

### 3. Research 2

<b>Module designation</b>	Research 2
<b>Module level, if applicable</b>	-
<b>Code, if applicable</b>	PCIL 9273
<b>Subtitle, if applicable</b>	-
<b>Courses, if applicable</b>	-
<b>Semester(s) in which the module is taught</b>	2 <sup>nd</sup> Semester
<b>Person responsible for the module</b>	Head of Study Program
<b>Lecturer</b>	Principal Supervisor and Co-Supervisor
<b>Language</b>	Indonesian and English
<b>Relation to curriculum</b>	Compulsory
<b>Type of teaching, contact hours</b>	<ul style="list-style-type: none"> <li>• Discussion with Principal Supervisor (32 hours, 2 hours weekly for 16 weeks)</li> <li>• Discussion with Co-Supervisor (32 hours, 2 hours weekly for 16 weeks)</li> <li>• Reading materials and literature review (128 hours, 8 hours weekly for 16 weeks)</li> <li>• Developing data collection strategy (128 hours, 8 hours weekly for 16 weeks)</li> <li>• Developing data analysis strategy (112 hours, 7 hours weekly for 16 weeks)</li> <li>• Preparing progress report (35 hours, 2.2 hour weekly for 16 weeks)</li> </ul> <p>Total hours in 1 semester = 467 hours</p>
<b>Student Workload for One ECTS</b>	<ul style="list-style-type: none"> <li>• Face-to-face discussion with Principal Supervisor (1.07 hours)</li> <li>• Face-to-face discussion with Co-Supervisor (1.07 hours)</li> <li>• Independent work (reading books, materials, papers, literature review, etc.: 4.27 hours)</li> <li>• Developing research conceptual and pathway framework in data collection (4.27 hours)</li> <li>• Developing research conceptual and pathway framework in data analysis (3.73 hours)</li> <li>• Preparing presentation materials for result and progress presentation (improvements, challenges, constraints, etc.: 1.17 hours)</li> <li>• Total workload for one ECTS = 15.58 hours</li> </ul>

<b>Laboratory Work</b>	Students taking this course have the chance to utilize the computer laboratory within the Diponegoro University to practice the environmental modelling and simulation
<b>Credit points</b>	7 SKS which equivalent to 30 ECTS
<b>Requirements according to the examination regulations</b>	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.
<b>Recommended prerequisites</b>	Existing competencies in literature review and scientific writing.
<b>Module objectives/intended learning outcomes</b>	<ul style="list-style-type: none"> <li>• Able to design research according to scientific research methodology.</li> <li>• Able to carry out scientific research for doctoral program dissertation.</li> </ul>
<b>Content</b>	<ul style="list-style-type: none"> <li>• Introduction to Research Course II</li> <li>• Roadmap and Research Design</li> <li>• Population, Sample and Research Variables</li> <li>• Data collection technique</li> <li>• Research Data Analysis Method</li> <li>• Data Analysis Design</li> <li>• Research for Scientific Publications</li> <li>• Data Analysis Design</li> <li>• Research for Advanced Scientific Publications</li> <li>• Progress Report Presentation</li> <li>• Dissertation Research Proposal Design</li> <li>• Students collect portfolios and progress</li> <li>• dissertation preparation</li> </ul>
<b>Study and examination requirements and forms of examination</b>	<ul style="list-style-type: none"> <li>• Mid-semester progress report assessment, final progress report assessment.</li> <li>• 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.</li> </ul>
<b>Media employed</b>	Power point
<b>Reading Materials</b>	<p>Glatthorn, A. A., &amp; Joyner, R. L. (2005). Writing the winning thesis or dissertation: A step-by-step guide. Corwin Press.</p> <p>Kasperson, J. X., Kasperson, R. E., Turner, B. L., Hsieh, W., &amp; Schiller, A. (2022). Vulnerability to global environmental change. In The social contours of risk (pp. 245-285). Routledge.</p> <p>Louv, R., &amp; Fitzpatrick, J. W. (2012). Citizen science: Public participation in environmental research. Cornell University Press.</p>

	<p>Pohl, C. (2005). Transdisciplinary collaboration in environmental research. <i>Futures</i>, 37(10), 1159-1178.</p> <p>Randolph, J. (2009). A guide to writing the dissertation literature review. <i>Practical Assessment, Research, and Evaluation</i>, 14(1), 13.</p> <p>Svarstad, H., Petersen, L. K., Rothman, D., Siepel, H., &amp; Wätzold, F. (2008). Discursive biases of the environmental research framework DPSIR. <i>Land use policy</i>, 25(1), 116-125</p>
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