

7.2.2. Research 1

Module designation	Research 1
Module level, if applicable	-
Code, if applicable	PCIL 9135
Subtitle, if applicable	-
Courses, if applicable	-
Semester(s) in which the module is taught	1 st Semester
Person responsible for the module	Head of Study Program
Lecturer	Principal Supervisor and Co-Supervisor
Language	Indonesian and English
Relation to curriculum	Compulsory
Type of teaching, contact hours	<ul style="list-style-type: none"> • Discussion with Principal Supervisor (32 hours, 2 weekly for 16 weeks) • Discussion with Co-Supervisor (32 hours, 2 weekly for 16 weeks) • Independent work on reading materials and literature review (128 hours, 8 hours weekly for 16 weeks) • Developing research proposal (128 hours, 8 hours weekly for 16 weeks) • Preparing progress report (16 hours, 1 hour weekly for 16 weeks) • Preparing presentation materials (16 hours, 1 hour weekly for 16 weeks) • Preparing manuscript and conference (20.8 hours, 1.3 hours weekly for 16 weeks) <p>Total hours in 1 semester = 373 hours</p>
Workload	<ul style="list-style-type: none"> • Regular meeting with supervisor and co-supervisor • Creating research proposal • Progress report and presentation • Initial stage to prepare manuscript and conference
Laboratory Work	Students taking this course have the chance to utilize the laboratory within the Diponegoro University according to each student's research needs
Credit points	3 SKS which equivalent to 18 ECTS
Requirements according to the examination regulations	Participate in monitoring and evaluating progress of the preparation of the dissertation organized by the Study Program; Collecting of portfolio of progress report for dissertation.
Recommended prerequisites	Existing competencies in literature review and scientific

	writing.
Module objectives/intended learning outcomes	<ul style="list-style-type: none"> - <i>Able to compile research plan.</i> - <i>Able to compile proposal dissertation.</i>
Content	<ul style="list-style-type: none"> - Introduction to Research Course I - Review of Research Problems, Research Objectives - State of the Art Review and Research Hypotheses - Operational Definitions, Indicators, and Research Variables - Theoretical Framework and Research Concept Framework - Research Fishbone Diagram - Presentation of the Progress Report of the Dissertation Research Proposal - Students collect portfolios and the development of the preparation of the dissertation
Study and examination requirements and forms of examination	<ul style="list-style-type: none"> - Mid-semester progress report assessment, final progress report assessment. - The final grade in the module is composed of 80% performance on portfolio of progress reports, 20% participation in monitoring and evaluating. Students must submit a portfolio of progress reports and a draft dissertation according to the targeted stages as a minimum achievement to pass.
Media employed	Power point
Reading materials	<p>Kasperson, J. X., Kasperson, R. E., Turner, B. L., Hsieh, W., & Schiller, A. (2022). Vulnerability to global environmental change. In <i>The social contours of risk</i> (pp. 245-285). Routledge.</p> <p>Louv, R., & Fitzpatrick, J. W. (2012). <i>Citizen science: Public participation in environmental research</i>. Cornell University Press.</p> <p>Pohl, C. (2005). Transdisciplinary collaboration in environmental research. <i>Futures</i>, 37(10), 1159-1178.</p> <p>Svarstad, H., Petersen, L. K., Rothman, D., Siepel, H., & Wätzold, F. (2008). Discursive biases of the environmental research framework DPSIR. <i>Land use policy</i>, 25(1), 116-125.</p>