

## Module Handbook

Module Name:	Statistic Methods
Module Level:	Bachelor
Abbreviation, if applicable:	MAS104
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	Even (4 <sup>th</sup> semester)
Module coordinator(s):	MKWU Teaching Staff
Lecturer(s):	MKWU Teaching Staff
Language:	Bahasa Indonesia
Classification within the curriculum	Compulsory Course / <del>Elective Studies</del>
Teaching format / class hours per week during semester:	300 minutes/ week
Workload:	100 min lecture + 100 min structural assignment + 100 min self-assignment x 13 weeks; total 3900 min = 65 hours 65/25 = 2.6 ECTS
Credit point	2
Requirement	-
Learning goals/ competencies	<p><b>General competence (knowledge) :</b> Able to use the methods of basic statistic to analyze the data simply according to the related field correctly</p> <p><b>Specific competence:</b></p> <ol style="list-style-type: none"> <li>1. Able to understand the sampling distribution</li> <li>2. Able to understand parameter estimation</li> <li>3. Able to understand hypothesis testing</li> <li>4. Able to implement Chi-Square testing</li> <li>5. Able to implement variants analysis</li> <li>6. Able to implement correlation analysis and linear regression</li> <li>7. Able to implement non-parametric methods testing</li> <li>8. Able to implement non-parametric methods K-testing</li> </ol>
Content	Theory of sampling; parameter estimation; hypothesis testing; Chi-Square testing; variants analysis; correlation analysis and linear regression; non-parametric methods testing; non-parametric methods K-testing
Soft skill Attribute	Discipline and argumentation
Study/ exam achievements	<p>Students are considered to be competent and pass if at least get 40 of maximum mark of the final score. Final score: Paper project (10%), quiz (15%), mid exam (35%), final exam (35%), and soft skill (5%)</p> <p>Final index is defined as follow: A = 75-100 AB = 70-74,99 B = 65-69,99</p>

	BC = 60-64,99 C = 55-59,99 D = 40-54,99 E = 0-39,99
Media	LCD
Learning Method	Class and discussion
Literature	<ul style="list-style-type: none"> <li>a. Walpole, RE, 1995, <i>Pengantar Statistika, Edisi III</i>, Gramedia, Jakarta.</li> <li>b. Bhattacharya, GK., and Barret, L. R. and Johnson RA., 1977, <i>Statistical Concepts and Methods</i>, Wiley, New York.</li> <li>c. McClave, James T., and Terry Sincich, 2000, <i>Statistics, Eighth Edition</i>, Prentice Hall, New Jersey.</li> <li>d. Rosner, Bernard, 1995, <i>Fundamentals of Biostatistics, Fourth Edition</i>, Wadsworth Company, Balmont California.</li> </ul>
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