

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

Module name	Undergraduate Thesis Proposal															
Module level	Undergraduate															
Code	MII-4001															
Courses (if applicable)	Undergraduate Thesis Proposal															
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 th 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	<p>After completing this module, a student is expected to:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; vertical-align: top;">CO 1</td> <td style="width: 70%; border-bottom: 1px solid black;">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 style="width: 20%; vertical-align: top;">PLO 2 PLO 3 PLO 7</td> </tr> <tr> <td style="vertical-align: top;">CO 2</td> <td style="border-bottom: 1px solid black;">Capable of formulating research questions clearly based on the relevant background (showing with the use of relevant literatures for references)</td> <td style="vertical-align: top;">PLO 5</td> </tr> <tr> <td style="vertical-align: top;">CO 3</td> <td style="border-bottom: 1px solid black;">Capable of writing the step-by-step of research plans that match with research methodology, and an appropriate testing plan</td> <td style="vertical-align: top;">PLO 6</td> </tr> <tr> <td style="vertical-align: top;">CO4</td> <td style="border-bottom: 1px solid black;">Capable of showing initiatives and motivation, working independently, having academic ethics, and interacting well</td> <td style="vertical-align: top;">PLO 6</td> </tr> <tr> <td style="vertical-align: top;">CO5</td> <td style="border-bottom: 1px solid black;">Capable of presenting proposal effectively, self confidently, interestingly, orderly, clearly, and easy to understand</td> <td style="vertical-align: top;">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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	<p>CO6 Capable of writing proposal using Bahasa Indonesia and correctly, and proposal that meets writing guides of a undergraduate thesis PLO 6</p> <p>CO7 Capable of mastering basic theories in electronics and instrumentation (shown by the ability to answer the questions) PLO 4</p>																																
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	<table border="1"> <thead> <tr> <th>CO</th> <th>Evaluation Method</th> <th>Type</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>CO1</td> <td>Examination (presentation)</td> <td>Summative</td> <td>10%</td> </tr> <tr> <td>CO2</td> <td>Examination (script)</td> <td>Summative</td> <td>10%</td> </tr> <tr> <td>CO3</td> <td>Examination (script)</td> <td>Summative</td> <td>25%</td> </tr> <tr> <td>CO4</td> <td>Examination (presentation)</td> <td>Summative</td> <td>10%</td> </tr> <tr> <td>CO5</td> <td>Examination (presentation)</td> <td>Summative</td> <td>10%</td> </tr> <tr> <td>CO6</td> <td>Examination (script)</td> <td>Summative</td> <td>25%</td> </tr> <tr> <td>CO7</td> <td>Examination (presentation)</td> <td>Summative</td> <td>10%</td> </tr> </tbody> </table>	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%
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