

**UNDERGRADUATE PROGRAM IN ELECTRONICS AND INSTRUMENTATION**  
**DEPARTMENT OF COMPUTER SCIENCE AND ELECTRONICS**  
**FACULTY OF MATHEMATICS AND NATURAL SCIENCES**  
**UNIVERSITAS GADJAH MADA**

Module name	<b>Undergraduate Thesis Proposal</b>																	
Module level	Undergraduate																	
Code	MII-4001																	
Courses (if applicable)	<b>Undergraduate Thesis Proposal</b>																	
Semester	Even																	
Contact person	Undergraduate Thesis Proposal Advisor																	
Lecturer	Undergraduate Thesis Proposal Advisor																	
Language	Bahasa Indonesia																	
Relation to curriculum	1. Undergraduate degree program, compulsory, 6 <sup>th</sup> semester.																	
Type of teaching, contact hours	1. Undergraduate degree program: consultations and presentations, < 10 students, two times per week.																	
Workload	1. Consultation and presentation: 2x 50 = 100 minutes per week 2. Data Collection, analysis and design: 2x 60 = 120 minutes (2hours) per week 3. Private study(writing): 2x 60 = 120 minutes (2hours) per week																	
Credit points	2 credit points (sks).																	
Requirements according to the examination regulations	A student must have met His/Her advisor at least 75% of the entire semester.																	
Recommended prerequisites	100 credits, MII 3001 Seminar/parallel																	
Learning outcomes and their corresponding PLOs	After completing this module, a student is expected to:  <table><tr><td>CO 1</td><td>Capable of determining the main objective and research contribution in the field of electronics and instrumentation (i.e., improve a computation method / an algorithm, produce a computation / mathematical model, develop a program / system, and prototype) clearly</td><td>PLO 2 PLO 3 PLO 7</td></tr><tr><td>CO 2</td><td>Capable of formulating research questions clearly based on the relevant background (showing with the use of relevant literatures for references)</td><td>PLO 5</td></tr><tr><td>CO 3</td><td>Capable of writing the step-by-step of research plans that match with research methodology, and an appropriate testing plan</td><td>PLO 6</td></tr><tr><td>CO4</td><td>Capable of showing initiatives and motivation, working independently, having academic ethics, and interacting well</td><td>PLO 6</td></tr><tr><td>CO5</td><td>Capable of presenting proposal effectively, self confidently, interestingly, orderly, clearly, and easy to understand</td><td>PLO 6</td></tr></table>			CO 1	Capable of determining the main objective and research contribution in the field of electronics and instrumentation (i.e., improve a computation method / an algorithm, produce a computation / mathematical model, develop a program / system, and prototype) clearly	PLO 2 PLO 3 PLO 7	CO 2	Capable of formulating research questions clearly based on the relevant background (showing with the use of relevant literatures for references)	PLO 5	CO 3	Capable of writing the step-by-step of research plans that match with research methodology, and an appropriate testing plan	PLO 6	CO4	Capable of showing initiatives and motivation, working independently, having academic ethics, and interacting well	PLO 6	CO5	Capable of presenting proposal effectively, self confidently, interestingly, orderly, clearly, and easy to understand	PLO 6
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	<div>CO6</div> <div>Capable of writing proposal using Bahasa Indonesia and correctly, and proposal that meets writing guides of a undergraduate thesis</div> <div>CO7</div> <div>Capable of mastering basic theories in electronics and instrumentation (shown by the ability to answer the questions)</div>	<div>PLO 6</div> <div>PLO 4</div>		
Content	The undergraduate thesis proposal to find out the topic in the form of design, research design, or research proposal that will be carried out and compiled by a student about a research material for doing a thesis in the field of electronics and instrumentation. Writing a thesis proposal using specific rules with the guidance of lecturer			
Study and examination requirements and forms of examination	Final report (proposal manuscript), and Examination.			
Media employed	LCD, whiteboard, computers			
Assessments and Evaluation	CO	Evaluation Method	Type	Percentage
	CO1	Examination (presentation)	Summative	10%
	CO2	Examination (script)	Summative	10%
	CO3	Examination (script)	Summative	25%
	CO4	Examination (presentation)	Summative	10%
	CO5	Examination (presentation)	Summative	10%
	CO6	Examination (script)	Summative	25%
	CO7	Examination (presentation)	Summative	10%
Reading List	Relevance papers and journals, and related textbooks			