



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:	Advanced Computer Applications
Module level, if applicable:	Bachelor
Code:	MAT2.61.6201
Sub-heading, if applicable:	-
Classes, if applicable:	Advanced Computer Applications
Semester:	6 th (sixth)
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 Elective Courses
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 minutes) per week <p>16 x 170 x 3 = 8160 Minutes = 136 hours = 4.53 ECTS</p>
Credit points:	3 SKS (4.53 ECTS)
Prerequisite's course(s):	Computer Applications and Mathematics Learning Media
Course outcomes:	<p>After taking this course, the students have ability to:</p> <p>CO1. State the advantages and disadvantages of any IT-based learning media</p> <p>CO2. Classify IT-based learning media based on their functions in general</p> <p>CO3. Design IT-based learning media that support mathematics</p>

	<p>learning (in accordance with the subject of mathematics)</p> <p>CO4. Presents learning media-based IT</p> <p>CO5. Evaluate the weaknesses or strengths of the learning media that have been designed</p> <p>CO6. Apply a simple counting process on the designed media</p> <p>CO7. Students show responsibility towards working in groups</p>
Content:	<p>This course discusses:</p> <ol style="list-style-type: none"> 1. classification IT-based learning media based on their functions in general 2. design IT-based learning media that support mathematics learning (in accordance with the subject of mathematics) 3. presents learning media-based IT 4. evaluate the weaknesses or strengths of the learning media that have been designed
Study/exam achievements:	<p>Total Score = (35% x Midterm Exam Score) + (35% x Final Exam / Project Score) + (20% x Project/Assignment: Resume of program) + (10% x Affective Score: responsibility 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 Exam will be conducted in the 9th meeting ✓ Midterm Exam 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. Project/Assignment <ul style="list-style-type: none"> ✓ Assignment are given as individual and group task and it is assessed by rubric assessment. ✓ Project is about making paper (Resume of program) that already discussed during lectures. 4. Class Activities <ul style="list-style-type: none"> ✓ Class activities (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, Software/Application
Literature:	1. Hidayat, Fadjar N., dkk. (2015). (ebook) Modul Pembelajaran :Pemafaatan Aplikasi Geogebra untuk Pembelajaran Matematika (Dasar) . Dirjen Guru dan Tenaga Kependidikan Kemendikbud.

