UNIVERSITAS NEGERI PADANG
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
MATHEMATICS DEPARTMEN, MATHEMATICS EDUCATION STUDY PROGRAM
Main Campus Universitas Negeri Padang.
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Bachelor of Mathematics Education **MODULE HANDBOOK**

Module name:	Mathematics Learning Media
Module level:	Bachelor
Code:	MAT1.61.5201
Sub-heading:	-
Classes:	Mathematics Learning Media
Semester:	5th (fifth)
Module coordinator:	Mirna, S.Pd., M.Pd.
Lecturer(s):	Mirna, S.Pd., M.Pd., and Team
Language:	Bahasa Indonesia and English
Classification within the curriculum:	Study Program Compulsory Course
Teaching format / class hours per week during the semester:	Teaching format: • Lectures (face to face activities): Project Based Learning, Project assignment (Making conventional learning media and learning media using macromedia flash) • Structured assignment, • Independent activities, • Practice (Create media) 3 x 170 minutes = 510 minutes = 8.50 hours lectures
Workload:	16 weeks per semester include Midterm Exam and Final Exam which consist of: • 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 16 x 170 x 3 = 8160 Minute =136 hours = 4.53 ECTS
Credit points:	3 SKS (4.53 ECTS)
Prerequisites course(s):	Computer Application
Course outcomes:	After completing this course, the students have ability to: CO1 Develop mathematics learning media concept about notion of learning media, the role and function of learning media, types of learning media, planning and selection of instructional media, presentation techniques for learning media, and evaluation of instructional media, which is specifically for learning mathematics. CO2 Design mathematics learning media for primary and secondary education by utilizing the environment and technology. CO3 Present mathematics learning media for primary and secondary education CO4. Create mathematics learning media concept which includes activities to design, create, use and evaluate mathematics learning media for primary and secondary education by utilizing the environment and technology.

	CO 5 Show the responsibility attitude in own works CO 6 Maintain the responsibility attitude in team works
Content:	This course discusses: 1. the notion of learning media, 2. the role and function of learning media, 3. types of learning media, 4. planning and selection of instructional media, 5. presentation techniques for learning media, 6. evaluation of instructional media, which is specifically for learning mathematics. 7. the discussions are complemented by practicum on the design and production of several types of media that are suitable for the characteristics of students.
Study/exam achievements:	Total Score = (25% x Media Presentation) + (40% x Project Assignment: Create learning Media) + (20% x Creativity) + (15% x Affective: Attendance and Participation) 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. **Explanation:** **1. Presentation** ✓ Presentation assessment is based on students' ability to explain and understand the learning media made including how to make and how to work **2. Project Assignment** ✓ Assignments are given early semester as individual and group task and it is in form paper and presentation and it is assessed by rubric assessment ✓ Assignments are assessed based on mathematics learning media are made in the form of manipulative media and ICT-based media that are adapted to the School Curriculum ✓ One of the task assessments based on Midterm Exam scores was carried out at the 9th meeting which was conducted to measure students' understanding of the concept of mathematics learning media. **3. Creativity** ✓ Assessment of creativity based on the creativity of the media created, it is assessed related to the content or materials used **4.Attendance and Participation** ✓ Attendance and participation is an affective assessment and held in every meeting by observing students' attitude in classroom and daily interaction at campus. ✓ The assessment based on observation sheet and it was given score by affective rubric assessment
Forms of media:	Whiteboard, Laptop, LCD Projector
Literature:	1. Depdiknas. (2016). Kurikulum Matematika Sekolah. 2. Nana Sudjana dan Ahmad Rivai. (2002). Media Pengajaran (Use and Production). Bandung: Sinar Baru Algensindo. 3. Arief S. Sadiman, dkk. (1993). Media Pendidikan. Pengertian, Pengembangan, dan Pemanfaatan. Jakarta: Pustekkom dan PT Raja Grafindo Persada. 4. Sobell, Max A. dan Maletsky, Evan M. (1991). Teaching

	Mathematics. A Sourcebook of Aids, Activities, and Strategies. Boston: Allyn and Bacon. 5. Internet access. Learn Fractions with Cuisenaire Rods. Introduction. 6. Teaching Materials for Mathematics Learning Media Subjects. 7. Macromedia Flash 8. School math textbooks

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11
CO1		✓									
CO2		✓									
CO3			✓								
CO4						✓					
CO5										✓	
CO6										✓	