



# UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

Department of Computer Science and Electronics

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## Bachelor in Electronics and Instrumentation

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## MODULE HANDBOOK

Module name	: Final Project						
Module level, if applicable	: Undergraduate						
Code, if applicable	: MIE213005, MIE214001, MIE214004						
Courses, if applicable	1. Seminar 2. Undergraduate Thesis Proposal 3. Undergraduate Thesis						
Semester(s) in which the module is taught	6,7,8						
Person responsible for the module	: Bambang Nurcahyo Prastowo						
Lecturer(s)	:						
Language	: Bahasa Indonesia, English						
Relation to curriculum	: Compulsory Course						
Teaching methods	: Student Centered Learning						
Workload (incl. contact hours, self-study hours)	: 400 hours						
Credit points	: 9 SKS						
Requirements according to the examination regulations	: 5 consultation meetings for Seminar 6 consultation meetings for Undergraduate Thesis Proposal 8 consultation meetings for Undergraduate Thesis						
Required and recommended prerequisites for joining the module	: Introduction to Research Methodology						
Learning outcomes and their corresponding PLOs	After completing this module, the students are: CO1. having basic research, writing, communication, and critical thinking skills CO2. gain knowledge in research ethical conductresearch to elementary project management skill CO3. able to take initiative research work independently CO4. CO.5						
	PLO		CO1	CO2	CO3	CO4	CO5
Program	PLO1						
Learning	PLO2		√	√	√	√	
Outcome	PLO3		√	√	√	√	

	<table><tr><td>(PLO)</td><td>PLO4</td><td></td><td></td><td>√</td><td>√</td><td>√</td></tr><tr><td></td><td>PLO5</td><td></td><td></td><td>√</td><td>√</td><td></td></tr></table>	(PLO)	PLO4			√	√	√		PLO5			√	√	
(PLO)	PLO4			√	√	√									
	PLO5			√	√										
Content	<p>1. Research Skills: Students should develop advanced research skills, including the ability to identify and analyze relevant literature, formulate research questions, design research methods, and collect and analyze data.</p> <p>2. Critical Thinking: Undergraduate theses often require students to engage in critical thinking and problem-solving, as they need to evaluate existing knowledge, identify gaps in the literature, and propose novel solutions or insights.</p> <p>3. Writing and Communication: Students are expected to improve their writing and communication skills as they must document their research in a clear, organized, and coherent manner. This includes the ability to write a well-structured thesis, present findings, and defend their work in oral presentations.</p> <p>5. Project Management: Students will learn project management skills as they need to plan and execute a substantial research project within a specified timeframe. This includes setting milestones, managing resources, and staying on track to meet deadlines.</p> <p>6. Ethical Conduct: An understanding of research ethics and the responsible conduct of research is typically emphasized. Students should be aware of ethical considerations in data collection, participant consent, and reporting results.</p> <p>7. Independence and Initiative: The thesis experience encourages students to work independently and take the initiative in their research. They should be able to make decisions, solve problems, and manage their own research project.</p> <p>4. Data Analysis and Interpretation: Depending on the field of study, students may be required to gather and analyze data. Course outcomes may include proficiency in data analysis software, statistical methods, and the ability to draw meaningful conclusions from data.</p> <p>8. Presentation Skills: The ability to effectively present their research findings to peers, advisors, and potentially in public forums is often a course outcome. This includes creating compelling visual aids and delivering clear and engaging presentations.</p> <p>9. Critical Evaluation: Students should be able to critically evaluate their own work, acknowledge its limitations, and consider avenues for future research.</p>														
Study and examination requirements and examination forms															
Media employed	: discussion, dissemination, experiment, presentation														

Assessments and evaluation							
	<b>Type</b>	<b>Percentage</b>	<b>CO1</b>	<b>CO2</b>	<b>CO3</b>	<b>CO4</b>	<b>CO5</b>
	Seminar	20	√	√	√		
	Proposal	20	√	√	√		
	Thesis	60			√	√	√
	Total	100					
Reading list							

**Created date** : November 15<sup>th</sup>, 2023

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