Module designation	*Categorical Data Analysis*
Semester(s) in which the module is taught	*6*
Person responsible for the module	*Kismiantini, S.Si., M.Si., Ph.D*
Language	*Bahasa Indonesia*
Relation to curriculum	*Elective course*
Teaching methods	*150 minutes lectures and 180 minutes structured activities per week.*
Workload (incl. contact hours, self-study hours)	*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.*
Credit points	*3*
Required and recommended prerequisites for joining the module	*MAT6326 - Introduction to Regression Analysis*
Module objectives/intended learning outcomes	*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 selfimprovement 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*
Content	*Data analysis for response variable with nominal scale and/or ordinal scale, contingency table, inference on logistic regression model, multinomial regression, ordinal regression, poisson regression. Model selection, evaluation, and its application*
Examination forms	*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.*

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<tr>
<td>Study and examination requirements</td>
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The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements 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:
<table>
<tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr>
<tr><td>1</td><td>CO1 CO2 CO3 CO4 CO5</td><td>a. Group Assignment
b. Quiz
c. Project
d. Mid
e. Final exam</td><td>Written</td><td>20%

15%
20%
20%
25%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
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<td>Reading list</td>
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1. Bilder, C.R. &Loughin, T.M. 2015. Analysis of categorical data with R. Boca Raton, FL: CRC Press.
2. Agresti, A. 2019. An introduction to categorical data analysis, 3rd edition. Hoboken, NJ: John Wiley & Sons, Inc.
3. Upton, G.J.G. 2017. Categorical data analysis by example. Hoboken, NJ: John Wiley & Sons, Inc.

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