

## MODULE HANDBOOK

Module name	Biostatistics																
Module level, if applicable	Bachelor																
Code, if applicable	SST-707																
Subtitle, if applicable	-																
Courses, if applicable	Biostatistics																
Semester(s) in which the module is taught	7 <sup>th</sup>																
Person responsible for the module	Chair of Lab Data Mining																
Lecturer	Rohmatul Fajriyah																
Language	Bahasa Indonesia																
Relation to curriculum	Optional course in the third year (7 <sup>th</sup> semester) Bachelor Degree																
Type of teaching, contact hours	150 minutes lectures and 180 minutes structured activities per week.																
Workload	Total workload is 130 hours per semester, which consists of 150 minutes lectures per week for 14 weeks, 180 minutes structured activities per week, 180 minutes individual study per week, in total is 16 weeks per semester, including mid exam and final exam.																
Credit points	3																
Requirements according to the examination regulations	-																
Recommended prerequisites	SST 204																
Module objectives/intended learning outcomes	Upon completion of the course, students are able to: CO1: solve the simple problems with statistical methods CO2: transfer the statistical methods knowledge on to solving the problems CO2: create the simple and realistic statistical problem under lecturer's supervision CO2: use statistical software to analyze the data																
Content	This course is an introduction to statistical methods used in biological and medical research. Elementary probability theory, basic concepts of statistical inference, regression and correlation methods, analysis of variance, and study design are covered. Emphasis on applications to medical problems and how to apply the methods/concepts using the R statistical programming language. We will additionally cover data visualization and presentation, again using R.																
Study and examination requirements and forms of examination	<table><tr><td colspan="4">The final mark will be weighted as follows:</td></tr><tr><td>No</td><td>Assessment components</td><td>Assessment types</td><td>Weight (percentage)</td></tr><tr><td>1</td><td>CO 1</td><td>Midterm exam, homework</td><td>40%</td></tr><tr><td>2</td><td>CO 2</td><td>Final term exam, homework/project</td><td>60%</td></tr></table>	The final mark will be weighted as follows:				No	Assessment components	Assessment types	Weight (percentage)	1	CO 1	Midterm exam, homework	40%	2	CO 2	Final term exam, homework/project	60%
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1	CO 1	Midterm exam, homework	40%														
2	CO 2	Final term exam, homework/project	60%														
Media employed	White-board, Laptop, LCD Projector																
Reading list	<ol style="list-style-type: none"><li>1. <i>Rosner, Bernard</i> Fundamentals of biostatistics, 6. ed.: Belmont, Calif.: Thomson/Brooks/Cole, cop. 2006 - xx, 868 p. ISBN:0534418201 LIBRIS-ID:9942420</li><li>2. Analysis of Biological Data M.C. Whitlock and D. Schluter</li><li>3. Triola and Triola, Biostatistics for the Biological and Health Sciences. ISBN: 9780321194367</li></ol>																

