

UNIVERSITAS NEGERI PADANG

FACULTY OF MATHEMATICS AND NATURAL SCIENCES MATHEMATICS DEPARTMENT, MATHEMATICS EDUCATION STUDY PROGRAM Main Campus Universitas Negeri Padang. Jalan Prof. Dr. Hamka Air Tawar Padang, Sumatera Barat Phone: +62 751 7053902, Fax: +62 751 7055628 Email: matematika@fmipa.unp.ac.id

Bachelor of Mathematics Education

MODULE HANDBOOK

Module name:	Introduction Basic Mathematics				
Module level, if applicable:	Bachelor				
Code:	MAT1.61.1301				
Sub-heading, if applicable:	-				
Classes, if applicable:	Introduction Basic Mathematics				
Semester:	1 st (first)				
Module coordinator:	Dra. Dewi Murni, M.Si.				
Lecturer(s):	Dra. Dewi Murni, M.Si., and Team				
Language:	Bahasa Indonesia				
Classification within the curriculum:	Study Programs Compulsory Course				
Teaching format / class hours per week during the semester:	 Teaching format: Lectures (face to face activities): Group discussion and 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: 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)				
Prerequisites course(s):	-				

	After taking this course, the students have ability to:						
	CO1	:	Declare the basic concepts of sets, logic, and functions				
	CO2	:	Interpret basic concepts related to sets, logic, and functions				
	CO 3	:	Solve problems related to set, logic, and functions				
	CO 4	:	Analyze problems in daily life that discuss the basic concepts of set, logic, and function				
	CO 5	:	Show responsibility attitude towards independent activities and team works.				
Content:	 This course discusses: set and their operations cartesian number sets and multiplication types and inverse of functions relations set algebra duality indexed sets quantified sets mathematical logic propositions propositional functions arguments tautology proof of the validity of proposition functions 						
Study/exam achievements:	Total S Exam) Affectiv The init C+, C, 70, 65, Explan 1. Midte \checkmark M \checkmark M \checkmark M C t s 2. Final \checkmark F C t 3. Assi \checkmark A E \checkmark A	ial cur e Sco ial cur C-, ar 60, 55 ation: ation: arried ime c carried ime c carried ime o mplem gnme Assign Exam i Assign	 = (30% x Midterm Exam) + (35% x Final % x Assignment: homework, quiz) + (10% x re: responsibility, class attendance) t - off points for grades A, A-, B+, B, B-, ad D should not be less than 85, 80, 75, 5, 50, and 40 out of 100 respectively. xam m Exam is held at the 9th meeting m Exam is a written exam (essay test) and lout in the classroom with an implementation of 120 minutes according to the module ale n Exam is a written exam (essay test) and lout in the classroom with an implementation of 120 minutes according to the module ale m Exam is a written exam (essay test) and lout in the classroom with an implementation of 120 minutes which follows the Final Exam hentation schedule of the department ments are given as exercise before Midterm and before Final Exam 				

	 life and solving them related to the contents of Introduction Basic Mathematics. ✓ Assignments are given as individual tasks and it is submitted in a limited time. 4. Affective Assessment ✓ 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, LCD Projector
Literature:	 Katminingsih, Y., & Widodo, S. (2017). <i>Pengantar</i> <i>Dasar Matematika</i>. Kediri: Fakultas Teknik Universitas Nusantara PGRI. Subhan, M. (2017). <i>Pengantar Dasar Matematika</i>. Padang: FMIPA UNP. Charles D. Miller, Vern E. Herren, John Hornsby, Margaret L. Morrow et al. (2012). <i>Mathematical Ideas</i> <i>12th Edition</i>. Pearson, RM. JT. Devlin, K. J. (2012). <i>Introduction to mathematical</i> <i>thinking</i> (Vol. 331). Palo Alto, CA: Keith Devlin. Bartle, Robert G. and Donald R. Sherbert. (2011). <i>Introduction to Real Analysis</i>, 4th Edition. John Wiley.

PLO and CO mapping

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