



MINISTRY OF EDUCATION AND CULTURE
UNIVERSITAS NEGERI SURABAYA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF PHYSICS

Ketintang Campus, Jalan Ketintang, C3 Building, Surabaya 60231

Website: <http://pendidikan-fisika.fmipa.unesa.ac.id/>, email: s1-pfis@unesa.ac.id

Undergraduate Programme of Physics Education

Module Handbook

Module Name :	<i>Konservasi Sumber Daya Alam dan Lingkungan</i> Conservation of Natural Resources and Environment
Module level :	Bachelor degree/Undergraduate Programme
Course Code :	8420302107
Abbreviation, if applicable:	KSDAL/CNRE
Courses included in the module, if applicable:	Not Applicable
Semester/Term	2/First Year
Module coordinator(s)	
Lecturer(s):	Dr. Tarzan Purnomo, M.Si. Woro Setyarsih, S.Pd., M.Si. Firas Khaleyla, M.Si. Fitriari Izzatunnisa Muhaimin, M.Sc.
Language:	<i>Bahasa Indonesia</i>
Classification within the curriculum:	Compulsory/ Elective
Teaching format/class hours per week during the semester:	2 contact hours of lectures (Indonesia credit semester or sks*)
Workload :	Lecture: 2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester. 79.33 total hours per semester ~ 3.18 ECTS**
Credit Point:	2 sks (3.18 ECTS)
Requirements:	



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<p>Learning goals/competencies:</p>	<ol style="list-style-type: none"> 1. Students have ability to apply logical, critical, systematic and innovative thinking in the context of developing or implementing science and technology that pays attention to and applies humanities values. 2. Students have ability to produce correct conclusions based on the results of identification that have been made and be able to apply skills in educating, researching, and managing in the administration of chemistry education. 3. Students be able to master the theoretical concepts (knowledge) about the functions and roles of chemical education laboratories, the basics of chemical laboratory development planning, and management of chemical laboratory equipment and materials procurement as well as the principles of K3 (Occupational Health and Safety) and laboratory management. 4. Students have a responsible attitude by applying an understanding of laboratory organization material in carrying out lectures and daily practicum and assignments on the field in the future.
<p>Content</p>	<p>This course discuss about: 1) 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, project assignments, and presentations by developing ecopreneurship characters</p>
<p>Attribute Soft skill:</p>	<p>Scientific report, public speaking, and team work</p>



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Study/exam achievements:	<p>Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:</p> <table border="1"><thead><tr><th>Assessment Components</th><th>Percentage contribution</th><th>of</th></tr></thead><tbody><tr><td>Participation</td><td>20%</td><td></td></tr><tr><td>Assignment</td><td>30%</td><td></td></tr><tr><td>Mid-semester test</td><td>20%</td><td></td></tr><tr><td>Final semester test</td><td>30%</td><td></td></tr></tbody></table>	Assessment Components	Percentage contribution	of	Participation	20%		Assignment	30%		Mid-semester test	20%		Final semester test	30%	
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Participation	20%															
Assignment	30%															
Mid-semester test	20%															
Final semester test	30%															
Learning Methods :	Student-centered approach, lecture and discussion, and presentations (structured activities)															
Form of Media:	<i>Power Point</i> slides, e-book file, and multimedia.															
Literature (primary references):	<ol style="list-style-type: none">1. Hamzah, S. 2010. Pendidikan Lingkungan. Sekelumit Wawasan Pengantar. Bandung: PT RefikaAditama.2. Indrawan, M; Primack, R.B; Supriatna, J. 2007. Biologi Konservasi. Jakarta: Yayasan Obor Indonesia.3. Iskandar, Z.I. 2012. Psikologi Lingkungan. Teori dan Konsep. Bandung: PT Refika Aditama.4. Keraf, A.S. 2010. Etika Lingkungan Hidup. Jakarta: Penerbit BukuKompas.5. Marfai, M.A. 2013. Pengantar Etika Lingkungan dan Karifan Lokal. Yogyakarta: Gadjah Mada University Press6. Cluras, D. D. and Reganold, J.P. 2010. Natural Resources Conservation Future. Washington: Washington State University.7. Mitchell, B; Setiawan, B; Rahmi, D.H. Pengelolaan Sumber daya dan Lingkungan. Yogyakarta: Gadjah Mada University Press.8. Suparmoko, M. 2013. Ekonomi Sumber Daya Alam dan Lingkungan. Suatu Pendekatan Teoritis. Yogyakarta: BPF															



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Notes:

*1 sks in learning process = three periods 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 according to Rector Decree Of Universitas Negeri Surabaya No. 598/Un38/Hk/Ak/2019