<table>
<tr><td>Module designation</td><td>Statistics
Course code: 8420203233</td></tr>
<tr><td>Semester(s) in which the module is taught</td><td>Semester 3 (Second year)</td></tr>
<tr><td>Person responsible for the module</td><td>Coordinator: Dr. Rini Setianingsih, M.Kes.
Teaching staff: Dr. Ismail, M.Pd.; Dr. Yurizka Melia Sari, M.Pd.; Dr. Mukhtamilatus Sa'diyah, M.Pd.</td></tr>
<tr><td>Language</td><td>Indonesian</td></tr>
<tr><td>Relation to curriculum</td><td>Compulsory</td></tr>
<tr><td>Teaching methods</td><td>Lectures, tutorial assignments, and individual study
Media and tools: Slides, Whiteboard, Statistical Software (SPSS/Excel/R), LCD Projector.</td></tr>
<tr><td>Workload (incl. contact hours, self-study hours)</td><td>(Estimated) total workload: 3 CU × 170 minutes × 16 weeks = 8,160 minutes = 136.00 hours (≈ 4.77 ECTS)
Contact hours: lectures, 3 × 50 minutes per week × 16 weeks = 40.00 hours (class hours per week: 510 minutes = 8.50 hours, including structured activities)
Private study including examination preparation: structured assignments, 3 × 60 minutes per week × 16 weeks = 48.00 hours; independent study, 3 × 60 minutes per week × 16 weeks = 48.00 hours (total 96.00 hours)</td></tr>
<tr><td>Credit points</td><td>3 CU (4.77 ECTS)
1 CU = 170 minutes per week × 16 weeks = 45.3 hours; 1 ECTS = 28.48 hours (144 CU = 229 ECTS), so 1 CU = 1.59 ECTS (UNESA Rector's Decree No. 736/HK/KM/2023).</td></tr>
<tr><td>Required and recommended prerequisites for joining the module</td><td>None</td></tr>
<tr><td>Module objectives/intended learning outcomes</td><td>Programme learning outcomes (PLO) addressed:
PLO-5: Apply the basic principles of mathematics to solve simple mathematical problems.
PLO-6: Demonstrate mathematical knowledge and insight.</td></tr>
<tr><td>Content</td><td>This course discusses the fundamental principles of statistics required for mathematical problem solving and education, aiming to apply statistical concepts in analyzing data and making valid decisions focusing on descriptive statistics (central tendency, dispersion, and data visualization), probability distributions, and inferential statistics (hypothesis testing) through project-based learning assignments carried out with a critical and analytical attitude, in accordance with the demands of real-world data application.</td></tr>
<tr><td>Examination forms</td><td>Final score is calculated from the weekly assessment scheme below (CLO/PLO addressed and weight of each assessment):
<table>
<tr><th>Week</th><th>CLO</th><th>PLO</th><th>Weight (%)</th></tr>
<tr><td>1</td><td>CLO-1</td><td>PLO-5</td><td>5</td></tr>
<tr><td>2</td><td>CLO-1</td><td>PLO-5</td><td>5</td></tr>
<tr><td>3</td><td>CLO-1</td><td>PLO-5</td><td>5</td></tr>
<tr><td>4</td><td>CLO-2</td><td>PLO-5</td><td>5</td></tr>
<tr><td>5</td><td>CLO-2</td><td>PLO-5</td><td>5</td></tr>
</table></td></tr>
</table>

	6	CLO-2	PLO-5	5
	7	CLO-2	PLO-5	5
	8	CLO-2	PLO-5	20
	9	CLO-3	PLO-6	5
	10	CLO-3	PLO-6	5
	11	CLO-3	PLO-6	5
	12	CLO-4	PLO-6	5
	13	CLO-5	PLO-6	5
	14	CLO-5	PLO-6	5
	15	CLO-5	PLO-6	5
	16	CLO-5	PLO-6	10

Study and examination requirements

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.

Final index (grade conversion):

Index	Converted score	Score range (A = final score)
A	4.00	85 ≤ A ≤ 100
A-	3.75	80 ≤ A < 85
B+	3.50	75 ≤ A < 80
B	3.00	70 ≤ A < 75
B-	2.75	65 ≤ A < 70
C+	2.50	60 ≤ A < 65
C	2.00	55 ≤ A < 60
D	1.00	40 ≤ A < 55
E	0.00	0 ≤ A < 40

Reading list

1. Weiss, N. A. (2015). Introductory statistics (10th ed.). Pearson.
2. Walpole, R, E. (2002). Probability and Statistics : for engineers & scientist . USA: Pearson Education Inc
3. R Core Team (2020). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna