



# UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

Department of Mathematics

Sekip Utara Bulaksumur Yogyakarta 55281 Telp: +62 274 552243 Fax: +62 274 555131 Email: [math@ugm.ac.id](mailto:math@ugm.ac.id) Website: <http://math.fmipa.ugm.ac.id>

## Doctor in Mathematics

Telp : +62 274 552243

Email : [maths3@ugm.ac.id](mailto:maths3@ugm.ac.id); [kaprodi-s3-matematika.mipa@ugm.ac.id](mailto:kaprodi-s3-matematika.mipa@ugm.ac.id)

Website : <http://s3math.fmipa.ugm.ac.id/>

## MODULE HANDBOOK

Module designation	<i>Dissertation (Regular)</i>
Code, if applicable	<i>MMM-9999</i>
Subtitle, if applicable	<i>Dissertation Defence</i>
Semester(s) in which the module is taught	<i>It can be started at least in the sixth 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 560 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	6
Required and recommended prerequisites for joining the module	<ol style="list-style-type: none"><li>1. <i>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.</i></li><li>2. <i>The average score is at least 3.25 for courses, Comprehensive Proposal Examinations, Publications, Research Activities, and Dissertation Evaluation.</i></li></ol>

Module objectives/intended learning outcomes	<p><i>After completing this course, the students should have the ability to:</i></p> <table border="1" data-bbox="630 247 1388 611"> <tr> <td data-bbox="630 247 716 317">CO 1</td> <td data-bbox="724 247 1388 317">Write an academic report</td> </tr> <tr> <td data-bbox="630 327 716 396">CO 2</td> <td data-bbox="724 327 1388 396">Write and publish articles.</td> </tr> <tr> <td data-bbox="630 407 716 476">CO 3</td> <td data-bbox="724 407 1388 476">Generate research</td> </tr> <tr> <td data-bbox="630 487 716 556">CO 4</td> <td data-bbox="724 487 1388 556">Present and communicate their research confidently with a good ethic and performance</td> </tr> <tr> <td data-bbox="630 567 716 636">CO 5</td> <td data-bbox="724 567 1388 636">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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Content	<ol style="list-style-type: none"> <li>1. <i>Publication: published paper(s). At least one publication in an international journal in international databases.</i></li> <li>2. <i>The dissertation manuscript consists of:</i> <ol style="list-style-type: none"> <li>a. <i>Introduction: Background, Research Problem formulation, Research Aims and Benefits, Study Literature and originality of research, Research Methodology, Systematics of dissertation writing.</i></li> <li>b. <i>Basic Theory of the Research</i></li> <li>c. <i>Results</i></li> <li>d. <i>References</i></li> <li>e. <i>Appendices, if any.</i></li> </ol> </li> </ol>										
Examination forms	<i>Oral presentation, Questions – Answers to the dissertation, publications, and related topics.</i>										
Study and examination requirements	<p><i>Following the associated rubric provided by the Doctoral Study Programme in Mathematics due to:</i></p> <ol style="list-style-type: none"> <li>1. <i>Dissertation Manuscript Evaluation consists of:</i> <ol style="list-style-type: none"> <li>a. <i>Novelty and originality</i></li> <li>b. <i>Scientific quality</i></li> <li>c. <i>Scientific contribution</i></li> <li>d. <i>Validity of results</i></li> </ol> </li> <li>2. <i>Publication Evaluation - published paper(s) consists of:</i> <ol style="list-style-type: none"> <li>a. <i>Quality of publisher</i></li> <li>b. <i>Quality of the conference ( if it is a proceeding)</i></li> <li>c. <i>Systematics of writing</i></li> <li>d. <i>Novelty</i></li> <li>e. <i>Language</i></li> </ol> </li> </ol> <p><i>The minimum grade to pass this course is B+.</i></p>										
Media employed	<i>Board, LCD Projector, Laptop/Computer, internet connection.</i>										
Reading list	<i>Books and publications that support each student’s research.</i>										

### 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

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