Module Descriptions

Module designation	**Final Project**
Semester(s) in which the module is taught	8th/Fourth Year
Person responsible for the module	Prof. Dr. Utiya Azizah, M.Pd.
Language	Bahasa Indonesia (Regular Class) English (Internasional Class)
Relation to curriculum	Compulsory course
Teaching methods	Project-Based Learning, 4 workhours per week (4 x 170 minutes per week)
Workload (incl. contact hours, self-study hours)	1 CU for a bachelor's degree equals 170 minutes (50 minutes face-to-face, 60 minutes structured, 60 minutes independent learning) per week × 14 weeks, excluding mid and end-term exams. = 39.67 work hours per semester = 1.587 ECTS.
Credit points	4 Credit Units (CU) = 6.36 ECTS
Required and recommended prerequisites for joining the module	Final Project Proposal
Module objectives/intended learning outcomes	Upon successful completion of this course, students are expected to: 1. Formulate and analyze research problems specifically within the field of chemistry education; 2. Utilize diverse information technologies effectively in the preparation of their final project; 3. Organize and manage the development of their final project independently, demonstrating both theoretical and practical application through the project.
Content	The final project course aims to enable students to understand and apply fundamental research concepts. In this assignment, students are directed to prepare a research proposal by examining a background problem, identifying issues, and defining limitations, formulations, and research objectives. This is followed by a literature review, a conceptual framework, and the formulation of preliminary hypotheses. Subsequently, data collection and technical analysis are conducted in alignment with the established problem formulation. Students perform data analysis, explain the findings, draw conclusions, and compile a research report using proper academic writing techniques and ensuring it is free from plagiarism. Once the plagiarism check is cleared, students are scheduled for a final project defense before a board of examiners. By completing a final project course, students demonstrate their ability to conduct structured scientific research and prove they are ready to face professional challenges in their field.

Examination forms	Essay and Presentation
Study and examination requirements	Study and Examination Requirements/Forms of Examination: 1. Individual assignments (literature review, analysis) 2. Discussions 3. Presentations and project documentation Assessment Recap (Project-Based Learning): 1. Project/Product Assessment: 100% Total: 100%
Reading list	1. Universitas Negeri Surabaya. (2014). *Pedoman penulisan skripsi*. 2. Song, H.-Y., Walker, J. A., & Tasuo, J. (2022). *Writing successful scientific papers: A user's guide*. Panmu Education Co. Ltd. 3. Love, G. L. (2021). *Writing and publishing scientific papers: A primer for the non-English speaker*. Open Book Publishers. 4. Belcher, W. L. (2019). *Writing your journal article in twelve weeks: A guide to academic publishing success* (2nd ed.). University of Chicago Press. 5. Thomas, C. G. (2021). *Research methodology and scientific writing*. Springer. 6. Reis, S., & Reis, A. (2013). *How to write your first scientific paper*. https://doi.org/10.1109/IEDEC.2013.6526784 7. Khatri, B. (2022). Writing an effective abstract for a scientific paper. *Nepalese Journal of Development and Rural Studies*, *19*, 1–7. https://doi.org/10.3126/njdrs.v19i01.51910 8. Ayu, F., Anggriani, D., & Nizamuddin. (2023). Improving students' ability in writing scientific papers through process approach. *The International Conference on Education, Social Sciences and Technology (ICESST)*, *2*, 77–86. https://doi.org/10.55606/icesst.v2i1.272 9. Wahyuddin, W., Syafaruddin, & Maharida. (2022). Training on using Mendeley for citations in writing scientific papers for students. *Jurnal Pengabdian Masyarakat Bestari*, *1*, 1063–1072. https://doi.org/10.55927/jpmb.v1i9.2064 10. Klahr, S. (2007). Guidelines for writing a scientific paper: An address to beginners. *Nephrology*, *2*, s230–s234. https://doi.org/10.1111/j.1440-1797.1996.tb00178.x 11. Léane, J., Boudin, F., Dufour, R., & Hernandez, N. (2023). *Text revision in scientific writing assistance: An overview*. 12. Relevance Article(s) from journal that indexed in Scopus, Google Scholar and SINTA