

7.2.3. Research 2

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| Module designation | Research 2 |
| Module level, if applicable | - |
| Code, if applicable | PCIL 9273 |
| Subtitle, if applicable | - |
| Courses, if applicable | - |
| Semester(s) in which the module is taught | 2 nd 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 hours weekly for 16 weeks) • Discussion with Co-Supervisor (32 hours, 2 hours weekly for 16 weeks) • Reading materials and literature review (128 hours, 8 hours weekly for 16 weeks) • Developing data collection strategy (128 hours, 8 hours weekly for 16 weeks) • Developing data analysis strategy (112 hours, 7 hours weekly for 16 weeks) • Preparing progress report (35 hours, 2.2 hour weekly for 16 weeks) <p>Total hours in 1 semester = 467 hours</p> |
| Workload | <ul style="list-style-type: none"> - Meeting with Supervisors and Co-supervisor - Developing research conceptual and pathway framework in data collection and data analysis - Preparing progress report - Preparing presentation materials for result and progress presentation |
| Laboratory Work | Students taking this course have the chance to utilize the computer laboratory within the Diponegoro University to practice the environmental modelling and simulation |
| Credit points | 7 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. |

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| Recommended prerequisites | Existing competencies in literature review 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"> - Introduction to Research Course II - Roadmap and Research Design - Population, Sample and Research Variables - Data collection technique - Research Data Analysis Method - Data Analysis Design - Research for Scientific Publications - Data Analysis Design - Research for Advanced Scientific Publications - Progress Report Presentation - Dissertation Research Proposal Design - Students collect portfolios and progress dissertation preparation |
| 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>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 The social contours of risk (pp. 245-285). Routledge.</p> <p>Louv, R., & Fitzpatrick, J. W. (2012). Citizen science: Public participation in environmental research. Cornell University Press.</p> <p>Pohl, C. (2005). Transdisciplinary collaboration in environmental research. Futures, 37(10), 1159-1178.</p> <p>Randolph, J. (2009). A guide to writing the dissertation literature review. Practical Assessment, Research, and Evaluation, 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. Land use policy, 25(1), 116-125</p> |