Bachelor Program in Mathematics Faculty Mathematics and Natural Sciences HASANUDDIN UNIVERSITY



Module Description of Mathematical Statistics

Module Name	:	Mathematical Statistics		
Module Level		Bachelor		
Code, if applicable		23H01121303		
Subtitle, if applicable		_		
Courses, if applicable		Mathematical statistics		
Semester(s) in which the		iviatrierriatical statistics		
module is taught	•	4 (Fourth Semester)		
Module coordinator(s)	:	Dr. Firman, S.Si, M.Si.		
Lecturer(s)	:	Dr. Firman, S.Si, M.Si, Jusmawati Massalesse, M.Si		
Language	:	Bahasa (Indonesian language)		
Relation to curriculum	:	Compulsory course in the fourth semester for Bachelor degree in Mathematics		
Type of teaching/teaching method	:	Lecturing, Small Group Discussion, Cooperative Learning, Self- Directed Learning		
Contact hours	:	150 minutes lectures per week, 180 minutes structured activities per week, and 180 minutes independent study per week		
Workload	:	Total workload is 135 hours per semester which consists of 40 hours per semester for Learning and Teaching, 47.5 hours per semester for Self-Study, and 47.5 hours per semester for Structured Works		
Credit points	:	3 (4.8 ECTS)		
Requirements according	:	Students are required to attend at least 80% of the total		
to the examination		meetings which is recorded via the attendance menu at		
regulations		https://sikola-v2.unhas.ac.id/, complete all mandatory		
		assignments, and obtain permission from the lecturer to		
		participate in the written examination.		
Recommended	:	Probability Theory		
prerequisites				
Module	:	After the completion of this module, the student will be able		
objectives/intended		to:		
learning outcomes		CLO 1. understand the basic principles of inferential statistics		
		(estimation and hypothesis testing);		
		CLO 2. analyze mathematical problems in a logical, analytical		
		and systematically structured way.		
		CLO 3. demonstrate knowledge of estimation and testing for		
		large sample sizes.		
		The following is the mapping of the ILO and the CLO of this		
		course:		
		ILO 1 ILO 3 ILO 4 ILO 7		
		CLO 1 X X X X		
		CLO 3 X X		
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Content	:	fundame statistica with an can be us covers su data wit learn about methods their account	ental concepts of national inference and its overview of inference and its overview of inference and its of the decimation of the decimati	nathemation theoretic statistics about which are earn and confine pulation produced to the course delverse delverse the course delverse delver	oduces students to the cal statistics, focusing of all foundations. It begins ics, explaining how date populations. The court essential for summarization. Students will all dence intervals, including arameters and assessions based on statistic isions based on statistic in the court in the court is in the court in th	on ins ata rse ng so ng ng
Study and examination requirements	:	Study an Stude Stude Stude class Stude dead	d examination requents must attend 1 ents must switch or ents must inform the due to sickness, etents must submit	5 minutes ff all electrone ne lecturer c. all class	if they will not attend t assignments before t	
Exams and assessment formats	:	Reports to test Written materials	eport (55%), Writte measure analytical continuous under Exam assesses co s discussed during ents account for 10 des are determine	and writing of the sem	g skills. Quizzes are us of weekly content. T on and synthesis of ester. Altogether, the	ed he all se
			Percentage of Achievement 85 – 100 80 - <85 75 - < 80 70 - < 75 65 - < 70 60 - < 65 50 - < 60 40 - < 50 < 40	Grade	Conversion Value 4.00 3.75 3.5 3.0 2.75 2.5 2.00 1.00 0.00	
Reading list	:		V. Hogg dan Allonathical Statistics, F		g, 1995, Introduction n.	to

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		2. George Casella dan Roger L Berger, 2001. Statistical Inference, Duxbury & Thomas Learning
		3. Wakerly, D., Mendenhall III, W. Scheaffer, R., 2008. Mathematical Statistics with Application, Ed. 7th, Thomson, Canada.
Last revision date	:	February 5th, 2025