

## 2. Ecology and Global Environmental Change

<b>Module designation</b>	Ecology and Global Environmental Change
<b>Module level, if applicable</b>	-
<b>Code, if applicable</b>	C IL 2 3 812
<b>Subtitle, if applicable</b>	-
<b>Courses, if applicable</b>	-
<b>Semester(s) in which the module is taught</b>	1 <sup>st</sup> Semester
<b>Person responsible for the module</b>	Prof. Dra. Norma Afiati, M.Sc., Ph.D.
<b>Lecturer</b>	<ol style="list-style-type: none"> <li>1. Prof. Dra. Norma Afiati, M.Sc., Ph.D.</li> <li>2. Prof. Ir. Didi Dwi Anggoro, M.Eng., Ph.D.</li> <li>3. Dr. Ir. Hermawan, DEA.</li> </ol>
<b>Language</b>	Indonesian and English
<b>Relation to curriculum</b>	-
<b>Type of teaching, contact hours</b>	<ul style="list-style-type: none"> <li>• Regular meeting with Lecturer 16 times (40 hours with total contact hour per teaching is 2.5 hours weekly for 16 weeks). This activity consists of Lecture: 80 minutes; Q&amp;A: 20 minutes; Discussion: 30 minutes; Presentation: 20 minutes).</li> <li>• Independent work on reading materials and literature review (48 hours, 3 hours weekly for 16 weeks).</li> <li>• Preparing paper and final personal assignment (96 hours, 6 hours weekly for 16 weeks).</li> <li>• Peer group discussion (24 hours, 1.5 hour weekly for 16 weeks).</li> <li>• Personal work on reflecting the course's gained knowledge to the student's research topic (17.6 hours, 1.1 hours weekly for 16 weeks).</li> </ul> <p>Total contact hours in 1 semester = 225 hours</p>
<b>Student Workload for One ECTS</b>	<ul style="list-style-type: none"> <li>• Face-to-face lecturers in class (4.44 hours)</li> <li>• Independent work (reading books, materials, papers, literature review, etc. : 5.33)</li> <li>• Preparing paper and structured assignments (doing homework or assignments given by lecturers : 10.67 hours)</li> <li>• Peer group discussion (2.67 hours)</li> <li>• Personal work on reflecting the course's gained knowledge to the student's research topic (1.89 hours)</li> <li>• Total workload for one ECTS = 25 hours</li> </ul>
<b>Laboratory Work</b>	This course requires no laboratory work

<b>Credit points</b>	3 SKS which equivalent to 9 ECTS
<b>Requirements according to the examination regulations</b>	Minimum attendance of lectures 75%
<b>Recommended prerequisites</b>	-
<b>Module objectives/intended learning outcomes</b>	<ul style="list-style-type: none"> <li>• Able to describe the history of ecological development</li> <li>• Able to describe the interrelationships of living things and their environment</li> <li>• Able to describe important basic concepts in an ecosystem.</li> </ul>
<b>Content</b>	<ul style="list-style-type: none"> <li>• The Ecology and Global Environmental Change course is a compulsory subject in the Environmental Science Doctoral study program</li> <li>• Explanation of the history and ecological approach</li> <li>• The concept of environmental factors and their effects on living things</li> <li>• Habitats and niches</li> <li>• Responses and adaptations,</li> <li>• Populations, communities, ecosystems and global environmental changes.</li> </ul>
<b>Study and examination requirements and forms of examination</b>	<ul style="list-style-type: none"> <li>• Open book and close book</li> <li>• Multiple choice, case study, interview, practice</li> </ul>
<b>Media employed</b>	Power point, YouTube, website
<b>Reading materials</b>	<p>Adger, W. N., Benjaminsen, T. A., Brown, K., &amp; Svarstad, H. (2001). Advancing a Political Ecology of Global Environmental Discourses. <i>Development and Change</i>, 32(4), 681-715.</p> <p>Buechler, S., &amp; Hanson, A. M. S. (Eds.). (2015). <i>A Political Ecology of Women, Water and Global Environmental Change</i> (p. 99). New York: Routledge.</p> <p>Jasanoff, S. (2018). 8. Science and Norms in Global Environmental Regimes. In <i>Earthly goods</i> (pp. 173-197). Cornell University Press.</p> <p>Kasperson, J. X., Kasperson, R. E., Turner, B. L., Hsieh, W., &amp; Schiller, A. (2022). Vulnerability to Global Environmental Change. In <i>the Social Contours of Risk</i> (pp. 245-285). Routledge.</p>