



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

Doctor in Mathematics

Telp : +62 274 552243

Email : maths3@ugm.ac.id; kaprodi-s3-matematika.mipa@ugm.ac.id

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

MODULE HANDBOOK

| | | | | | | | | | |
|---|---|-------------|---------------------------------|-------------|--------------------------|-------------|---|-------------|---|
| Module designation | <i>Dissertation (By Research)</i> | | | | | | | | |
| Code, if applicable | <i>MMM-9998</i> | | | | | | | | |
| Subtitle, if applicable | <i>Comprehensive Proposal Examination</i> | | | | | | | | |
| Semester(s) in which the module is taught | <i>The second or third 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 373.33 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>4</i> | | | | | | | | |
| Required and recommended prerequisites for joining the module | <i>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 minimum GPA is 3.25.</i> | | | | | | | | |
| Module objectives/intended learning outcomes | <p><i>After completing this course, the students should have the ability to:</i></p> <table border="1"> <tr> <td><i>CO 1</i></td> <td><i>Write an academic report</i></td> </tr> <tr> <td><i>CO 2</i></td> <td><i>Generate research</i></td> </tr> <tr> <td><i>CO 3</i></td> <td><i>Present and communicate their research confidently with a good ethic and performance</i></td> </tr> <tr> <td><i>CO 4</i></td> <td><i>Apply their knowledge to develop their academic abilities, both in teaching, research, and community services.</i></td> </tr> </table> | <i>CO 1</i> | <i>Write an academic report</i> | <i>CO 2</i> | <i>Generate research</i> | <i>CO 3</i> | <i>Present and communicate their research confidently with a good ethic and performance</i> | <i>CO 4</i> | <i>Apply their knowledge to develop their academic abilities, both in teaching, research, and community services.</i> |
| <i>CO 1</i> | <i>Write an academic report</i> | | | | | | | | |
| <i>CO 2</i> | <i>Generate research</i> | | | | | | | | |
| <i>CO 3</i> | <i>Present and communicate their research confidently with a good ethic and performance</i> | | | | | | | | |
| <i>CO 4</i> | <i>Apply their knowledge to develop their academic abilities, both in teaching, research, and community services.</i> | | | | | | | | |

| | |
|------------------------------------|---|
| Content | <p><i>Research Proposal or dissertation which consists of:</i></p> <ol style="list-style-type: none"> 1. <i>Introduction: Background, Research Problem formulation, Research Aims and Benefits, Study Literature and originality of research, Research Methodology, Systematics of dissertation writing.</i> 2. <i>Basic Theory of the Research</i> 3. <i>Research Plan and Schedule</i> 4. <i>Temporary Results (if any)</i> 5. <i>References.</i> |
| Examination forms | <i>Research Proposal, oral presentation, and questions – answers.</i> |
| Study and examination requirements | <p><i>Following the associated rubric provided by the Doctoral Study Programme in Mathematics due to:</i></p> <ul style="list-style-type: none"> • <i>Potential novelty</i> • <i>Problem formulation</i> • <i>Mastery of theory and aim research material</i> • <i>Methodology</i> • <i>Potential for success</i> • <i>Language and writing</i> • <i>Ethics, communication, and performance</i> <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 | Books and publications that support each student’s research. |

CO-PLO Mapping

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

Last Modified Date : March 23, 2024

Catatan: nanti dihapus setelah sepakat

PLO 4: Menciptakan konsep dan/atau metode baru (original) di bidang matematika yang diakui secara nasional dan internasional.

