MODULE HANDBOOK
Master Program in Computer Science
Department of Computer Science and Electronics
Faculty of Mathematics and Natural Sciences
Universitas Gadjah Mada

Research Method

Module name	**Research Method**
Module level	Master
Code	MII-6001
Courses (if applicable)	Research Methodolog
Semester	Odd (Gasal)
Contact person	Aina Musdholifah, S.Kom., M.Kom., Ph.D.
Lecturer	Drs. Edi Winarko, M.Sc., Ph.D. Drs. Agus Harjoko, M.Sc., Ph.D. Dr. Agfianto Eko Putro, M.Sc. Drs. Retantyo Wardoyo, M.Sc., Ph.D. Aina Musdholifah, S.Kom., M.Kom., Ph.D. Dr. Azhari, M.T.
Language	Bahasa Indonesia
Relation to curriculum	master program, compulsory, 1st semester.
Type of teaching, contact hours	master program: lectures, < 17 student, Tuesday, 07:30 – 10:00 Wednesday, 13.00-15.30.
Workload	1. Lectures: 3 x 50 = 150 minutes (2.5 hours) per week. 2. Exercises and Assignments: 3 x 60 = 180 minutes (3 hours) per week. 3. Private study: 3 x 60 = 180 minutes (3 hours) per week.
Credit points	3 credit points (SKS).
Requirements according to the examination regulations	-
Recommended prerequisites	-
Learning outcomes and their corresponding PLOs	After completing this module, a student is expected to: ***CO-1*** able to compile research topics and questions and formulate their plan, able to choose appropiate methods to answer predetermined research questions and contribute to the modification of existing methods — **PLO-6** ***CO-2*** able to do literature review — **PLO-9** ***CO-3*** able to write proposal thesis and thesis — **PLO-6, PLO-7, PLO-8** ***CO-4*** able to write research report in published scientific work form — **PLO-1, PLO-8, PLO-9**

<table>
<tr><td></td><td></td></tr>
<tr><td>Content</td><td>Research Methodology Course gives students an understanding of how to conduct research in the field of computer science well. In this course also be discussed how to prepare proposals and thesis reports in accordance with the guidelines of writing and make scientific writing. By gaining knowledge about these things, students are expected to be able to carry out their research and produce good theses and scientific works.</td></tr>
<tr><td>Study and examination requirements and forms of examination</td><td>Mid Term and Final Exam</td></tr>
<tr><td>Media employed</td><td>LCD, blackboard, and websites.</td></tr>
<tr><td>Assessments and Evaluation</td><td>
<table>
<tr><th>CO</th><th>Method</th><th>Supported PLO</th><th>Type</th><th>Percentag</th><th>Total</th></tr>
<tr><td>CO-1</td><td>Assignment</td><td>PLO-6</td><td>Formatif</td><td>5 %</td><td>5 %</td></tr>
<tr><td>CO-2</td><td>Assignment</td><td>PLO-9</td><td>Formatif</td><td>10 %</td><td>10 %</td></tr>
<tr><td>CO-3</td><td>Question in</td><td>PLO-6</td><td>Sumatif</td><td>15%</td><td rowspan="6">50 %</td></tr>
<tr><td></td><td>MidTerm</td><td>PLO-7</td><td>Sumatif</td><td>10 %</td></tr>
<tr><td></td><td>Exam</td><td>PLO-8</td><td>Sumatif</td><td>10 %</td></tr>
<tr><td></td><td>Assignment</td><td>PLO-6</td><td>Formatif</td><td>7,5 %</td></tr>
<tr><td></td><td></td><td>PLO-8</td><td>Formatif</td><td>7,5 %</td></tr>
<tr><td>CO-4</td><td>Question in</td><td>PLO-1</td><td>Sumatif</td><td>5 %</td></tr>
<tr><td></td><td>Final Exam</td><td>PLO-8</td><td>Sumatif</td><td>10 %</td><td rowspan="3">30 %</td></tr>
<tr><td></td><td></td><td>PLO-9</td><td>Sumatif</td><td>5 %</td></tr>
<tr><td></td><td>Assignment</td><td>PLO-9</td><td>Formatif</td><td>15%</td></tr>
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<tr><td>Reading List</td><td>Panduan Penulisan Tugas Akhir, FMIPA.

M. Berndtsson, J. Hansson, B. Olsson, and B. Lundell, Thesis Projects: A Guide for students in Computer Science and Information Systems, 2 nd Ed, 2008.

P. Daniel, S., Research Methodology, Kalpaz Publications, 2011.</td></tr>
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