# MODULE HANDBOOK

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| **Module Name:** | Statistic Methods |
| **Module Level:** | Sarjana (S-1) / Bachelor |
| **Abbreviation, if applicable:** | 8420203127 |
| **Sub-heading, if applicable:** | - |
| **Course included in the module, if applicable:** | - |
| **Semester/term:** | 3/ Second year |
| **Module Coordinator(s):** | Dr. Ismail, M.Pd. |
| **Lecturer(s):** | Dr. Ismail, M.Pd.<br>A'yunin Sofro, Ph.D<br>Ahmad Wachidul Kohar, M.Pd |
| **Language:** | Indonesia |
| **Classification within the curriculum:** | Compulsory course/ ~~elective studies~~ |
| **Teaching format/class hours per week during the semester** | Teaching format: lectures, tutorial assignment, and individual study. 3 x 170 minutes = 510 minutes = 8.5 hours lectures |
| **Workload:** | 15 weeks per semester consisting of:<br>➢ 2.5 hours lectures (3 x 50 minutes) per week,<br>➢ 3 hours tutorial assignments (3 x 60 minutes) per week,<br>➢ 3 hours individual study (3 x 60 minutes) per week,<br>Total workload : 14x3x170 minutes = 7,140 minutes = 4.76 ECTS* |
| **Credit Point:** | 3 |
| **Requirements:** | - |
| **Learning Goals:** | **Knowledge (KNO-1)**<br>CLO-1: Demonstrate concepts related to basic knowledge of statistics, descriptive statistics which include data presentation, center size, location size, center size, size and distribution, sample space, probability, binomial, normal and t-student probability distribution, sampling distribution, inferential statistics includes hypothesis test, Z test, T test, Anova, correlation, regression and Chi squared.<br>**Skill (SKI-2)** |

<table>
<tr><td></td><td>CLO-2: Understand the basic concepts of statistics, descriptive statistics, sampling distribution and inferential statistics and be able to present tasks well and be able to apply them in problem solving through a mathematical approach.</td></tr>
<tr><td>Content:</td><td>Basic knowledge of descriptive statistics covers presentation of data, the measure of central tendency, measure of dispersion, sample data, probability, the probability distribution of binomial, normal, and T-student, sampling distribution, inferential statistics involves hypothesis testing, Z test, T test, anova, correlation, regression, and Chi-square.</td></tr>
<tr><td>Study/exam achievements</td><td>
<ul>
<li>Students are considered competent and pass if the final score calculated from the score of midterm exam, assignments, participation, and final exam is at least 55 or C.</li>
<li>Final score is calculated as follows:</li>
<li>20% midterm exam + 30% assignments + 20% participation + 30% final exam</li>
<li>Final index is defined as follow:</li>
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<table>
<tr><th>Index</th><th>Converted Score</th><th>Score Range</th></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>
<tr><td>C+</td><td>2.50</td><td>$60 \leq C+ < 65$</td></tr>
<tr><td>C</td><td>2.00</td><td>$55 \leq C < 60$</td></tr>
<tr><td>D</td><td>1.00</td><td>$40 \leq D < 55$</td></tr>
<tr><td>E</td><td>0.00</td><td>$0 \leq E < 40$</td></tr>
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</td></tr>
<tr><td>Forms of Media</td><td>Slides and LCD projectors, whiteboard</td></tr>
<tr><td>Literature</td><td>

[1] Weiss, N. A. 2015. Elementary Statistics 9th Edition. Boston: Pearson.<br>
[2] Sudjana.2005 Edisi ke 6. Metoda Statistika. Bandung: Tarsito<br>
[3] Bluman, A.G. 2018. Elementary Statistics, A Step By Step Approach (10th Edition. New York: Mc Graw Hill Education<br>
[4] Freedman, D. 2007. Statistics. USA: Norton & Company.<br>
[5] Ismail, Fajri. 2018. Statistika Untuk Penelitian Pendidikan dan Ilmu-ilmu Sosial. Jakarta: Prenadamrdia Group.<br>
[6] Sundayana, R. 2014. Statistika Penelitian Pendidikan. Bandung: Alfabeta

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| | [7] Walpole, M. 2013, Probability and Statistics for Engineers and Scientist: Global Edition (9th Edition). Mumbai: Pearson |
| **Note** | *Total hours per 1 credit in 1 semester={(1 credit x 170 minutes x 14 weeks)/60 minutes}=39,67 hours.<br>Each ECTS equals with 25 hours therefore 1 credit in 1 semester equals 1,59 ECTS. |