



# UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

Department of Mathematics

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## Doctor in Mathematics

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## MODULE HANDBOOK

Module designation	<i>Dissertation (Regular)</i>
Code, if applicable	<i>MMM-9999</i>
Subtitle, if applicable	-
Semester(s) in which the module is taught	<i>It can be started in the second semester of each student</i>
Person responsible for the module	<i>Head of the Study Programme</i>
Language	<i>Bahasa Indonesia</i>
Relation to curriculum	<i>Compulsory course</i>
Teaching methods	<i>Discussion between student and his/her promotor Team, flipped classroom, project.</i>
Workload (incl. contact hours, self-study hours)	<i>Total workload is 3173.33 hours per semester, which consists of 50 minutes lectures per week, 120 minutes structured activities per week, 180 minutes individual study per week, in total is 16 weeks per semester.</i>
Credit points in Credit Units	<i>34</i>

<p>Required and recommended prerequisites for joining the module</p>	<ol style="list-style-type: none"> <li>1. Starting the second semester and ending after the student submits the document of Dissertation and Publication Evaluation, each student is to do monitoring and evaluation (Monev) as a component of Research Work.</li> <li>2. The students who are in the second or third semester and have passed their elective courses and Literature Review and Philosophy of Science with a minimal GPA is 3.25 to do the Comprehensive Examination.</li> <li>3. At least one publication in an international journal in international databases and have a ready dissertation manuscript with novelty, the TOEFL Score is at least 500, and the academic potential test (it is like the GRE - Graduate Record Examination Test) is at least 550 to Dissertation and Publication Evaluations.</li> <li>4. The average score is at least 3.25 for courses, comprehensive examinations, Research work, and dissertation and publication evaluations to do Dissertation Defence.</li> <li>5. The GPA is at least 3.25 to have a judicium and succeed doctoral programme in mathematics.</li> </ol>										
<p>Module objectives/intended learning outcomes</p>	<p>After completing this course, the students should have the ability to:</p> <table border="1" data-bbox="630 888 1383 1251"> <tr> <td data-bbox="630 888 716 957">CO 1</td> <td data-bbox="721 888 1383 957">Write an academic report</td> </tr> <tr> <td data-bbox="630 963 716 1020">CO 2</td> <td data-bbox="721 963 1383 1020">Write and publish articles.</td> </tr> <tr> <td data-bbox="630 1026 716 1083">CO 3</td> <td data-bbox="721 1026 1383 1083">Generate research</td> </tr> <tr> <td data-bbox="630 1089 716 1167">CO 4</td> <td data-bbox="721 1089 1383 1167">Present and communicate their research confidently with a good ethic and performance</td> </tr> <tr> <td data-bbox="630 1173 716 1251">CO 5</td> <td data-bbox="721 1173 1383 1251">Apply their knowledge to develop their academic abilities, both in teaching, research, and community services.</td> </tr> </table>	CO 1	Write an academic report	CO 2	Write and publish articles.	CO 3	Generate research	CO 4	Present and communicate their research confidently with a good ethic and performance	CO 5	Apply their knowledge to develop their academic abilities, both in teaching, research, and community services.
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<p>Content</p>	<ol style="list-style-type: none"> <li>1. Comprehensive Proposal Examination.</li> <li>2. Publication.</li> <li>3. Research Activity.</li> <li>4. Dissertation Evaluation.</li> <li>5. Closed Examination/Dissertation Defence.</li> </ol>										
<p>Examination forms</p>	<p>Research Proposal, Portfolio, oral presentation, Dissertation Manuscript, and Paper(s).</p>										
<p>Study and examination requirements</p>	<p>Following the associated rubric provided by the Doctoral Study Programme in Mathematics.</p> <p>The minimum grade to pass this course is B+.</p>										
<p>Media employed</p>	<p>Board, LCD Projector, Laptop/Computer, internet connection.</p>										
<p>Reading list</p>	<p>Books and publications that support each student's research.</p>										

### CO-PLO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6
CO 1	v	v	v	v	v	v
CO 2	v	v	v	v	v	v
CO 3	v	v	v	v	v	v
CO 4	v	v	v	v	v	v
CO 5	v	v	v	v	v	v

Last Modified Date : March 23, 2024