scientific methods in formulating / making research proposals CO3. presents, criticizes and argues against the results of scientific works

Content:	<ol style="list-style-type: none"> 1. Definition of research, research objectives and benefits. 2. Types of research. 3. Problem: background problem, problem formulation and research objectives. 4. Research variables and instruments 5. Population and sample 6. Data analysis techniques 7. Writing a research proposal
Study/exam achievements:	<p>The final grade will be weighted as follows:</p> <p>The assessment consists of a final project (50%), a midterm exam (30%), and an assignment (20%).</p> <p>The final project includes writing a research proposal, discussing it with the lecturer, and giving an oral presentation. A midterm test is taken to examine whether students understand the theory covered in the half-semester course. Every week, students are given an assignment to help them learn more about the subject.</p>
Forms of media:	White Board, laptop, Projector, e-learning via elearning2.unp.ac.id , and zoom meeting.
Literature:	<ol style="list-style-type: none"> 1. Arikunto, Suharsimi. (2006). <i>Prosedur Penelitian Suatu Pendekatan Praktik</i>. Edisi Revisi. Jakarta: PT. Rineka Cipta. 2. Mardalis. (2008). <i>Metode Penelitian, Suatu Pendekatan Proposal</i>. Jakarta: PT. Bumi Aksara. 3. Sukardi. (2008). <i>Metodologi Penelitian Pendidikan, Kompetensi dan Praktiknya</i>. Jakarta: Bumi Aksara. 4. Franenkel, J. R, dan Norman, W.E. (1991). <i>How to Design and Evaluate Research in Education</i>. Singapura: Mc. Graw-Hill. 5. Madya, Suwarsih. (2006). <i>Teori dan Praktik Penelitian Tindakan (Action Research)</i>. Bandung: Alfabeta. 6. Nazir, Moh. (2005). <i>Metode Penelitian</i>. Bogor: Ghalia, Indonesia. 7. Sukmadinata, Nana Syaodih. (2008). <i>Metode Penelitian Pendidikan</i>. Bandung: PT. Remaja Rosda Karya. 8. Yusuf, A. Muri. (2007). <i>Metodologi Penelitian</i>. Padang: UNP Press.

