

MODUL ECOLOGY AND ENVIRONMENTAL POLLUTION



MASTER PROGRAM OF ENVIRONMENTAL SCIENCE
SCHOOL OF POSTGRADUATE STUDIES
DIPONEGORO UNIVERSITY

Module Description::

Module Name	Ecology and Environmental Pollution
Module level, if applicable	
Code, if applicable	P-CIL-8-104
Subtitles, if any	
Course, if applicable	
Semester(s) in which the module is taught	Semester 1
Module Responsible	Prof. Dra. Norma Afiati, M.Si., Ph.D.
Teaching Lecturer	1. Prof. Dra. Norma Afiati, M.Si., Ph.D. 2. M. Arief Budihadrjo ST, M.Eng.Sc., Env.Eng. Ph. D 3. Dr. JafronWasiq Hidayat, M.Sc
Language	<i>Indonesian and English</i>
Relationship with curriculum	
Type of teaching, hours of contact	<i>Lectures: 1 x 180 minutes x 16 meetings = 48 hours/week Q&A: 1 x 30 minutes x 16 meetings = 8 hours/week Discussion: 1 x 30 minutes x 16 meetings = 8 hours/week Presentation: 1 x 30 minutes x 16 meetings = 8 hours/week Individual assignment: 60 minutes/day = 5 hours/week Total work for 1 semester = 150 hours = 6 ECTS</i>
Workload	<i>(Estimated) workload, divided into contact hours (lectures, exercises, laboratory sessions, etc.) and personal study, including test preparation, specified in hours,¹and overall.</i>
credit points	<i>3Credits / 6 ECTS</i>
Requirements according to the exam regulations	<i>Lecture attendance of at least 75%</i>
Recommended prerequisites	<i>For example, competence in...</i>

Modulethe desired learning objectives/outcomes	<ul style="list-style-type: none"> • Capable to describe that history from ecologicaldevelopment • Be able to explain the interrelationships of living things with their environment • Be able to explain important basic concepts in an ecosystem.
Fill	The Ecology and Environmental Pollution course is a compulsory subject in the Environmental Science master's program. The material presented includes an explanation of history and ecological approaches, the concept of environmental factors and their effects on living things, habitats and niches, responses and adaptations, populations, communities, ecosystems and environmental pollution.
Study and examexam requirements and forms	<ul style="list-style-type: none"> • <i>Open the book and close the book</i> • <i>Multiple choice, case studies, interviews, practicals</i>
Media used	<i>Powerpoint, youtube, website</i>
Read reference	<ul style="list-style-type: none"> • Campbell, Neil A. 2012. Biology. Issue 8. Erlangga, Jakarta. • Satrawijaya, A. Tresna. 1991. Environmental Pollution. Rinka Cipta. Jakarta • Bharti, KP and Chauhan, A. 2012. Environmental Pollution and Biodiversity. • Singh, JS, Singh, SP, and Gupta, SR 2014. Ecology and Environmental Science and Conservation. India: S. Chand Publishing. • Raven, PH, et al. 2022. Environment, 9th Edition 9th Edition. Wiley.