

MODULE HANDBOOK

Module Name	Statistika Terapan / Applied Statistic		
Module level, if applicable	Undergraduate		
Code, if applicable	02143243039		
Subtitle, if applicable	-		
Courses, if applicable	-		
Semester(s) in which the module is taught	4		
Person responsible for the module	Dwi Maryono, S.Si., M.Kom Nurchaya Pradana Taufik Prakisyta, S.Kom, M.Cs.		
Lecturer	Dwi Maryono, S.Si., M.Kom Nurchaya Pradana Taufik Prakisyta, S.Kom, M.Cs.		
Language	Indonesian and English		
Relation to curriculum	Undergraduate degree program, compulsory course in 4th semester		
Type of teaching, contact hours	Undergraduate degree program, < 40 students		
Workload	Lectures: 3 x 50 = 150 minutes (2 hours 30 minutes) per week Exercise and Assignments: 3 x 60 = 180 minutes (3 hours) per week Private study: 3 x 60 = 180 minutes (3 hours) per week		
Credit points	3 SKS		
Requirements according to the examination regulations	A student must have attended at least 75% of the lectures to sit in the exams		
Recommended Prerequisites			
Module objectives/intended learning outcomes	After completing this module, a student is expected to:		
	No	Course Learning Outcome	PLO
	1	Able to understand basic statistical concepts, data collection techniques, data presentation techniques, frequency distribution, basic statistical measures, sampling theory, confidence intervals, probability concepts, reliability and validity tests, assumption tests, hypothesis testing, correlation and regression tests in research in the field of education.	PLO-4
	2	Able to apply statistical knowledge to the case of research in the field of computers and education.	PLO-4

	3	Able to analyze problems in the field of computers and education that can be solved using statistical tests.	PLO-4												
Content	This course contains the basic concepts of statistics, as well as the application of descriptive and inferential statistics. Basic concepts and descriptive statistics include tables and graphs, measures of central symptoms, variation, and correlation and regression; while inferential statistics include probability, normal distribution, research instrument testing, assumption testing and hypothesis testing. understanding of statistics, data, population, samples and measurement scale • data collection and processing techniques • frequency distribution • measure of concentration and dispersion • confidence interval • simple correlation and regression test • prerequisite analysis test • test assumptions and hypotheses • use of statistical software/software														
Study and examination requirements and forms of Examination	Forms of examination: <table><tr><th>No</th><th>Course Learning Outcome</th><th>PLO</th></tr><tr><td>1</td><td>Able to understand basic statistical concepts, data collection techniques, data presentation techniques, frequency distribution, basic statistical measures, sampling theory, confidence intervals, probability concepts, reliability and validity tests, assumption tests, hypothesis testing, correlation and regression tests in research in the field of education.</td><td>Written Test (50%)</td></tr><tr><td>2</td><td>Able to apply statistical knowledge to the case of research in the field of computers and education.</td><td>Written Test (15%)</td></tr><tr><td>3</td><td>Able to analyze problems in the field of computers and education that can be solved using statistical tests.</td><td>Team Based Project (5%) Written Test (30%)</td></tr></table>			No	Course Learning Outcome	PLO	1	Able to understand basic statistical concepts, data collection techniques, data presentation techniques, frequency distribution, basic statistical measures, sampling theory, confidence intervals, probability concepts, reliability and validity tests, assumption tests, hypothesis testing, correlation and regression tests in research in the field of education.	Written Test (50%)	2	Able to apply statistical knowledge to the case of research in the field of computers and education.	Written Test (15%)	3	Able to analyze problems in the field of computers and education that can be solved using statistical tests.	Team Based Project (5%) Written Test (30%)
No	Course Learning Outcome	PLO													
1	Able to understand basic statistical concepts, data collection techniques, data presentation techniques, frequency distribution, basic statistical measures, sampling theory, confidence intervals, probability concepts, reliability and validity tests, assumption tests, hypothesis testing, correlation and regression tests in research in the field of education.	Written Test (50%)													
2	Able to apply statistical knowledge to the case of research in the field of computers and education.	Written Test (15%)													
3	Able to analyze problems in the field of computers and education that can be solved using statistical tests.	Team Based Project (5%) Written Test (30%)													
Media employed	LCD, Whiteboard, PowerPoint Slide Presentation, Practical Guidance Video, websites, etc.														
Reading list	1. Dr. Rusydi Ananda, M.Pd, Muhammad Fadhli, M.Pd. Editor:Syarbaini Saleh, S.Sos, M.Si. (2013) Statistik Pendidikan Teori Dan Praktik Dalam Pendidikan. CV. WIDYA PUSPITA 2. Howell, David C. (2010). Statistical Methods for Psychology (7th edition). Belmont: Wadsworth 3. Muhammad Ali Gunawan S.Pd., M.Pd. (2015) Statistik Penelitian Bidan Pendidikan, Psikologi dan Sosial.														

	4. Shavelson, Richard J. (2011). Statistical Reasoning for the Behavioral Sciences (11th edition). Massachussets: Allynand Bacon, Inc. 5. Prof. Dr. Sugiyono. (2010). Statistika untuk Penelitian. Bandung: Penerbit Alfabeta
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