



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

MODULE HANDBOOK

Module name:	Mathematics Instruction Strategies
Module level, if applicable:	Bachelor
Code:	MAT1.61.4301
Sub-heading, if applicable:	-
Classes, if applicable:	Mathematics Instruction Strategies
Semester:	4 th (Fourth)
Module coordinator:	Dra. Sri Elniati, M.A
Lecturer(s):	Dra. Sri Elniati, M.A and Team
Language:	Bahasa Indonesia and English
Classification within the curriculum:	Study Program Compulsory Course
Teaching format / class hours per week during the semester:	<p>Teaching format:</p> <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>3 x 170 minutes = 510 minutes = 8.50 hours</p>
Workload:	<p>16 weeks per semester include Midterm Exam and Final Exam which consist of:</p> <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 Minute =136 hours = 4.53 ECTS</p>
Credit points:	3 SKS (4.53 ECTS)
Prerequisites course(s):	Psychology of Mathematical Instructions

<p>Course outcomes:</p>	<p>After taking this course the students have ability to:</p> <p>CO1: Develop effective and efficient mathematics learning strategies</p> <p>CO2: Develop the ability to transfer mathematical understanding to solving mathematical problems in the realm of higher-level thinking.</p> <p>CO3: Create mathematics learning that aims to achieve an understanding of mathematical concepts and procedures</p> <p>CO4: Show responsibility attitude towards works by self and by team works</p>
<p>Content:</p>	<p>This course discusses:</p> <ol style="list-style-type: none"> 1. mathematics learning strategies 2. mathematics learning approaches 3. mathematics learning methods 4. mathematics learning techniques 5. mathematics learning models 6. application of learning strategies, approaches, methods, techniques and models in school
<p>Study/exam achievements:</p>	<p>Total Score= (20% x Midterm Exam Score) + (20% x Final Exam Score) + (50% x Assignments including paper, presentations and project) + (10% x Affective Score: participations, and attendance)</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> <ol style="list-style-type: none"> 1. Midterm Exam <ul style="list-style-type: none"> ✓ Midterm will be conducted in the 9th meeting ✓ Midterm is in the form of a written test (essay) and will be conducted in the classroom ✓ The time allocation is 120 minutes according to the module schedule 2. Final Exam <ul style="list-style-type: none"> ✓ Final exam will be conducted in the 16th meeting. ✓ Final exam is in the form of a written test (essay) and will be conducted in the classroom. ✓ The time allocation is 120 minutes which follows the Final Exam Schedule provided by the Department. 3. Assignment <ul style="list-style-type: none"> ✓ Paper and presentations: the participants of the module will be divided into several small groups. Each of the groups will assign a particular topic related to the material in Mathematics Instruction Strategies. They should discuss the topic, prepare the paper and conduct a class presentation. They also should include in their presentation about video analyzing examples on implementation of mathematics instruction strategies. ✓ Project assignment: As a final project for this module, students in a group should design a mini lesson by

