UNIVERSITAS NEGERI YOGYAKARTA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION
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Bachelor of Science in Mathematics **MODULE HANDBOOK**

Module name:	Applied Regression Analysis
Module level,if applicable:	Undergraduate
Code:	MAT6327
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	5th
Module coordinator:	Rosita Kusumawati, M.Sc.
Lecturer(s):	1. Rosita Kusumawati, M.Sc. 2. Dr. Dhoriva Urwatul Wutsqa, M.Si.
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format / class hours perweekduring 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 self-study per week for 16 weeks.
Creditpoints:	3
Prerequisites course(s):	Advanced Statistics (MAT6209)
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

<table>
<tr><td></td><td>CO3. Understand the concepts and methods in regression analytics.
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>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:

<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>Formsof media:</td><td>Board, LCD Projector, Laptop/Computer</td></tr>
<tr><td>Literature:</td><td>1. Kutner, M.H., Nachtscheim, C. J., Neter, J. & Li, W. 2005 . Applied Linear Statistical Models. New York: McGrawHill/Irwin.
2. Myers, R.H. 1996. Classical and Modern Regression with Applications. Boston : PWS-KENT Publishing Company
3. 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
CO1	✓									
CO2		✓								
CO3					✓					
CO4							✓			
CO5									✓	