

MODUL RESEARCH I



MASTER PROGRAM OF ENVIRONMENTAL SCIENCE
SCHOOL OF POSTGRADUATE STUDIES
DIPONEGORO UNIVERSITY

A Module Descriptions:

Module design	Research I
Module level, if applicable	
Code, if applicable	P-CIL-8-133
Subtitles, if applicable	
Courses, if applicable	
Semester(s) in which the module is taught	1 st Semester
Person responsible for the module*	Principal Supervisor
Lecturer	1. Principal Supervisor 2. Principal Co-Supervisor
Language	<i>Indonesian and English</i>
Relations to curriculum	
Type of teaching, contact hours	• <i>Reguler meeting with Supervisor 16 times Weekly = 1 x 50 minutes</i> • <i>Reguler meeting with co supervisor 16 times Weekly = 1 x 50 minutes</i> • <i>Laboratory/studio reguler activity 2 hours/day (16 weeks)</i> • <i>Conference/Seminars include preparation and presentation= 80 hours</i> • <i>Total work for 1 semester = 300 hours = 12 ECTS</i>
Workload	• <i>Face to face discussion with supervisor (weekly)</i> • <i>Face to face discussion with co supervisor (weekly)</i> • <i>Individual Laboratory/studio reguler activity</i> • <i>Conference/Seminars</i> • <i>Examination</i>
Credit points	<i>5 credits point / 12 ECTS</i>
Requirements according to the examination regulations	<i>Minimum attendance of lectures 75%</i>
Recommended prerequisites	<i>Students have taken research proposal 1</i>

*Material for advance lecture perform by principal supervisor, co supervisor and student refers to research topic.

Module objectives/intended learning outcomes	● Students are able to compile or design (C6) research I in one of the research fields (abiotic, biotic, culture) which will be carried out during the master by research program. ● Students are able to explain (C2) the linkage of components A (Abiotic) , or B (Biotics), or C (Culture) in the development of environmental science and or solving environmental problems. ● Students are able to analyze (C4) one component of A (Abiotic) , or B (Biotics) , or C (Culture) in the development of environmental science and or solving environmental problems. ● Students are able to compose (C6) research I on one of the components A (Abiotic) , or B (Biotics) , or C (Culture) in the development of environmental science and or solving environmental problems. ●
Content	This course discusses the preparation of research 1 in the master's concentration in environmental science concentration by research. Research 1 emphasizes component A (Abiotic), or Component B (biotic) or component C (Culture) in the development of environmental science and or solving environmental problems.
Study and examination requirements and forms of examination	<i>Discussions with supervisors, independent work, presentation of results in conferences or seminars, presentation of research results, collection of research report - 1</i>
Media employed	<i>Powerpoint, youtube, website</i>
Reading list	1. Y.K. Sing, Environmental Science, 2006, New Age International Publisher. Access from https://www.hzu.edu.in/bed/E%20V%20S.pdf 2. Khoiyangbam, R.S., and N Gupta. 2012. Introduction to Environmental Sciences. New Delhi: TERI 3. Bojie Fu, Yanxu Liu, Yan Li, Cong Wang, Changjia Li, Wei Jiang, Ting Hua, Wenwu Zhao, 2021, The research priorities of Resources and Environmental Sciences, Geography and Sustainability, Volume 2, Issue 2, Pages 87-94, https://doi.org/10.1016/j.geosus.2021.04.001. 4. Nikolai Attard, 2018, WASP (Write a Scientific Paper): Writing an academic research proposal, Early Human Development, Volume 123, Pages 39-41, https://doi.org/10.1016/j.earlhumdev.2018.04.011.