UNIVERSITAS NEGERI YOGYAKARTA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION
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Module name:	Applied Regression Analysis
Module level, if applicable:	Undergraduate
Code:	MAT6327
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	6th
Module coordinator:	Rosita Kusumawati, M.Sc.
Lecturer(s):	Rosita Kusumawati, M.Sc. Dr. Dhoriva Urwatul Wutsqa, M.Si.
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective Course
Teaching format / class hours per week during the semester:	150 minutes lectures and 180 minutes structured activities per week.
Workload:	Total workload is 136 hours per semester which consists of 150 minutes lectures, 180 minutes structured activities, and 180 minutes individual study per week for 16 weeks.
Credit points:	3
Prerequisites course(s):	Probability Theory
Course 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 ideas in solving mathematical problems in writing or verbally CO3. Understand the concepts and methods in regression analytics.

<table>
<tr><td></td><td>CO4. Applying the concepts and methods in regression analysis as well as interpret the output from statistical software (eg. R).</td></tr>
<tr><td>Content:</td><td>This course discusses correlation and linear regression, regression with qualitative independent variables, polynomial regression, best regression selection, residual analysis and several other correlation analyzes and their application</td></tr>
<tr><td>Study / exam achievements:</td><td>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 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</td><td>a. Individual Assignment
b. Group Assignment
c. Quiz
d. Mid
e. Final exam</td><td>Written test</td><td>15%

10%
20%
25%
30%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
</table>
</td></tr>
<tr><td>Forms of media:</td><td>Board, LCD Projector, Laptop/Computer</td></tr>
<tr><td>Literature:</td><td>A. Kutner, M.H., Nachtscheim, C. J., Neter, J. & Li, W. 2005 . Applied Linear Statistical Models. New York: McGrawHill/ Irwin.
B. Myers, R.H. 1996. Classical and Modern Regression with Applications. Boston : PWS-KENT Publishing Company
C. Draper, N.R and Smith, H. 1992. Alih bahasa : Bambang Sumantri. Analisis Regresi Terapan. Jakarta : Gramedia</td></tr>
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PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1	✓											
CO2		✓										
CO3					✓							
CO4							✓					
CO5									✓			