



THE MODULE HANDBOOK
FACULTY OF BIOLOGY
MASTER PROGRAMME

BIOSTATISTICS

Module code	BIO-60013
Module level	1 st year of Master Program in Biology
Abbreviation, if applicable	-
Courses related	-
Semester	Odd, Even
Course coordinator(s)	Dr. Suharyanto, MS., MSc.
Lecture(s)	1. Dr. Suharyanto, MS., MSc. 2. Dr. R.C.Hidayat, MS
Language	Bahasa Indonesia and English
Classification within the Curriculum	Compulsory Courses
Teaching format/class hours per week during the semester	This course is organized into one class and planned to have 14 teaching weeks and 2 weeks of examination.
Workload	Estimated working hour: 7.0 hours/week.
Credit	2-0 credits
Requirements	-
Course Learning Outcome	1. Able to master basic concepts of biostatistics in planning and analyzing experiments. 2. Able to analyze and solve problems both in laboratories and fields as well to evaluate and integrate information from various sources.



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	3. Able to apply concepts of statistics conventionally or by software, and use scientific references (written or electronic) for experimental purposes.
Syllabus	Biostatistics is a compulsory subject learning about statistical aspects in biological experiments. Science and Experiment, General patterns in researching, One-factor Experiment, Factorial Experiment, Split and Strip plot Design; Trend comparison, Linear regression: simple and multiple, Chi-square test
Study/exam achievements	a. Midterm: 35% b. Final examination: 40% c. Assignments: 15% d. Quizzes : 10%
Forms of media	White board, notebook, LCD
Reference	<ol style="list-style-type: none">1. Campbell, N.A., Reece, J.B., Urry, L.A., Cain, M.L., Wasserman, S.A., Minorsky, P.V., Jackson, R.B.. 2008. Biology. 8th ed., Pearson Benjamin Cummings, San Francisco.2. Gomez and Gomez, 2010, Prosedur statistik untuk penelitian pertanian, UI PRESS, Jakarta.3. Johnson, M.D. 2010. Human Biology 6th edition. Pearson Benjamin Cummings, San Francisco.4. Montgomery, D. C., 2015. Design and Analysis of Experiments, John wiley & sons, Inc.5. Taylor, M. 2008. Student study guide for Biology 8th ed., Pearson Benjamin Cummings, San Fransisco.