

## UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

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## **Doctor in Mathematics**

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## **MODULE HANDBOOK**

Module NameAdvanced Capita Selecta on Applied Mathematics ACode, if applicableMMM-7311Subtitle, if applicableAdvanced Capita Selecta on Applied Mathematics ASemester(s) in which the module is taught1st or 2ndPerson responsible for the moduleChair of the Lab. of Applied MathematicsLanguageBahasa IndonesiaRelation to curriculumCompulsory / Elective course in doctoral Curriculum 2022-Teaching methodslecture, lesson, project.Workload (incl. contact hours, self-study hours)- Total workload is 232 hours per semester, which consists of 50 minutes lectures per week, 120 minutes structured activities per week, 120 minutes individual study per week, in total is 16 weeks per semester, including mid exam and final exam.Credit points in Credit Units3Required and recommended prerequisites for joining the moduleBefore taking this course, the students must have a good understanding the mathematical concept related to the topics.Module objectives/intended learning outcomesAfter completing this course, the students should have: CO 1. ability to use the theories in mathematics. CO 2. ability to combine the theories in mathematics. CO 3. ability to do research in applied mathematics.				
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Content	In this course, the students do some academic activities under supervision by the lecturer(s). The academic activities are provided by the literature studies for understanding one or more <u>theories or</u> <u>concepts from other disciplines</u> (not mathematics theories). The topics and also the syllabus will be decided related to the research topics of the student.		
Examination forms	Oral presentation, Essay, Projects		
Study and examination requirements	To pass the course, the minimum grade is B.The final mark will be computed from a proportional weight of assignments, mid examination and final examination. The final mark will be weighted as follows:No Assessment methodsWeight (percentage)1. Final Examination30 (15% case based, 30 (10% case based, 3. Project and Presentation2. Other Activities: Quiz, Homework, etc.15		
Media employed	Boards, projectors, Laptop/Computer		
Reading list	The reading list will be announced by the l	ecturer on the first meeting.	

## **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	v

Compilation Date	:	August 12, 2022
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