MODULE HANDBOOK

Module Name	Basic Statistic
Module level	Bachelor
Abbreviation, if applicable	3074213039
Sub-heading, if applicable	-
Course included in the module, if applicable	-
Semester/term	4th/Second Year
Module coordinator(s)	Prof. Dr. Suyono, M.Pd.
Lecturer(s)	Dr. Achmad Lutfi, M.Pd.
Language	Indonesian
Classification within the Curriculum	Compulsory Course
Teaching format/class hours per week during the semester:	2 hours lecturers (50 min per hours)
Workload:	2 x 50 minutes lectures, 2 x 60 minutes structured activity, 2 x 60 minutes individual activity, 14 weeks per semester, 79,33 total hours per semester ~ 3.18 ECTS**
Credit points:	2 CU x 1,59 = 3,18 ECTS
Prerequisites course(s):	-
Targeted learning outcomes:	• Able to make decisions based on conclusions from research data analysis. • Able to choose and determine statistical methods to analyze data both theoretically and practically with the SPSS program • Mastering statistical methods: descriptive and inferential, parametric and non-parametric • Complete group and independent tasks according to the provisions.
Content:	• Understanding and concepts of Statistics. • Understanding statistics and descriptive statistics • Centering size • Understanding probability, discrete and continuous probability distribution: binomial, normal, student, x2, F • Point and interval estimates for population parameters (mean, proportion and variance) • Definition of hypothesis testing for parametric statistics.

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Hypothesis testing for the mean parameters, proportions in cases one and two populations.
Definition of hypothesis testing for parametric statistics.
Hypothesis testing for the mean parameters, proportions in cases one and two populations.
Hypothesis testing for the mean parameters, in the case of one and two populations.
Hypothesis testing for the average parameter, the proportion of two populations and more than two populations / 1-way ANOVA
Simple and multiple linear regression.
Correlation in linear regression.
Simple and multiple linear regression.
Correlation in linear regression.
Characteristics and terms of use of non-parametric statistics.
Test: sign, Wilcoxon, Kruskal Wallis.
Parameter hypothesis testing, regression, correlation, sign test, Wilcoxon test.

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<tr><td>Study / exam achievements:</td><td>
Students are considered to complete the course and pass if they obtain at least 40% of maximum final grade. The final grade (NA) is calculated based on the following ratio:
<table>
<tr><td>Assessment Components</td><td>Percentage of contribution</td></tr>
<tr><td>Participation</td><td>20%</td></tr>
<tr><td>Assignment</td><td>30%</td></tr>
<tr><td>Mid-semester test</td><td>20%</td></tr>
<tr><td>Final semester test</td><td>30%</td></tr>
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Grade Conversion of 0-100 scale into 0-4 scale is set as below:
<table>
<tr><td>Letter</td><td>Number</td><td>Grade interval</td></tr>
<tr><td>A</td><td>4.00</td><td>$85 \leq A \leq 100$</td></tr>
<tr><td>A-</td><td>3.75</td><td>$80 \leq A- < 85$</td></tr>
<tr><td>B+</td><td>3.50</td><td>$75 \leq B+ < 80$</td></tr>
<tr><td>B</td><td>3.00</td><td>$70 \leq B < 75$</td></tr>
<tr><td>B-</td><td>2.75</td><td>$65 \leq B- < 70$</td></tr>
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<tr><td>C+</td><td>2.50</td><td>60 ≤ C+ < 65</td></tr>
<tr><td>C</td><td>2.00</td><td>55 ≤ C < 60</td></tr>
<tr><td>D</td><td>1.00</td><td>40 ≤ D < 55</td></tr>
<tr><td>E</td><td>0.00</td><td>0 ≤ E < 40</td></tr>
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<tr><td>Media:</td><td>Computer, LCD, White board</td></tr>
<tr><td>Learning Methods:</td><td>Individuals assignment, group assignment, discussion, presentation, and project based learning</td></tr>
<tr><td>Literature:</td><td>1. Sudjana, 1996, Metoda Statistika, Bandung : Tarsito
2. Sugiyono, 2009, Statistika untuk Penelitian, Bandung: Alfabeta
3. Sugiyono, 2010, Statistik Nonparametris untuk Penelitian, Bandung. Alfabeta
4. Howell, D.C, 2010, Statistical Methods For Psychology, US : Wardsworth Learning</td></tr>
<tr><td rowspan="2">Notes:</td><td>*1 CU in learning process = three periods consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. The Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.</td></tr>
<tr><td>**1 CU = 1,59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/Un38/Hk/Ak/2019</td></tr>
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