

### 7.2.2. 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>	PCIL 9132
<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, 1.4 hour weekly for 16 weeks)</li> <li>• Personal work on reflecting the course's gained knowledge to the student's research topic (±17 hours, 1.1 hours weekly for 16 weeks)</li> </ul> <p>Total contact hours in 1 semester = 225 hours</p>
<b>Workload</b>	<ul style="list-style-type: none"> <li>• Face-to-face lectures in class</li> <li>• Structured assignments (doing homework or assignments given by lecturers)</li> <li>• Independent work (reading books, papers, etc.)</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>	The Ecology and Global Environmental Change course is a compulsory subject in the Environmental Science Doctoral study program. The material presented includes an explanation of the history and ecological approach, the concept of environmental factors and their effects on living things, habitats and niches, responses and adaptations, populations, communities, ecosystems and global environmental changes.
<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>