UNESA

MINISTRY OF EDUCATION, CULTURE, RESEARCH, AND TECHNOLOGY

UNIVERSITAS NEGERI SURABAYA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES

Ketintang Campus, D-1 Building, Surabaya 60231 +6231-8296427 Website: www.fmipa.unesa.ac.id, email: info_fmipa@unesa.ac.id

Master Program of Science Education

Module Handbook

Module Name :	Statistika/ Statistics			
Module level :	Master Program of Science Education			
Course Code :	8410102169			
Abbreviation, if applicable:	-			
Courses included in the module,				
if applicable:	Not Applicable			
Semester/Term	1 st /First Year			
Module coordinator(s)	Prof. Dr. Erman, M.Pd.			
Lecturer(s):	Prof. Dr. Erman, M.Pd.			
	Prof. Dr. Suyono, M.Pd.			
	Prof Nadi Suprapto, PhD.			
	Prof. Dr. Ahmad Lutfi, M.Pd.			
Language:	Indonesian Language			
Classification within the curriculum:	Compulsory/ Elective			
Teaching format/class hours per week during the semester:	2 contact hours of lectures (Indonesia credit semester or CU*)			
Workload :	2 x 50 minutes lectures, 2 x 90 minutes structured activity,			
	2 x 100 minutes individual activity, 14 weeks per semester,			
	112 total hours per semester ~ 4.48 ECTS**			
Credit Point:	2 CU (4.48 ECTS)			
Requirements:				
	Skill (SKI-1) CLO-1 Able to developing statistical techniques to process data.			
	Skill (SKI-2)			
Learning goals/competencies:	CLO-2			
	Able to solve data in the context of solving science education problems.			
Content	This course aims to enable students to apply appropriate statistical techniques to process data in addition to in-depth discussion and conceptual development associated with quantitative and qualitative approaches that are focused on various statistical techniques that are widely used in science education research, both qualitative and qualitative research. quantitative. Through this course, students are expected to have scientific thinking suggestions to map and analyze science education problems to find the right solution. Lectures are			

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	conducted in lectures, questions and answers, discussions, and chapter report with presentation of results.					
Attribute Soft skill:	Scientific report, public speaking, and team work					
Study/exam achievements:	Students are considered to be competent and pass if at least get 70.					
	Final score is calculated as follows: 20% Participation + 30%					
	Assignment + 20% Middle Exam (UTS) + 30% Final Exam (UAS)					
	Final index is defined as follow:					
				1		
	Index	Converted Score	Score Range			
	A	4.00	85 ≤ A ≤ 100			
	A-	3.75	80 ≤ A- < 85			
	B+	3.50	75 ≤ B+ < 80			
	В	3.00	70 ≤ B < 75			
	B-	2.75	65 ≤ B- < 70			
	C+	2.50	60 ≤ C+ < 65			
	C	2.00	55 ≤ C < 60			
	D	1.00	40 ≤ D < 55			
	E	0.00	$0 \le E < 40$			
Learning Methods :	Case Method, Discussion, and Article Review					
Form of Media:	Power Point slides, e-book file, and multimedia.					
	1. Kaiser, M. S. (2005). Advance statistical methods lowa. State					
Literature (primary	University: Departement of Statistics.					
references):	2. Coletti, P. (2010). Advanced statistis. Free University of					
	Bolzano Bozen.					
	3. Shalizi, C.R. (2013). Advance data analiysis. Cosma Rohilla					
	Spring 2013.					
	4. Qian, J. (2012). An introduction to advanced probability and statistics. China, <u>junhuiq@gmail.com</u>					
	5. Imam Ghozali . (2019). Buku Statistik NON Parametrik. Undip					
	6. Ardianto dan Kadir. 2021. Buku Aplikasi Statistik dalam					
	Penelitian					
Notes:	*1 CU in learning process = three periods consist of: (a) scheduled					
	instruction in a classroom (50 minutes); (b) structured activity					
	(90 minutes); and (c) individual activity (100 minutes) according					
	to according to Rector Decree of Universitas					
	Negeri Surabaya No. 598/UN38/HK/AK/2020					
	**1 CU = 2.24 ECTS according to Rector Decree of Universitas					
	Negeri Surabaya No. 598/UN38/HK/AK/2020					
	*Total ECTS = (total hours workload/ 60 min) / 25 hours					
	Each ECTS is equals with 25 hours					
Last Amendment	5 January 2023					