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

Module Handbook

Module Name:	Statistical Consulting (MAS61117)
Module Level:	Bachelor
Abbreviation, if applicable:	-
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	7th / Fourth Year
Module Coordinator(s):	Dr. Ir. Solimun, MS
Lecturer(s):	Dr. Ir. Solimun, MS
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:	Credit Points > 100
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.
	ILO2	The students are able to arrange and/or choose an efficient data collection/ data generated design that applies in surveys, experiments or simulations.
	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.
	ILO4	The students are able to master at least two statistical softwares, including based on open source.
	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 know about the principles as a consultant (ILO1, ILO3, ILO4, ILO5)
	M2	Students know about communication techniques as a consultant (ILO1, ILO3, ILO4, ILO5)
	M3	Students know the marketing techniques of statistical consulting services (ILO1, ILO3, ILO4, ILO5)
	M4	Students know about the concept of statistical consultant service quality (ILO1, ILO3, ILO4, ILO5)
	M5	Students are able to apply knowledge about consultants by practicing to become statistical consultants (ILO1, ILO2, ILO3, ILO4, ILO5, ILO6, ILO7, ILO8)
Contents:	1	Explanation about the concepts of statistical consulting
	2	Communication techniques overview (general competence)
	3	Marketing overview in statistical consulting (general competence)
	4	Service quality overview in statistical consulting (general competence)
	5	Research methodology application overview(general competence)
	6	Statistical data analysis applications overview (general competence)
	7	Practicing as statistical consultant.
Soft skill attribute:	Responsible, independently, and discipline	
Study/exam achievement:	Final score (NA) is calculated as follow: 5% Attitude, 10% Assignments, 12.5% Quizzes, 10% Paper Assignment, 5% Individual Presentation, 7.5% Group Presentation, 25%	

	Midterm Exam, 25% 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:	-
Learning methods:	Lecture and assessment
Literature:	**Main:**
	1. Cabrera, J., dan Andrew M. 2002. Statistical Consulting. New York: Springer.
	2. Solimun, Armanu , dan A.A.R Fernandes. 2018. Metode Penelitian Kuantitatif Perspektif Sistem. Malang: UB Press
	3. Astuti, S., Solimun dan Darmanto. 2018. Analisis Multivariat: Teori dan Aplikasinya dengan SAS. Malang: UB Press
	Support:
	1. Solimun. 2002. Multivariate Analysis: Structural Equation Modeling (SEM). Malang: Penerbit Universitas Negeri Malang
	2. Solimun. 2010. Analisis Multivariat Pemodelan Struktural: Metode Partial Least Square-PLS. Malang: CV Citra Malang
	3. Solimun, A.A.R. Fernandes, dan Nurjannah. 2017. Metode Statistika Multivariat-Pemodelan Struktural (SEM) Pendekatan WarpPLS. Malang: UB Press
Notes:	