



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:	Real Analysis 2
Module level, if applicable:	Bachelor
Code:	MAT2.61.8202
Sub-heading, if applicable:	-
Classes, if applicable:	Real Analysis 2
Semester:	8 th (Eight)
Module coordinator:	Dra. Dewi Murni, M.Si.
Lecturer(s):	Dra. Dewi Murni, M.Si., and Team
Language:	Bahasa Indonesia
Classification within the curriculum:	Study Program Elective Course
Teaching format / class hours per week during the semester:	Teaching format: <ul style="list-style-type: none"> • Lectures (face to face activities): group discussion, expository • Structured assignment, and • Independent activities. 3 x 170 minutes = 510 minutes = 8.50 hours
Workload:	16 weeks per semester include Midterm Exam and Final Exam which consist of: <ul style="list-style-type: none"> • 2.50 hours lectures (3 x 50 minutes) per week, • 3 hours structured assignments (3 x 60 minutes) per week, • 3 hours independent activities (3 x 60 minutes) per week 16 x 170 x 3 = 8160 Minute = 136 hours = 4.53 ECTS
Credit points:	3 SKS (4.53 ECTS)
Prerequisite's course(s):	1. Introduction Basic Mathematics 2. Real Analysis 1
Course outcomes:	After taking this course the students have ability to: CO 1: Express the concepts of Differential, Riemann Integral, Function Sequences, and Infinite Series CO2: Interpret the concepts of Differential, Riemann Integral, Function Sequences, and Infinite Series CO3: Analyze the truth of statements related to the concepts of Differential, Riemann Integral, Function Sequences, and Infinite Series through

	<p>a mathematical proof.</p> <p>CO4. Arrange solutions / proof of problems related to the concept of Differential, Riemann Integral, Functions, and Infinite Series.</p> <p>CO5. Show a responsible attitude towards working in groups and individually.</p>
Content:	<p>This course discusses:</p> <ol style="list-style-type: none"> 1. differential 2. Riemann integral 3. function sequences 4. and infinite series
Study/exam achievements:	<p>Total Score = (30% x Midterm Exam) + (35% x Final Exam) + (25% x Assignment: homework, quiz) + (10% x Affective Score: responsibility, class 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> <p>1. Midterm Exam</p> <ul style="list-style-type: none"> ✓ Midterm Exam is held at the 9th meeting ✓ Midterm Exam is a written exam (essay test) and carried out in the classroom with an implementation time of 120 minutes according to the module schedule. <p>2. Final Exam</p> <ul style="list-style-type: none"> ✓ Final Exam is held at the 16th meeting ✓ Final Exam is a written exam (essay test) and carried out in the classroom with an implementation time of 120 minutes which follows the Final Exam implementation schedule of the department. <p>3. Assignments</p> <ul style="list-style-type: none"> ✓ Assignments are given as exercise before Midterm Exam and before Final Exam ✓ Assignments are about analyzing problems in daily life and solving them related to the contents of Real Analysis 2. ✓ Assignments are given as individual tasks and it is submitted in a limited time. <p>4. 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 such as punctuality, responsibility etc. ✓ The assessment is based on an observation sheet and it is given a score by affective rubric assessment.
Forms of media:	White-board, Laptop, and LCD
Literature:	<ol style="list-style-type: none"> 1. Arezqi Tunggal Asmana. (2018). <i>Analisis Real 2</i> (versi terjemahan dan pembahasan dari Introduction to Real Analysis, RG Bartle). Lamongan: FKIP UIDU Lamongan. 2. Fitzpatrick, P., Royden, H. (2017). <i>Real Analysis (Classic Version)</i>. United Kingdom: Pearson. 3. Howie, J. M. (2012). <i>Real Analysis</i>. United Kingdom: Springer London. 4. Makarov, B., & Podkorytov, A. (2013). <i>Real</i>

