



# UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

Mathematics Department

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## Undergraduate Programme in Mathematics

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## MODULE HANDBOOK

Module name	Capita Selecta in Applied Mathematics A												
Module level, if applicable	Bachelor												
Code, if applicable	MMM-4349A												
Subtitle, if applicable													
Courses, if applicable	Capita Selecta in Applied Mathematics A												
Semester(s) in which the module is taught	7 <sup>th</sup> (seventh)												
Person responsible for the module	Chair of the Lab. of Applied Mathematics												
Lecturer(s)	Applied Mathematics Research Group Chair-appointed lecturer												
Language	Bahasa Indonesia												
Relation to curriculum	Bachelor Degree, Elective, 7 <sup>th</sup> semester												
Type of teaching, contact hours	150 minutes lectures and 180 minutes structured activities per week.												
Workload	Total workload is 136 hours per semester, which consists of 150 minutes lectures per week for 14 weeks, 180 minutes structured activities per week, 180 minutes individual study per week, in total is 16 weeks per semester, including mid exam and final exam.												
Credit points	3												
Requirements according to the examination regulations	Students have taken Capita Selecta in Applied Mathematics A course (MMM-4349A) and have an examination card where the course is stated on.												
Recommended prerequisites	Students have taken Introduction to Mathematics Modelling course (MMM-3303) and have participated in the final examination of the course. Before taking this course, students must have a good understanding about the concepts of Introduction to Mathematics Modelling												
Module objectives/intended learning outcomes	After completing this course the students will be able to : CO1. evaluate recent development of the subject.  CO2. identify more recent development of the subject by reading and studying journal papers.  CO3. analyze the application of the theory which is learned on this subject.												
Content	Content of this course may vary every year depend on the lecturer's expertise.												
Study and examination requirements and forms of examination	The final mark will be weighted as follows: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No</th> <th>Assessment methods (components, activities)</th> <th>Weight (percentage)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Final Examination</td> <td>35</td> </tr> <tr> <td>2</td> <td>Mid-Term Examination</td> <td>35</td> </tr> <tr> <td>4</td> <td>Class Activities: Quiz, Homework, Group Task</td> <td>30</td> </tr> </tbody> </table> <p>The initial cut- off points for grades A, B, C, and D should not be less than 80%, 70%, 50%, and 40%, respectively.</p>	No	Assessment methods (components, activities)	Weight (percentage)	1	Final Examination	35	2	Mid-Term Examination	35	4	Class Activities: Quiz, Homework, Group Task	30
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1	Final Examination	35											
2	Mid-Term Examination	35											
4	Class Activities: Quiz, Homework, Group Task	30											
Media employed	White/Black Board, LCD Projector, Laptop/Computer												
Reading List	Decided by Lecturer												

## PLO and CO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	LO 9
CO 1			√		√	√			√
CO 2			√		√	√			√
CO 3			√		√	√	√		√