

UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

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MODULE HANDBOOK

Module name:	Topics in the computational of Statistical Mathematics B				
Code, if applicable:	MMM 7507				
Subtitle, if applicable					
Semester(s) in which the module is taught:	1 st or 2 nd semester				
Person responsible for the module:	Chair of Statistical Computing Research Group				
Language:	Bahasa Indonesia				
Relation to curriculum:	Elective Course				
Teaching methods	Lecture, classroom discussion, project-based learning.				
Workload (incl. contact hours, self-study hours)	The total workload is 232 hours per semester, which consists of 50 minutes lectures per week, 120 minutes of structured activities per week, and 120 minutes of individual study per week, in total is 16 weeks per semester, including mid and final exams.				
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 <i>R</i> .				
Module objectives/intended learning outcomes:	After completing this course, the students have ability to: CO 1. analyze the theoretical aspect of business analytics, related to the doctoral research being studied CO2. use software for doing business analytics related to the doctoral research being studied CO3. analyze some extended business analytics 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) Final Examination (portfolio/essay/oral presentation) 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:	 Minelli, M, Chambers, M.dan Dhiraj, A. 2013, Big Data, Big Analytics: Emerging Business Intelligence and Analytic Trends for Today's Businesses, Wiley CIO Series Ledolter, J., 2013, Data Mining and Business Analytics with R, Wiley, John & Sons, New York Recent publication on business analytics 				

Mapping of The COs and PLOs

	PLO – 1	PLO – 2	PLO – 3	PLO – 4	PLO – 5	PLO -6
	S3 Mat	S3 Mat				
CO 1	V	V	V		V	
CO 2	V	V	V		V	
CO 3	V	V	V		V	V

Last Modified Date : October 9, 2023



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MODULE HANDBOOK

Module name:	Topics in the computational of Statistical Mathematics B				
Code, if applicable:	MMM 7507				
Subtitle, if applicable	Business Analytics				
Semester(s) in which the module is taught:	1 st or 2 nd semester				
Person responsible for the module:	Chair of Statistical Computing Research Group				
Language:	Bahasa Indonesia				
Relation to curriculum:	Elective Course				
Teaching methods	Lecture, classroom discussion, project-based learning.				
Workload (incl. contact hours, self-study hours)	The total workload is 232 hours per semester, which consists of 50 minutes lectures per week, 120 minutes of structured activities per week, and 120 minutes of individual study per week, in total is 16 weeks per semester, including mid and final exams.				
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 <i>R</i> .				
Module objectives/intended learning outcomes:	After completing this course, the students have ability to: CO 1. analyze the theoretical aspect of business analytics, related to the doctoral research being studied CO2. use software for doing business analytics related to the doctoral research being studied CO3. analyze some extended business analytics 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) Final Examination (portfolio/essay/oral presentation) Mid-Term Examination (portfolio/essay/presentation) 35% (portfolio/essay/presentation)				
	3 Class Activities: Presentation 30%				
	To pass the course, the minimum grade is B.				

Media employed:	Board, LCD Projector, Laptop/Computer				
Reading List:	 Minelli, M, Chambers, M.dan Dhiraj, A. 2013, Big Data, Big Analytics: Emerging Business Intelligence and Analytic Trends for Today's Businesses, Wiley CIO Series Ledolter, J., 2013, Data Mining and Business Analytics with R, Wiley, John & Sons, New York Recent publication on business analytics 				

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	S3 Mat	S3 Mat				
CO 1	V	V	V		V	
CO 2	V	V	V		V	
CO 3	V	V	V		V	V

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