Module Descriptions

Module designation	Environmental Science *Pengetahuan Lingkungan*
Course Code	8420502113
Semester/Term	7th Semester
Person responsible for the module	Prof. Dr. Tarzan Purnomo, M.Si. Prof. Dr. Fida Rachmadiarti, M.Kes. Dr. Sunu Kuntjoro, M.Si. Dra. Herlina Fitrihidajati, M.Si. Dr. Winarsih, M.Kes.
Language	Bahasa Indonesia (Indonesian language)
Relation to curriculum	Elective course
Teaching methods	Lecture
Workload	a. Lecture: 1 x 50 minutes lectures, 1 x 60 minutes structured activity, 1 x 60 minutes individual activity, 14 weeks per semester, 39.67 total hours of lecture per semester ~ 1.59 ECTS b. Lab activity: 1x170 minutes lab activity, 14 weeks per semester 39.67 total hours of lab activity per semester ~ 1.59 ECTS Total of lecture and lab activity= 79.33 total hours per semester ~ 3.18 ECTS**
Credit Point	2 CU(3.18 ECTS)
Required and recommended prerequisites for joining the module	Ecology
Module Objectives/intended learning outcomes	After taking this course, students will be: 1. Able to demonstrate basic knowledge of cell and molecular biology, organism biology, ecology and evolution to analyze current biological issues (*Knowledge*) 2. Able to apply knowledge and technology of Environmental Knowledge for solving problems of natural resources and the environment both in laboratories and in real practices that support the profession and / or entrepreneurship (*Knowledge*) 3. Able to design and conduct experiments in the field of Environmental Knowledge, manage, analyze, interpret, document, and store research data, to manage living natural resources (*Specific Competence*)

<table>
<tr><td></td><td>4. Able to apply logical, critical, systematic, and innovative thinking in the context of developing or implementing science and / or technology in accordance with their field of expertise. (General Competence)
5. Able to demonstrate the religious and cultural values of the nation, as well as academic ethics in carrying out their professional duties. (General Competence)</td></tr>
<tr><td>Content</td><td>This course discusses: 1). Environmental Science; 2). The difference between Environmental Science and Environmental Science (such as ecology and its applications); 3). The role of humans in nature, especially students as environmental coaches; 4). Applying environmental ethics; 5). The studying the existence of ecosystems on land and in waters and how to preserve them.</td></tr>
<tr><td>Study and examination requirements and forms of examination</td><td>Students are eligible for the final semester test if they have at least 75% attendance in class.

The final grade (NA) is calculated based on the following ratio:

<table>
<tr><th>Assessment Components</th><th>Percentage of 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>
</table>

Grade Conversion of 0-100 scale into 0-4 scale is set as below:

<table>
<tr><th>Letter</th><th>Number</th><th>Grade interval</th></tr>
<tr><td>A</td><td>4.00</td><td>85 ≤ A ≤ 100</td></tr>
<tr><td>A-</td><td>3.75</td><td>80 ≤ A- <85</td></tr>
<tr><td>B+</td><td>3.50</td><td>75 ≤ B+ < 80</td></tr>
<tr><td>B</td><td>3.00</td><td>70 ≤ B < 75</td></tr>
<tr><td>B-</td><td>2.75</td><td>65 ≤ B- < 70</td></tr>
<tr><td>C+</td><td>2.50</td><td>60 ≤ C+ < 65</td></tr>
<tr><td>C</td><td>2.00</td><td>55 ≤ C < 60</td></tr>
<tr><td>D</td><td>1.00</td><td>40 ≤ D < 55</td></tr>
</table>
</td></tr>
</table>

	E	0.00	0 ≤ E < 40
Reading List	1. Enger, S. 2005. *Environmental Sciences: A Study of Interrelationships*.Washington: McGraw-Hill International. 2. Fitrihidajati, H., Suparno, G., Isnawati, dan Ratnasari, E. 2014. Pemanfaatan Eceng Gondok Sebagai Pakan Ternak Ruminansia Sebagai Upaya Mengatasi Gulma Perairan. *Laporan Penelitian Hibah Bersaing*. Surabaya : LPPM UNESA. 3. Oram, R.F. and Hummer, P.J. 2003. *Biology Living Systems*. New York: Glencoe, McGraw-Hill. 4. Rachmadiarti, F. 2013. Fitoremidiasi**.** *Disertasi.* Tidak dipublikasikan. Malang: PPS Universitas Brawijaya. 5. Undang-undang no 32 tahun 2009 tentang Pengelolaan Lingkungan. 6. Kepmen LH tentang Peraturan Pelaksanaan Sekolah Adiwiyata.		