



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:	Computer application
Module level, if applicable:	Bachelor
Code:	MAT1.61.1101
Sub-heading, if applicable:	-
Classes, if applicable:	Computer application
Semester:	1 st (first)
Module coordinator:	Fridgo Tasman, S. Pd., M. Sc.
Lecturer(s):	Fridgo Tasman, S. Pd., M. Sc., 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 method such as presentations, group and class discussion, simulation, demonstration, and expository• Structured assignment,• Independent activities, and• Practice in laboratory of computations 2 x 170 minutes = 340 minutes = 5.67 hours
Workload:	16 weeks per semester include Midterm Exam and Final Exam which consist of: <ul style="list-style-type: none">• 0.83 hours lectures (1 x 50 minutes) per week,• 1 hours structured assignments (1 x 60 minutes) per week,• 1 hours independent activities (1 x 60 minutes) per week• 2.83 hours practice (1 x 170) per week 16 x 170 x 2 = 5440 Minute = 90.67 hours = 3.02 ECTS
Credit points:	2 SKS (3.02 ECTS)
Prerequisites course(s):	-

<p>Course outcomes:</p>	<p>After taking this course the students have ability to:</p> <p>CO1 : Implement their knowledge on computers to perform calculations and make graphs using formulas on worksheets</p> <p>CO2 : Implement their knowledge on computers to compile presentation materials.</p> <p>CO3 : Implement their knowledge on computers to use mathematical software.</p> <p>CO4 : Show responsibility towards working individually</p> <p>CO5 : Show responsibility towards working groups</p>
<p>Content:</p>	<p>This course discusses:</p> <ol style="list-style-type: none"> 1. an introduction to the basics of computer applications and their applications which include introduction to operating systems, 2. word processing using microsoft word, 3. number processing using microsoft excel, 4. presentation tools using microsoft powerpoint. 5. the basics of using several mathematical softwares such as geogebra and matlab.

Study/exam achievements:	<p>Total Score = (35% × Midterm Exam Score) + (35% × Final Exam / Project Score) + (20%× Project/Assignment: Resume of program) + (10% × Activities/practice)</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 Exam will be conducted in the 9th meeting ✓ Midterm Exam is in the form of a written test (essay) and will be conducted in classroom ✓ The time allocation is 100 minutes according to modul 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 classroom ✓ The time allocation is 100 minutes according to modul schedule. 3. Project/Assignment <ul style="list-style-type: none"> ✓ Assignments are given as individual. Students use the basics of computer applications and their applications which include introduction to operating systems, word processing (text, insert tables, graphs, pictures, and formulas, etc) using Microsoft Word, number processing, apply logic function using Microsoft Excel, make a presentation using Microsoft PowerPoint. ✓ Project is about making paper (Resume of program) using several mathematical softwares such as GeoGebra and MATLAB in mathematics learning. 4. Affective Asessment <ul style="list-style-type: none"> ✓ Affective Asessment (Participation, Attitude, and Attendance) ✓ The assessment is held in every meeting by observing students' attitude in classroom
Forms of media:	White-board, Laptop, LCD Projector

