



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

Module Handbook

Module Name:	Social Statistics (MAS61327)	
Module Level:	Bachelor	
Abbreviation, if applicable:	-	
Sub-heading, if applicable:	-	
Courses included in the module, if applicable:	-	
Semester/term:	5th / Third Year	
Module Coordinator(s):	Achmad Efendi, S.Si., M.Sc., PhD	
Lecturer(s):	Achmad Efendi, S.Si., M.Sc., PhD	
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:	Nonparametric statistics (MAS61122), Categorical Data Analysis (MAS62221)	
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.
	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.
	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 formulate social problems and examine it. (ILO2, ILO1, ILO5)
	M2	Students are able to apply statistic competency for social experiment. (ILO2, ILO3, ILO1, ILO5)
	M3	Students have competency as consultant in social research field. (ILO2, ILO3, ILO1, ILO8)
Contents:	1	Basic concepts of social research, types, design, and social research processes.
	2	Definition and construction of variables
	3	Research instruments
	4	Survey and FGD
	5	Validity and reliability
	6	Proposal and questionnaire
	7	Data collection
	8	Analysis of social research data
	9	Sampling
	10	Correlation and linear regression
	11	Logistic and Poisson regression
	12	Path analysis, factor analysis, and principal component analysis
	13	Presentation 1
	14	Presentation 2
Soft skill attribute:	Responsible, independently, and discipline	
Study/exam achievement:	<p>Final score (NA) is calculated as follow: 10% Post Test, 10% Assignments, 20% Quizzes, 30% Midterm Exam, 30% Final Exam</p> <p>Final index is defined as follow:</p> <p>A : > 80 - 100</p> <p>B+ : > 75 - 80</p> <p>B : > 69 - 75</p> <p>C+ : > 60 - 69</p> <p>C : > 55 - 60</p>	

	D+ : > 50 - 55 D : > 44 - 50 E : 0 - 44
Forms of media:	Software (R, SPSS, Minitab, AMOS)
Learning methods:	Lecture and assessments
Literature:	Main:
	1. Levin, Jack and Fox, James A. 2007. Elementary Statistics in Social Research: The Essential, Second Edition. Pearson Education Inc., New York, USA
	2. Healey, Joseph F. 2013. The Essential of Statistics: A Tool for Social Research, Third Edition. Wadsworth CENGAGE Learning, Belmont, USA
	Support:
	Lecture Module Lecture Presentation Slides
Notes:	