



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	Capita Selecta in Advanced Statistics
Code, if applicable	MMM 7421
Subtitle, if applicable	Capita Selecta
Semester(s) in which the module is taught	1 st or 2 nd Semester
Person responsible for the module	Chair of Statistics Laboratory
Language	Bahasa Indonesia
Relation to curriculum	Elective <i>course</i>
Teaching methods	Lecture, 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 of structured activities per week, 120 minutes of individual study per week, in total is 16 weeks per semester, including mid exam and final exam.
Credit points in Credit Units	3
Required and recommended prerequisites for joining the module	-

Module objectives/intended learning outcomes	On successful completion of this course, students should be able to: CO 1 Analyze Characteristics of Actuarial Model CO 2 Expand Aggregate loss model CO 3 Make Construction of Empirical model CO 4 Develop credibility
Content	Characteristics of Actuarial Model, Aggregate loss model, Construction of Empirical model, Credibility
Examination forms	<i>Oral presentation and essay.</i>
Study and examination requirements	The weight of assignments will be as follows: 1. Quiz, homework, presentation 30% 2. Mid-semester exam 35% 3. Final exam 35% To pass the course, the minimum grade is B.
Media employed	online platforms, Learning management systems, LCD projectors, and whiteboards.
Reading list	1. Klugman, S. A., Panjer H. H., and Willmot G. E., 2012, <i>Loss Models: From Data to Decisions</i> , John Wiley & Sons, Inc. 2. Some recent papers related to the topic. .

CO-PLO Mapping

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

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