



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 Name	Topics in Stochastic
Module level, if applicable	Doctor degree
Code, if applicable	MMM-7317
Subtitle, if applicable	Topics in Stochastic
Semester(s) in which the module is taught	<i>1st or 2nd (first or second semester)</i>
Person responsible for the module	Chair of the Lab. of Applied Mathematics
Lecturer(s)	Appointed lecturer in Lab. Of Applied Mathematics
Language	Bahasa Indonesia
Relation to curriculum	Compulsory / elective / specialisation Names of other study programmes with which the module is shared
Teaching methods	Lecture, Discussion, Project-Based Presentation
Workload (incl. contact hours, self-study hours)	<i>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.</i>
Credit points in Credit Units	3
Required and recommended prerequisites for joining the module	Students should be proficient in stochastic processes

Module objectives/intended learning outcomes	<p>After completing this course, the students should have:</p> <p>CO 1. Ability to analyse the concept related to stochastic topics and ability to work on those topics</p> <p>CO 2. Ability to apply concept related to course topics in developing new ideas for research</p> <p>CO 3. Ability to develops concepts related to course topic to solve problem in their research topics</p>
Content	<ul style="list-style-type: none"> • This course is offered to accommodate new developments in research topics in the field of stochastics. • Topics will be drawn from contemporary research areas related to the student's research topic. • This course consists of core and advanced material on stochastics. • Lectures are conducted to strengthen students' scientific background to work in research areas in stochastics. • Topics and syllabus will be determined depending on the student's research topic.
Examination forms	Exam format may vary for each year depends on the lecturer, in principles case-based/project-based assessments will be at minimum 50%.
Study and examination requirements	The initial cut-off points for grades A, B, C, and D should not be less than 80%, 70%, 50%, and 40%, respectively.
Media employed	Board, LCD Projector, Laptop/Computer, Zoom
Reading list	Decided by Lecturers

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

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