

Universitas Negeri Surabaya Faculty of Engineering, Cosmetology Education Undergraduate Study Program

Document Code

				SEM	1E:	STE	ΞR	LE	AR	III	٧G	ΡL	_ A I	1						
Courses				CODE			С	ourse	e Fam	nily		Cred	dit We	eight		SEI	MEST	ER	Con	npilation
Statistics				8321302004								T=2	P=0	ECT	S=3.18		4		July	17, 2024
AUTHOR	IZAT	ION		SP Develop	er					Co	ourse	Clus	ter C	oordii	nator	Stu	ıdy Pr	ogram	Coo	rdinator
				Dra. Dewi Lutfiati, M.Kes.								Ni	Nia Kusstianti, S.Pd., M.Pd.		., M.Pd.					
Learning model		Case Studies		I						-						1				
Program		PLO study prog	gram	that is charç	ged t	o the	cou	rse												
Learning Outcome		Program Object	tives	(PO)																
(PLO)		PO - 1																		
		PO - 2	conce	Students have the ability to analyze problems in learning statistics2. Students have knowledge of basic statistic concepts and apply the concepts in the learning process3. Students have the ability to analyze everyday probler solved with related statistical concepts 4. Students have a responsible attitude in developing statistic applications and concepts.								problems								
		PLO-PO Matrix																		
				P.O PO-1																
				PO-2																
		DO Madrice at the		-f -		4	(0.	ula Di	٥١											
		PO Matrix at th	e ena	oi each lea	rniné	j stac	je (Si	ub-PC	0)											
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			 	O-2																
			<u> </u>					l	l	l			l		1			I		
Short Course Descript	ion	Conduct studies the field of culina diagrams and gratesting. The asset UAS.	ary arts aphs. I	s. Learning st Measures of	atisti centr	cs cor ality, (nsists deviat	of: ur ion, p	ndersi opula	tandin ition n	g and nodels	l role s. Hy	of st pothe	atistics	s, prese sting, di	nting fferer	data	in the sting,	form and c	of tables, orrelation
Reference	ces	Main :																		
		Aplikasin	ya de	017. Metoda 3 ngan SPSS . : PWS Publisl	Ban			_			٠,									
		Supporters:																		
		1. Bahan A	jar untı	uk kalangan s	endir	i														
Supporti lecturer	ing	Dra. Dewi Lutfiati apt. M.A. Hanny			arm.,	M.Fa	ırm.													
Week-	eac stag			Eval	uatio	n					Help Learning, Learning methods, Student Assignments, [Estimated time]				r	Learn materi			essment	
(Sub-PO)															LIK	5.5161	.003]			

		Indicator	Criteria & Form	Offline (Online (online)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Able to understand the basic concepts of statistics, and the role of statistics in research	1.1. Master the basic concepts of statistics and statistics, the scope of statistics 2.2. Explain the data 3.3. Explain the role of statistics in research	Form of Assessment : Participatory Activities	Lectures, discussions		Material: 1. Explain the meaning of statistics and statistics, the scope of statistics 2. Give examples of the four data and measurement scales 3. Explain the role of statistics in research Literature: 1. Sudjana. 2017. Statistical Methods. Bandung: Tarsito 2. Sugiyono, Eri Wibowo. 2004. Statistics for Research and Applications with SPSS. Bandung: Alphabeta 3. Rosner, Bernard. 1986. Fundamentals of Biostatistics, second edition. Massachusetts: PWS Publishers	0%
2	Able to understand the concept of descriptive statistics	1.1. Explain the meaning of descriptive statistics 2.2. Explain the various types of data presentation 3.3. Discuss measures of central tendency 4.4. Discuss location size 5.5. Discuss measures of dispersion 6.6. Explain the population model 7.7. Discuss moment, skewness and kurtosis		Brainstorming, Discussion and reflection		Material: 1. explain the meaning of descriptive statistics 2. explain the various types of data presentation 3. State the measure of central tendency 4. Explain the measure of location References: 1. Sudjana. 2017. Statistical Methods. Bandung: Tarsito 2. Sugiyono, Eri Wibowo. 2004. Statistics for Research and Applications with SPSS. Bandung: Alphabeta 3. Rosner, Bernard. 1986. Fundamentals of Biostatistics, second edition. Massachusetts: PWS Publishers	0%

