Universitas Brawijaya **Faculty of Mathematics and Natural Sciences** **Department of Statistics / Bachelor Statistics Study Programme**	

Module Handbook

Module Name:	Capita Selecta of Life Sciences (MAS62223)
Module Level:	Bachelor
Abbreviation, if applicable:	-
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	6th / Third Year
Module Coordinator(s):	Dr. Suci Astutik, S.Si., M.Si.
Lecturer(s):	Prof. Dr. Ir. Loekito A. S. , M.Agr.
Language:	Indonesian
Classification within the curriculum:	Elective course
Teaching format / class per week during semester:	2×50 minutes
Workload:	1.67 hours lectures, 2 hours structural activities, 2 hours individual studies, 16 weeks per semester, and total 90.67 hours per semester 3 ECTS
Credit Points:	2
Requirements:	≥ 100 credit points
Learning goals / competencies:	**General Competence (Knowledge):**

	ILO1	The students are able to master basic scientific concepts and statistical analysis methods applied on computing, social science, humanities, economics, industry and life science.
	ILO3	The students are able to manage, analyze, and complete the real case using statistical method on computing, social humanities, economics, industry and life science that helped by software, then present and communicate the results.
	ILO5	The students are able to apply logical, critical, systematic, and innovative thinking independently when applied to science and technology that contain humanities values, based on scientific principles, procedures and ethics with excellent and measurable results.
	ILO6	The students are able to take appropriate decisions to solve the problems expertly, based on the information and data analysis.

		ILO7	The students are able to improve and develop a job networks, then supervise and evaluate the team's performance they lead.
		ILO8	The students are able to apply and internalize the spirit of independence, struggle, entrepreneurship, based on values, norms, and academic ethics of Pancasila in all aspects of life.
		Specific Competence:	
		M1	Students are able to solve statistical problems in agriculture both theoretically and empirically and communicate the results of the analysis verbally and in writing (ILO1, ILO3, ILO5, ILO6, ILO7, ILO8)
		M2	Students are able to solve statistical problems in the field of animal husbandry both theoretically and empirically and communicate the results of the analysis verbally and in writing (ILO1, ILO3, ILO5, ILO6, ILO7, ILO8)
		M3	Students are able to solve statistical problems in fisheries both theoretically and empirically and communicate the results of the analysis verbally and in writing (ILO1, ILO3, ILO5, ILO6, ILO7, ILO8)
		M4	Students are able to solve statistical problems in public health both theoretically and empirically and communicate the results of the analysis verbally and in writing (ILO1, ILO3, ILO5, ILO6, ILO7, ILO8)
		M5	Students are able to solve statistical problems in medicine both theoretically and empirically and communicate the results of the analysis verbally and in writing (ILO1, ILO3, ILO5, ILO6, ILO7, ILO8)
Contents:		1	Statistics in Agriculture
		2	Statistics in Animal Husbandry
		3	Statistics in Fisheries
		4	Statistics in Public Health
		5	Statistics in Medicine
Soft skill attribute:		Responsible, independently, and discipline	
Study/exam achievement:		Final score (NA) is calculated as follow: 20% Assignments, 10% Quizzes, 10% Attitude, 30% Midterm Test, 30% Final Exam Final index is defined as follow: A : > 80 - 100 B+ : > 75 - 80 B : > 69 - 75	

	C+ : > 60 - 69 C : > 55 - 60 D+ : > 50 - 55 D : > 44 - 50 E : 0 - 44
Forms of media:	Laptop, LCD projector, whiteboard, software (MS. Excel, R, Minitab, SPSS)
Learning methods:	Lecture, assessments, and discussion
Literature:	**Main:**
	1. Gomez, K.A. and Gomez, A.A. 1976. Statistical Procedures for Agricultural Research with Emphasis on Rice. IRRI, LosBanos, Laguna, Philippines.
	2. Steel, R.G.D. and Torrie, J.H. 1980. Principles and Procedures of Statistics. Second Ed. McGraw-Hill Kogakusha Ltd., Tokyo.
	Support:
Notes:	