MINISTRY OF EDUCATION AND CULTURE
UNIVERSITAS NEGERI SURABAYA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF NATURAL SCIENCES
Ketintang Campus, Jl. Ketintang C12 Building, Surabaya 60231
Phone (031)18296427
Website http://pendidikan-sains.fmipa.unesa.ac.id

Module Name:	*Matematika Dasar* Basic mathematic
Module Level:	Bachelor degree/Undergraduate Programme
Course Code:	8420103086
Abbreviation, if applicable:	
Courses included in the module, if applicable:	Not applicable
Semester/term	I / fourth year (senior)
Module coordinator(s):	Dr. Rini Setianingsih, M.Kes.
Lecturer(s):	Evangelista Lus Windyana Palupi., M.Pd.
Language:	*Bahasa Indonesia* (Indonesian Language)
Classification within the curriculum:	Compulsory / ~~Elective~~
Teaching format/class hours per week during the semester:	3 contact hours of lectures (Indonesia credit semester or *sks**)
Workload:	3 x 50 minutes lectures, 3 x 60 minutes structured activity, 3 x 60 minutes individual activity, 14 weeks per semester, 119 total hours per semester ~ 4.77 ECTS**
Credit point:	3 *sks* (4.77 ECTS)
Requirements:	-
Learning goals/competencies:	**Course Learning Outcomes (CLOs):** 1. Knowledge CLO-1: Explain the basic notions of mathematics as a deductiveaxiomatic structure, structured thinking, reasoning, and rational-deductive logic, set, relationship, function, logic, quantor, conclusion, and validity of proof or conclusion. 2. Skill CLO-2: Mathematically state a statement problem in the form of a mathematical relation, function, or statement and solve it 3. Competency CLO-3: Prove mathematical statements using several suitable methods
Content:	System and deductive-axiomatic structure, logical operation, quantifier, making a conclusion, set theory, relation, function, and POSET.
Attribute Soft skill:	Discipline, collaboration, responsibility, and argumentation in the natural classroom setting
Study/exam achievements:	Students are considered to be competent and pass if at least get 40% of the maximum final grade. The final grade (NA) is calculated based on the following weight:

Assessment Components	Percentage Contribution
Participation	20%
Assignment	30%

	<table><tr><td>Mid-semester test</td><td>20%</td></tr><tr><td>Final semester test</td><td>30%</td></tr><tr><td>Total</td><td>100%</td></tr></table>
Learning Methods	Constructivism, student-centered approach, project-based learning, lecturing, discussion, and presentation (structured activities), and flip learning
Form of Media:	LCD, PowerPoint slides, worksheets
Literature (primary references):	1. Stoll, R. R. 1979. Set Theory and Logic. New York: Dover Publication, Inc. 2. Masriyah, 2017. Dasar-Dasar Matematika, Surabaya: Unesa Press. 3. Yunus, M. 2007. Logika: Suatu Pengantar. Yogyakarta: Graha Ilmu. 4. Kunnen, K. 2009. The Foundation of Mathematics Vol 19. London: College Publications
Notes:	*__1 *sks* in learning process = three contact hours that consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes)__ according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.
	**__1 sks = 1,59 ECTS__