Module designation	*Introduction to Multivariate Statistics*
Semester(s) in which the module is taught	*6*
Person responsible for the module	*Dr. Dra. Mathilda Susanti M.Si.*
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	*Students know that/know how to/are able to* *CO1: Respecting the opinions of others without discrimination based on ethnicity,race, or religion.* *CO2: Communicating an understanding of multivariate statistics verbally and in writing* *CO3: Students can explain aspects of multivariate statistics* *CO 4: Students can explain mean vector inference.* *CO 5: Use mean vector inference, multivariate techniques, and their computations to solve real-world problems.* *CO 6: Use computer software packages such as SPSS to perform computations based on multivariate techniques.*
Content	*The Applied Multivariate Statistics Introduction course covers aspects of multivariate statistics, mean vector inference, and multivariate techniques and their computation using computer software packages such as SPSS.*
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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<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>CO 1</td><td>a. Presentation
b. Discussion</td><td>Observation</td><td>5%
10%</td></tr>
<tr><td>2</td><td>CO 2, CO 3, CO 4</td><td>a. Individual assignment
b. Group assignment
c. Quiz
d. Midterm
e. Final test</td><td>Written</td><td>10%
10%
20%
20%
25%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
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<tr>
<td>Reading list</td>
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1. Johnson and Winchern.2007. Applied Multivariate Statistical Analysis. Upper Saddle River, New Jersey : Pearson Prentice Hall

2. Rencher, A.C. 1998. Multivariate Statistical Inference and Applications. New York : John Wiley & Sons, Inc.

3. Kirk, R.E. 1995. Experimental Design: Procedures for the Behavioral Sciences. California: Brooks/Cole Publishing Company.
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