

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:	Mathematical Teaching					
Module level,if applicable:	Bachelor					
Code:	MAT2.62.8007					
Sub-heading, if applicable:	-					
Classes,if applicable:	Mathematical Teaching					
Semester:	8 th (eighth)					
Module coordinator:	Department of Mathematics					
Lecturer(s):	Dr. Arnellis, M.Si.					
Language:	Indonesian Language and English					
Classification within the	Elective course in the fourth year (8 th semester) Bachelor					
curriculum:	Degree					
Teaching format / class	a. Lectures: by Project Based Learning with methods such					
hoursperweekduring the	as presentations, group, and class discussion. (3 x 50					
semester:	minutes = 150 minutes)					
	b. Structured assignment: Group project. (3 x 60 minutes = 180 minutes)					
	c. Individual study (3 x 60 minutes = 180 minutes)					
Workload:	Total workload is 136 hours per semester, which consists of 150					
	minutes lectures per week for 16 weeks, 180 minutes structured					
	activities per week, 180 minutes individual study per week, in					
	total is 16 weeks per semester, including mid exam and final					
	exam.					
Creditpoints:	3 SKS = 4,53 ECTS					
Prerequisites course(s):	Students have taken the course of Introduction to Basic					
	Mathematics course and have participated in the final exam of					
	the course.					
Course outcomes:	After completing this course the students should be able:					
	CO 1. to express mathematics teaching concepts					
	CO 2. to designing mathematics teaching correctly					
	CO 3. to analyze mathematics teaching correctly					
	CO 4. to evaluating mathematics teaching.					

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Content:	Challenges Of Teaching Mathematical Knowledge For Teaching Teaching							
	Teaching 2 Long Range and Short Range Planning							
	2. Long Range and Short Range Planning3. Theoretical and Methodological Perspectives on Teach							
	Learning Through Teaching 4. Teaching More Effective Lesson							
	4. Teaching More Effective Lesson 5. Mathematical Thinking Skills							
	5. Mathematical Thinking Skills 6. The Pole of Problem Solving							
	6. The Role of Problem Solving							
	7. Using Technology to Enhance Mathematics Instruction							
	8. Assessment							
	9. Enriching Mathematics Instruction							
	10. Extracurricular Activities in Mathematics							
Study/exam achievements:	The final grade will be weighted as follows:							
	The assessment consists of a final project (40%), a midterm							
	exam (30%), and an assignment (20%) and Class							
	Activities:Participation, Attitude, and Presence(10%)							
	The final project: students make an article related to this course.							
	Weekly tasks (fixing specific problems) come in two flavors: group and individual.							
	A midterm test is taken to examine whether students understand							
	the theory covered in the half-semester course.							
	After collecting the group task, presentations are held in the							
	classroom and focus on the group members' performances.							
Forms of media:	White Board, laptop, Projector, e-learning via							
	elearning2.unp.ac.id, and zoom meeting.							
Literature:	1 Alfred,S.P and Beverly,S.S. (2015).Teaching Secondary							
	Mathematics. Technique and Enrichment Units. Pearson							
	Education,Inc							
	2 Roza Leikin · Rina Zazkis, (2010) Learning Through							
	Teaching Mathematics. Springer Science+Business							
	Media B.V.							
	3 Deborah V. Mink, Ph. D, (2010). Strategy for Teaching							
	Mathematics. Shell Education Publishing, Inc							
	4 Harvey F. Silver; John R. Brunsting; Terry Walsh;							
	Edward J. Thomas. (2013). Buku Pengajaran							
	Matematika Kurikulum Inti Bersama Edisi 2							
	5 Ruseffendi. Buku Pengajaran Matematika CBSA. <u>Tarsito</u>							
	<u>Bandung</u>							

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1		~								
CO2					~					
CO3					~					
CO4									~	