3	Able to understand the concept of normal distribution and apply normal curves	1.1. Explain the meaning of a normal curve 2.2. count cases using a normal curve 3.3. Apply the Normality Test	Lectures, discussions, presentations	Material: 1. explain the meaning of a normal curve 2. calculate cases using a normal curve References: 1. Sudjana. 2017. Statistical Methods. Bandung: Tarsito 2. Sugiyono, Eri Wibowo. 2004. Statistics for Research and Applications with SPSS. Bandung: Alphabeta 3. Rosner, Bernard. 1986. Fundamentals of Biostatistics, second edition. Massachusetts: PWS Publishers	0%
4	Able to understand the concepts of POPULATION, SAMPLE, and SAMPLING TECHNIQUES	1.1. discuss the meaning of population, sample and sampling techniques 2.2.discuss various sampling techniques 3.3. Give an example of a probability sampling technique 4.4. Create examples of non- probability sampling techniques	Lectures, discussions, presentations	Material: 1. Explain the meaning of population, sample and sampling technique 2. Differentiate types of sampling techniques 3. Give examples of probability sampling techniques 4. Give examples of non-probability sampling techniques 4. Give examples of non-probability sampling techniques References: 1. Sudjana. 2017. Statistical Methods. Bandung: Tarsito 2. Sugiyono, Eri Wibowo. 2004. Statistics for Research and Applications with SPSS. Bandung: Alphabeta 3. Rosner, Bernard. 1986. Fundamentals of Biostatistics, second edition. Massachusetts: PWS Publishers	0%

Discontinuo de la compania de la c			T		1	
one-sample descriptive hypothesis testing (normatametric) consumption one-sample descriptive hypothesis testing 2. Explain the binomial test 3. Explain and perform the chi Square test of two samples of	5	basic concepts of	basic concept of hypothesis testing 2. Explains three forms of hypothesis formulation, both descriptive, comparative and associative hypotheses 3. Explain the meaning of error rate in a hypothesis 4. Apply descriptive hypothesis	exercises and	Solving descriptive hypothesis testing questions References: 1. Sudjana. 2017. Statistical Methods. Bandung: Tarsito 2. Sugiyono, Eri Wibowo. 2004. Statistics for Research and Applications with SPSS. Bandung: Alphabeta 3. Rosner, Bernard. 1986. Fundamentals of Biostatistics, second edition. Massachusetts: PWS	0%
comparative hypothesis testing of two samples 2. Carrying out comparative hypothesis testing of two samples 2. Carrying out comparative hypothesis testing of two comparative hypothesis testing of two comparative hypothesis testing of two correlated samples 2. Carrying out comparative hypothesis testing of two correlated samples References: 1. Sudjana. 2017. Statistical Methods. Bandung: Tarsito 2. Sugiyono, Eri Wilbowo. 2004. Statistics for Research and Applications with SPSS. Bandung: Alphabeta 3. Rosner, Bernard. 1986. Fundamentals of Biostatistics, second edition. Massachusetts: PWS Publishers	6	one-sample descriptive hypothesis testing	meaning of non-parametric one-sample descriptive hypothesis testing 2.Explain the binomial test 3.Explain and perform the chi Square	exercises and	sample descriptive hypothesis test References: 1. Sudjana. 2017. Statistical Methods. Bandung: Tarsito 2. Sugiyono, Eri Wibowo. 2004. Statistics for Research and Applications with SPSS. Bandung: Alphabeta 3. Rosner, Bernard. 1986. Fundamentals of Biostatistics, second edition. Massachusetts: PWS	0%
8 UTS 0%	7	comparative hypothesis testing	comparative hypothesis testing for two samples 2.Carrying out comparative hypothesis testing of two correlated	questions and answers and	Material: comparative hypothesis between two samples Carrying out comparative hypothesis testing or two correlated samples References: 1. Sudjana. 2017. Statistical Methods. Bandung: Tarsito 2. Sugiyono, Eri Wibowo. 2004. Statistics for Research and Applications with SPSS. Bandung: Alphabeta 3. Rosner, Bernard. 1986. Fundamentals of Biostatistics, second edition. Massachusetts: PWS	0%
	8			UTS		0%

