



Module Handbook

Module Name :	<i>Metode Statistik</i> Statistics Method
Module level :	Bachelor degree/Undergraduate Program
Course Code :	4420103082
Abbreviation, if applicable:	-
Courses included in the module, if applicable:	Not Applicable
Semester/Term	2 nd / first year
Module coordinator(s)	A'yunin Sofro, Ph.D
Lecturer(s):	A'yunin Sofro, Ph.D
Language:	Bahasa Indonesia (Indonesian Language)
Classification within the curriculum:	Compulsory/ Elective
Teaching format/class hours per week during the semester:	3 contact hours of lectures (<i>sks</i> or credit unit*)
Workload :	3 x 50 minutes lectures, 3 x 60 minutes structured activity, and 3 x 60 minutes individual activity per week, 14 weeks per semester 119 total hours per semester ~ 4.77 ECTS**
Credit Unit:	3 credit unit (4.77 ECTS)
Requirements:	None



<p>Learning goals/competencies:</p>	<p>Knowledge (KNO-2)</p> <p>CLO-1: Be able to identify and demonstratate concepts related to basic knowledge of statistics, descriptive statistics which include data presentation, center size, location size, center size, size and distribution, sample space, probability, binomial, normal and t-student probability distribution, sampling distribution, inferential statistics includes hypothesis test, Z test, T test, Anova, correlation, regression and Chi squared.</p> <p>Skill (SKI-2)</p> <p>CLO-2: Be able to implement the basic concepts of statistics, descriptive statistics, sampling distribution and inferential statistics and be able to present tasks well and be able to apply them in problem solving through a mathematical approach.</p> <p>Skill (SKI-4)</p> <p>CLO-3: Be able to implement the basic concepts of statistics, descriptive statistics, sampling distribution and inferential statistics and be able to present tasks well and be able to apply them in problem solving through a computer approach.</p> <p>Competences (COM-1)</p> <p>CLO-4 : Be able to prove a statement decision using several methods</p> <p>Attitude and Social (SOC1)</p> <p>CLO-5 : Be able to work collaboratively and submit the assignments on time</p>
<p>Content</p>	<p>This course discusses about basic knowledge of descriptive statistics covers presentation of data, the measure of central tendency, measure of dispersion, sample data, probability, the probability distribution of binomial, normal, and T-student, sampling distribution, inferential statistics involves hypothesis testing, Z test, T test, anova, correlation, regression, and Chi-square. Lecture activities are carried out in a student center with discussions, observations, project assignments, and presentations.</p>

<p>Attribute Soft skill:</p>	<p>Active communication; Discipline; Collaboration; Responsibility; and Argumentation in class</p>
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Study/exam achievements:	The final grade (<i>NA</i>) is calculated based on the following ratio:		
	Assessment Components	Percentage of contribution	
	Participation	20%	
	Assignment	30%	
	Mid-semester test	20%	
	Final semester test	30%	
	Grade conversion of 0-100 scale into 0-4 scale is set as below:		
	Letter	Number	Grade Interval
	A	4,00	$85 \leq A \leq 100$
	A-	3,75	$80 \leq A- < 85$
	B+	3,50	$75 \leq B+ < 80$
	B	3,00	$70 \leq B < 75$
	B-	2,75	$65 \leq B- < 70$
	C+	2,50	$60 \leq C+ < 65$
	C	2,00	$55 \leq C < 60$
	D	1,00	$40 \leq D < 55$
	E	0,00	$0 \leq E < 40$
Learning Methods :	Student-centered approach; project-based learning; lecturer and discussion; and presentations (structured activities)		
Form of Media:	Power point slides; video; worksheets, and textbooks		



Literature (primary references):	<ol style="list-style-type: none">1. Weiss, N. A. 2015. Elementary Statistics 9th Edition. Boston: Pearson.2. Bluman, A.G. 2018. Elementary Statistics, A Step By Step Approach (10th Edition. New York: Mc Graw Hill Education3. Freedman, D. 2007. Statistics. USA: Norton & Company.4. Walpole, M. 2013, Probability and Statistics for Engineers and5. Scientist: Global Edition (9th Edition). Mumbai: Pearson
Notes:	<p>*1 credit unit or <i>sks</i> in learning process = three periods consist of: (a) scheduled instruction in a classroom or laboratory (50 minutes); (b) structured activity (60 minutes); and (c) individual activity (60 minutes) according to the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 44 Year 2015 jo. the Regulation of Indonesia Ministry of Research, Technology, and Higher Education No. 50 Year 2018.</p> <p>**1 credit unit or <i>sks</i> = 1.59 ECTS according to Rector Decree Of Universitas Negeri Surabaya No. 598/UN38/HK/AK/2019</p>