

7. Research 2

Module designation	Research 2
Code, if applicable	PCIL 9352
Semester(s) in which the module is taught	3 rd
Person responsible for the module	Head of Study Program; Promotor & Co-Promotor.
Language	<i>Indonesian and English</i>
Relation to curriculum	<i>Compulsory</i>
Type of teaching, contact hours	<ul style="list-style-type: none"> • Discussion with Principal Supervisor (32 hours, 2 hours weekly for 16 weeks) • Discussion with Co-Supervisor (32 hours, 2 hours weekly for 16 weeks) • Reading materials and literature review (160 hours, 10 hours weekly for 16 weeks) • Developing data collection strategy (160 hours, 10 hours weekly for 16 weeks) • Developing data analysis strategy (160 hours, 10 hours weekly for 16 weeks) • Preparing progress report (78 hours, 4.875 hours weekly for 16 weeks) • Writing dissertation draft (128 hours, 8 hours weekly for 16 weeks) <p>Total hours in 1 semester = 750 hours</p>
Student Workload for One ECTS	<ul style="list-style-type: none"> • Face-to-face discussion with Principal Supervisor (1.07 hours) • Face-to-face discussion with Co-Supervisor (1.07 hours) • Reading books, materials, literature review, etc. (5.33 hours) • Developing research conceptual and pathway framework in data collection (5.33 hours) • Developing research conceptual and pathway framework in data analysis (5.33 hours) • Preparing progress report (2.6 hours) • Writing dissertation draft (4.27 hours) <p>Total workload for one ECTS : 25</p>

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	5 SKS which equivalent to 30 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.
Required and recommended prerequisites for joining the module	Existing competencies in research methodology and scientific writing.
Module objectives/intended learning outcomes	<ul style="list-style-type: none"> • Able to design research according to scientific research methodology. • Able to carry out scientific research for doctoral program dissertation.
Content	<ul style="list-style-type: none"> • Operational definitions, indicators, and research variables; • Theoretical framework and research concept framework; • Population, sample & research variables; • Techniques of data collection; • Methods of research data analysis; • Portfolio of progress reports of the dissertation draft.
Exams and assessment formats	Mid-semester progress report assessment, final progress report assessment.
Study and examination requirements	Requirements for successfully passing the module 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.

<p>Reading list</p>	<p>Modul of Writing Dissertation DES</p> <p>Glatthorn, A. A., & 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., & 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>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., & 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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