



**UNIVERSITAS NEGERI YOGYAKARTA**  
 FACULTY OF MATHEMATICS AND NATURAL SCIENCES  
 DEPARTMENT OF CHEMISTRY EDUCATION  
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**Bachelor of Education in Chemistry**

**MODULE HANDBOOK**

Module name:	<b>Undergraduate Thesis Writing</b>
Module level, if applicable:	Undergraduate
Code:	SPK 6601
Sub-heading, if applicable:	-
Classes, if applicable:	2
Semester:	8 <sup>th</sup>
Module coordinator:	Sukisman Purtadi, M.Pd
Lecturer(s):	Field Supervisor
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format / class hours per week during the semester:	300 minutes lectures, 360 minutes individual study, and 360 minutes structured activities per week.
Workload:	Total workload consists of 300 minutes lectures, 360 minutes individual study, and 360 minutes structured activities per week.for 16 weeks.
Credit points:	6 SKS (9.85 ETCS)
Prerequisites course(s):	Chemistry Education Research Methodology
Course Outcomes	<p>After taking this course the students have ability to:</p> <p>CO1. take responsibility for maintaining research ethics while carrying out Tasks, Endings, Thesis, and sincerely dedicate the thesis writing results for the advancement of education</p> <p>CO2. apply (plan, make, and present) basic research concepts</p> <p>CO3. analyze educational problems and submit appropriate solutions, think critically, be able to explain the relevance of research with existing theoretical studies and have the ability to communicate effectively in spoken and written forms</p> <p>CO4. place themselves in various situations related to institutions, students, and the community</p>
Content:	<p>This course guides students to understand and be able to apply the basic concepts of research. Students are led to write research proposals by analyzing problems from a condition (background problems), identifying problems, problem constraints, formulating problems, research objectives, looking for relevant sources of study, making thinking frames, proposing temporary problem solving (hypotheses) or submitting more detailed research questions. Students are also guided to choose appropriate research methods, sample populations and data analysis</p>

	techniques. The final assignment of the thesis is prepared in accordance with the Final Project Thesis Handbook.																																		
Study / exam achievements:	<p>Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude. The final mark will be weight as follow:</p> <table border="1"> <thead> <tr> <th>CO</th> <th>Component</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>CO1,</td> <td>Selection and formulation of problems</td> <td>10%</td> </tr> <tr> <td>CO2,</td> <td rowspan="2">The relevance of the framework / theoretical study with hypotheses and / or research problems and the extent of the source</td> <td rowspan="2">10%</td> </tr> <tr> <td>CO3,</td> </tr> <tr> <td>CO4.</td> <td>Accuracy of methodology (sampling technique, data collection, analysis, etc.)</td> <td>10%</td> </tr> <tr> <td></td> <td>Depth of discussion and description / exposure</td> <td>10%</td> </tr> <tr> <td></td> <td>Language and the writing</td> <td>10%</td> </tr> <tr> <td></td> <td>The ability to express opinions logically and correctly</td> <td>15%</td> </tr> <tr> <td></td> <td>Accuracy in answering the questions</td> <td>15%</td> </tr> <tr> <td></td> <td>Material mastery</td> <td>10%</td> </tr> <tr> <td></td> <td>Attitude and behavior</td> <td>10%</td> </tr> <tr> <td></td> <td><b>Total</b></td> <td><b>100%</b></td> </tr> </tbody> </table>	CO	Component	Weight	CO1,	Selection and formulation of problems	10%	CO2,	The relevance of the framework / theoretical study with hypotheses and / or research problems and the extent of the source	10%	CO3,	CO4.	Accuracy of methodology (sampling technique, data collection, analysis, etc.)	10%		Depth of discussion and description / exposure	10%		Language and the writing	10%		The ability to express opinions logically and correctly	15%		Accuracy in answering the questions	15%		Material mastery	10%		Attitude and behavior	10%		<b>Total</b>	<b>100%</b>
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Forms of media:	Board, LCD Projector, Laptop/Computer																																		
Literature:	Universitas Negri Yogyakarta. 2017. Pedoman Penulisan Tugas Akhir. Yogyakarta : Universitas Negri Yogyakarta																																		

### PLO and CO mapping

	PLO					
	Attitude		Knowledge	Specific Skill	General Skill	
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6
CO1	√					
CO2			√	√		
CO3					√	
CO4						√