9	Understand comparative hypothesis testing for two samples and k samples	1.Understand comparative hypothesis testing of two samples 2.Understand k sample hypothesis testing		Material: carry out comparative hypothesis testing for two samples (t test) and can test hypothesis for k samples (Anava) References: 1. Sudjana. 2017. Statistical Methods. Bandung: Tarsito 2. Sugiyono, Eri Wibowo. 2004. Statistics for Research and Applications with SPSS. Bandung: Alphabeta 3. Rosner, Bernard. 1986. Fundamentals of Biostatistics, second edition. Massachusetts: PWS Publishers	0%
10	Explain and test associative hypotheses	1.Explain and carry out parametric associative hypothesis testing 2.Explain and conduct Moment Product correlation testing		Material: can carry out parametric associative hypothesis testing. Can carry out correlation testing MomentData Products Literature: 1. Sudjana. 2017. Statistical Methods. Bandung: Tarsito 2. Sugiyono, Eri Wibowo. 2004. Statistics for Research and Applications with SPSS. Bandung: Alphabeta 3. Rosner, Bernard. 1986. Fundamentals of Biostatistics, second edition. Massachusetts: PWS Publishers	0%

11	Understand non- parametric associative hypothesis testing	1.Explaining non-parametric associative statistics 2.Explain and determine the contingency		Material: Explaining non- parametric associative statistics Determining contingency coefficients Solving problems by	0%
		coefficient 3.Explain and determine spearman rank		applying spearman rank References: 1. Sudjana. 2017. Statistical Methods. Bandung: Tarsito 2. Sugiyono, Eri Wibowo. 2004. Statistics for Research and Applications with SPSS. Bandung: Alphabeta 3. Rosner, Bernard. 1986. Fundamentals of Biostatistics, second edition. Massachusetts: PWS Publishers	
12	Understand simple linear regression analysis	1.Explain the meaning of simple linear regression 2.Mention an example linear regression calculation 3.Carrying out regression linearity tests 4.Calculate the prices of a and b 5.Drawing up a regression equation 6.Create a regression line		Material: Calculating simple linear regression Carrying out a regression linearity test Calculating the prices of a and b Developing a regression equation Creating a regression line References: 1. Sudjana. 2017. Statistical Methods. Bandung: Tarsito 2. Sugiyono, Eri Wibowo. 2004. Statistics for Research and Applications with SPSS. Bandung: Alphabeta 3. Rosner, Bernard. 1986. Fundamentals of Biostatistics, second edition. Massachusetts: PWS Publishers	0%

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13	Explain multiple regression analysis	1.Explains multiple regression analysis for two predictors 2.Explains regression analysis of three predictors		Lectures and Practice Questions	Material: Carrying out multiple regression analysis of two predictors Carrying out regression analysis of three predictors References: 1. Sudjana. 2017. Statistical Methods. Bandung: Tarsito 2. Sugiyono, Eri Wibowo. 2004. Statistics for Research and Applications with SPSS. Bandung: Alphabeta 3. Rosner, Bernard. 1986. Fundamentals of Biostatistics, second edition. Massachusetts: PWS Publishers	0%
14	Explain the meaning of instrument validity testing	1.Explain the meaning of instrument validity testing 2.Explain construct validity testing 3.Explain content validity testing 4.Explain external validity testing		Questions and answers, practice questions	Material: Carrying out instrument validity testing Conducting construct validity testing Carrying out content validity testing Carrying out content validity testing Carrying out external validity testing Carrying out instrument reliability testing References: 1. Sudjana. 2017. Statistical Methods. Bandung: Tarsito 2. Sugiyono, Eri Wibowo. 2004. Statistics for Research and Applications with SPSS. Bandung: Alphabeta 3. Rosner, Bernard. 1986. Fundamentals of Biostatistics, second edition. Massachusetts: PWS Publishers	0%

15	Understanding k sample comparative hypothesis testing (Non Parametric)	Able to carry out comparative hypothesis testing k samples (Non Parametric)	LIAS	Material: comparative hypothesis testing k samples (Non Parametric), namely Kruskal Wallis Library: 1. Sudjana. 2017. Statistical Methods. Bandung: Tarsito 2. Sugiyono, Eri Wibowo. 2004. Statistics for Research and Applications with SPSS. Bandung: Alphabeta 3. Rosner, Bernard. 1986. Fundamentals of Biostatistics, second edition. Massachusetts: PWS Publishers	0%
16	UAS		UAS		0%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage	
		0%	

Notes

- Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study
 Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their
 study program obtained through the learning process.
- The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program) which
 are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and
 knowledge.
- 3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- 4. **Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- 5. **Indicators for assessing** ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- 6. **Assessment Criteria** are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- 7. Forms of assessment: test and non-test.
- 8. Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- 10. **Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.