

UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF MATHEMATICS EDUCATION

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Bachelor of Science in Mathematics

MODULE HANDBOOK

Categorical Data Analysis				
Undergraduate				
MAT6363				
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Kismiantini, S.Si., M.Si., Ph.D.				
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Bahasa Indonesia				
Elective Course				
Licetive Course				
150 minutes lectures and 180 minutes structured activities per				
week.				
WOOK.				
Total workload is 136 hours per semester which consists of				
150 minutes lectures, 180 minutes structured activities, and				
180 minutes self-study per week for 16 weeks.				
3				
Advanced Statistics (MAT6309)				
After taking this course the students have ability to:				
CO1. Demonstrate collaborative attitude and independence in				
carrying out individual tasks and group assignments				
CO2. Communicate original ideas in solving mathematical				
problem both writing and orally as a way of self-				
improvement for working and studying.				

	CO3. Explain the concept of categorical data analysis.							
	CO4. Able to estimate the linear models for categorical							
	response and interpret the result.							
	CO5. Able to analyze categorical data using suitable linear							
	models.							
	Data analysis for response variable with nominal scale and/or							
	ordinal scale, contingency table, inference on logistic							
Content:	regression model, multinomial regression, ordinal regression,							
	poisson regression. Model selection, evaluation, and its							
	application.							
Study/exam achievements:	CO1: Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitudeif they show it significantlycompared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of therequirements to pass the course. Students will pass from this course if at least have a good attitude. The final mark will be weight as follow: No CO Assessment Object Assessment Weight							
Forms of media:	Board, LCD Projector, Laptop/Computer							
Literature:	 Bilder, C.R. &Loughin, T.M. 2015. Analysis of categorical data with R. Boca Raton, FL: CRC Press. Agresti, A. 2019. An introduction to categorical data analysis, 3rd edition. Hoboken, NJ: John Wiley & Sons, Inc. Upton, G.J.G. 2017. Categorical data analysis by example. Hoboken, NJ: John Wiley & Sons, Inc. 							

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CO1		✓								
CO2				✓						
CO3					✓					
CO4							✓			
CO5									✓	