



MINISTRY OF HIGHER EDUCATION, SCIENCE, AND
TECHNOLOGY
UNIVERSITAS NEGERI SURABAYA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
UNDERGRADUATE PROGRAM OF MATHEMATICS EDUCATION
Ketintang Campus, Jalan Ketintang, C8 C9 Building, Surabaya 60231
Phone: +62 895335466373, email: s1-pmat@unesa.ac.id
Website: <https://pendidikan-matematika.fmipa.unesa.ac.id/>

Undergraduate Program of Mathematics

Module Handbook

Module Name:	Konservasi Sumber Daya Alam Conservation of Natural Resources
Module Level:	Sarjana (S-1) / Undergraduate
Abbreviation, if applicable:	8420202094
Sub-heading, if applicable:	-
Course included in the module, if applicable:	-
Semester/term:	II/ First year
Module Coordinator(s):	Dr. Ulfi Faizah, S.Pd., M.Si.
Lecturer(s):	<ul style="list-style-type: none">- Dr. Winarsih, M.Kes.- Dra. Herlina Fitrihidajati, M.Si.
Language:	Indonesia (Indonesian Language)
Classification within the curriculum:	Compulsory course/ elective studies
Teaching format/class hours per week during the semester	2 contact hours of lectures (Indonesia credit semester or sks*)
Workload:	16 weeks per semester consisting of: <ul style="list-style-type: none">• 2 hours lectures (2×50 minutes) per week,• 2 hours structured assignments (2×60 minutes) per week,• 2 hours independent study (2×60 minutes) per week, Total workload: $16 \times 2 \times 170$ minutes = 5,440 minutes = 90.67 hours = 3.18 ECTS*.
Credit Point:	2 CU (3.18 ECTS)
Requirements:	N/A
Learning Goals :	Programme Learning Outcomes (PLO) addressed: <ul style="list-style-type: none">• PLO 1: Able to demonstrate the values of religion, nationality and national culture, as well as academic ethics in carrying out their duties.• PLO 2: Demonstrate a tough, collaborative, adaptive, innovative, inclusive, lifelong learner, and entrepreneurial character.• PLO 3: Develop logical, critical, systematic, and creative thinking in carrying out specific work in their area of



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	<p>expertise and in accordance with the work competency standards of the relevant field.</p> <ul style="list-style-type: none">• PLO 7: Communicate ideas and research results effectively, orally, and in writing.• PLO 8: Make decisions based on data/information in completing tasks that are the student's responsibility and evaluating the work that has been done. <p>Course Learning Outcomes (CLO): after completing this module, students are able to:</p> <ul style="list-style-type: none">• CLO 1: Explain the concepts, objectives, benefits, and principles of natural resource and environmental conservation (PLO 3).• CLO 2: Apply environmental ethics and respect local wisdom when evaluating conservation issues and practices (PLO 1, PLO 3).• CLO 3: Analyse natural resource management problems using observations and relevant information to propose feasible conservation solutions (PLO 3, PLO 8).• CLO 4: Collaboratively design a conservation awareness or ecopreneurship project demonstrating adaptive and innovative behaviour (PLO 2, PLO 8).• CLO 5: Communicate conservation project findings and recommendations clearly through written reports and oral presentations (PLO 7).
Content:	<p>Discusses: 1) The scope of conservation which includes: Definition, objectives, benefits and efforts to conserve natural resources and the environment (SDAL); 2) Environmental ethics which includes: Definition, Paradigm, and Environmental Ethical Principles; 3) Natural resources which include: Definition, types and benefits of Natural Resources; 4) Local wisdom which includes: Definition, approach, challenges and local wisdom in people's lives in the future; 5) Management and problems of natural resources and the environment which include: issues, problems and management of natural resources and the environment; 6) Awareness of conservation which includes awareness of the importance of conserving natural resources and the environment, an eco campus and a conservation campus. Lecture activities are carried out in a student center with discussions, observations,</p>



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	project assignments, and presentations by developing ecopreneurship characteristics.																																										
Study/exam achievements	<ul style="list-style-type: none">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:<table><tr><th>Assessment Components</th><th>Percentage Contribution</th></tr><tr><td>Participation</td><td>20%</td></tr><tr><td>Assignment</td><td>30%</td></tr><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>Final index is defined as follow:<table><tr><th>Index</th><th>Converted Score</th><th>Score Range</th></tr><tr><td>A</td><td>4.00</td><td>$85 \leq A \leq 100$</td></tr><tr><td>A-</td><td>3.75</td><td>$80 \leq A- < 85$</td></tr><tr><td>B+</td><td>3.50</td><td>$75 \leq B+ < 80$</td></tr><tr><td>B</td><td>3.00</td><td>$70 \leq B < 75$</td></tr><tr><td>B-</td><td>2.75</td><td>$65 \leq B- < 70$</td></tr><tr><td>C+</td><td>2.50</td><td>$60 \leq C+ < 65$</td></tr><tr><td>C</td><td>2.00</td><td>$55 \leq C < 60$</td></tr><tr><td>D</td><td>1.00</td><td>$40 \leq D < 55$</td></tr><tr><td>E</td><td>0.00</td><td>$0 \leq E < 40$</td></tr></table>	Assessment Components	Percentage Contribution	Participation	20%	Assignment	30%	Mid-semester test	20%	Final semester test	30%	Total	100%	Index	Converted Score	Score Range	A	4.00	$85 \leq A \leq 100$	A-	3.75	$80 \leq A- < 85$	B+	3.50	$75 \leq B+ < 80$	B	3.00	$70 \leq B < 75$	B-	2.75	$65 \leq B- < 70$	C+	2.50	$60 \leq C+ < 65$	C	2.00	$55 \leq C < 60$	D	1.00	$40 \leq D < 55$	E	0.00	$0 \leq E < 40$
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Forms of Media	LCD, PowerPoint slides, worksheets																																										
Literature	<ol style="list-style-type: none">Cluras, D. D. and Reganold, J.P. 2010. Natural Resources Conservation Future. Washington: Washington State University.Indrawan, M; Primack, R.B; Supriatna, J. 2007. Biologi Konservasi. Jakarta: Yayasan Obor Indonesia.Keraf, A.S. 2010. Etika Lingkungan Hidup. Jakarta: Penerbit BukuKompas.Mitchell, B; Setiawan, B; Rahmi, D.H. Pengelolaan Sumber daya dan Lingkungan. Yogyakarta: Gadjah Mada University Press.Van Dyke, F. 1993. Conservation Biology. Boston: University of Arkansas, Inc.																																										
Note	Based on Regulation of the Minister of Higher Education, Science, and Technology of the Republic of Indonesia Number 39 of 2025																																										



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	<p>on Quality Assurance in Higher Education, one credit unit (CU) represents approximately 45 hours of learning per semester. UNESA's curriculum uses 170 minutes per CU per week over 16 weeks, including midterm and final assessments. For Qualitative Research (2 CU), the total workload is $2 \times 170 \times 16 = 5,440$ minutes, or 90.67 hours per semester. Using UNESA's institutional conversion of $1 \text{ CU} = 1.59 \text{ ECTS}$, the course is equivalent to 3.18 ECTS.</p>
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