UNIVERSITAS GADJAH MADA
Faculty of Mathematics and Natural Sciences
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MODULE HANDBOOK

Module name:	*Topics in the computational of Financial Statistics and Actuarial Science B*
Code, if applicable:	MMM 7510
Subtitle, if applicable	
Semester(s) in which the module is taught:	1st or 2nd semester
Person responsible for the module:	Chair of Statistical Computing Research Group
Language:	Bahasa Indonesia
Relation to curriculum:	Doctoral Degree in Mathematics, Elective Course
Teaching methods	Lecture, classroom discussion, project-based learning.
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	Students have learned some basic course in statistics and statistical mathematics course Students also have some knowledge on statistical software, such as R
Module objectives/intended learning outcomes:	After completing this course, the students have ability to: CO 1. analyze the theoretical aspect of Database of Financial Services, related to the doctoral research being studied CO2. use software for doing Database of Financial Services related to the doctoral research being studied CO3. analyze some extended Database of Financial Services models and methods related to the doctoral research being studied
Content:	It will be derived from the research topic of the students. It will be focused on the theory, models, and method of specific data analysis used in the student research.
Examination forms	Oral presentation, essay, paper
Study and examination requirements and forms of examination:	The final mark will be weighted as follows: No — Assessment methods (components, activities) — Weight (percentage) 1 — Final Examination (portfolio/essay/oral presentation) — 35% 2 — Mid-Term Examination (portfolio/essay/presentation) — 35% 3 — Class Activities: Presentation — 30% To pass the course, the minimum grade is B.

Media employed:	Board, LCD Projector, Laptop/Computer
Reading List:	1. Köseoğlu, S.D., 2022, Financial Data Analytics: Theory and Application, Springer 2. Recent publication on Database of Financial Services, related to the research

Mapping of The COs and PLOs

	PLO – 1 S3 Mat	PLO – 2 S3 Mat	PLO – 3 S3 Mat	PLO – 4 S3 Mat	PLO – 5 S3 Mat	PLO –6 S3 Mat
CO 1	v	v	v		v	
CO 2	v	v	v		v	
CO 3	v	v	v		v	v

Last Modified Date : February 10, 2024

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CO 1	v	v	v		v	
CO 2	v	v	v		v	
CO 3	v	v	v		v	v

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