2. Ecology and Global Environmental Change

Module designation	Ecology and Global Environmental Change
Module level, if applicable	-
Code, if applicable	PCIL 9132
Subtitle, if applicable	-
Courses, if applicable	-
Semester(s) in which the module is taught	1st Semester
Person responsible for the module	Prof. Dra. Norma Afiati, M.Sc., Ph.D.
Lecturer	1. Prof. Dra. Norma Afiati, M.Sc., Ph.D. 2. Prof. Ir. Didi Dwi Anggoro, M.Eng., Ph.D. 3. Dr. Ir. Hermawan, DEA.
Language	Indonesian and English
Relation to curriculum	-
Type of teaching, contact hours	• 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&A: 20 minutes; Discussion: 30 minutes; Presentation: 20 minutes) • Independent work on reading materials and literature review (48 hours, 3 hours weekly for 16 weeks) • Preparing paper and final personal assignment (96 hours, 6 hours weekly for 16 weeks) • Peer group discussion (24 hours, 1.4 hour weekly for 16 weeks) • Personal work on reflecting the course's gained knowledge to the student's research topic (±17 hours, 1.1 hours weekly for 16 weeks) Total contact hours in 1 semester = 225 hours
Student Workload for One ECTS	• Face-to-face lecturers in class (4.44 hours) • Independent work (reading books, materials, papers, literature review, etc. : 5.33) • Preparing paper and structured assignments (doing homework or assignments given by lecturers : 10.67 hours) • Peer group discussion (2.67 hours) • Personal work on reflecting the course's gained knowledge to the student's research topic (1.89 hours) Total workload for one ECTS = 25 hours
Laboratory Work	This course requires no laboratory work

Credit points	3 SKS which equivalent to 9 ECTS
Requirements according to the examination regulations	Minimum attendance of lectures 75%
Recommended prerequisites	-
Module objectives/intended learning outcomes	• Able to describe the history of ecological development • Able to describe the interrelationships of living things andtheir environment • Able to describe important basic concepts in an ecosystem.
Content	• The Ecology and Global Environmental Change course is a compulsory subject in the Environmental Science Doctoral study program • 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.
Study and examination requirements and forms ofexamination	• Open book and close book • Multiple choice, case study, interview, practice
Media employed	Power point, YouTube, website
Reading materials	Adger, W. N., Benjaminsen, T. A., Brown, K., & Svarstad, H. (2001). Advancing a political ecology of global environmental discourses. Development and change, 32(4), 681-715. Buechler, S., & Hanson, A. M. S. (Eds.). (2015). A political ecology of women, water and global environmental change (p. 99). New York: Routledge. Jasanoff, S. (2018). 8. Science and Norms in Global Environmental Regimes. In Earthly goods (pp. 173-197). Cornell University Press. Kasperson, J. X., Kasperson, R. E., Turner, B. L., Hsieh, W., & Schiller, A. (2022). Vulnerability to global environmental change. In The social contours of risk (pp. 245-285). Routledge.