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Universitas Negeri Surabaya Faculty of Economics and Business Islamic Economics Undergraduate Study Program

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Courses				CODE		Cou	irse Fa	mily	Cree	dit We	ight		SEM	ESTER	Compilation Date
Research	h Sta	tistics	tics 6020203066						T=3	P=0	ECTS	=4.77		5	July 18, 2024
AUTHORIZATION			SP Develo	oper			Cou	rse Clu	uster C	coordin	ator		ly Progr rdinator		
													Dr.		Ajib Ridlwan, M.SEI.
Learning model	I	Project Base	d Lea	arning											
Program Learning		PLO study p	orogr	am that is	charge	d to the c	ourse								
Outcom		Program Ob	ojecti	ves (PO)											
(PLO)		PLO-PO Ma	trix												
		P.O													
		PO Matrix a	t the	end of eac	ch learn	ing stage	(Sub-	PO)							
				P.O	2 3	4 5	6	7 8	We 9	ek 10	11	12	13	14	15 16
Course estimation			/pothe able t	esis testing;	Analysis propriate	of Variand decisions	e; Chi	Square	Test; r	ion-pa	rametri	c statis	stics. E	By studyi	ition; statistical ng this subject, rtise, based on
Referen	ces	Main :													
	 Supanga Algifari. 2 Atmaja, L Sugiyono 		ari. 20 ja, L.S	03. Statistik S 2009. St	: Induktif. atistika u	Penerbit U ntuk Bisnis	PP AM dan E	P YKP konomi	N: Yogy . Pener	bit An	di: Yogy	/akarta	a		
		Supporters:													
Support lecturer		Ach. Yasin, S Clarashinta C Rachma Indra	anggi	ih, S.E., CIF											
Week-	of e lear	al abilities each ming stage		Eva	duation			Help Learning, Learning methods, Student Assignments, [Estimated time]				ma	arning terials [erences	Assessment Weight (%)	
	(Su	b-PŎ)	In	dicator	Criteri	a & Form		fline(fline)	C	Online	(onlin	e)]	

1	Students understand the scope of inferential statistics material	Students are able to understand the scope of inferential statistics material	Criteria: Students can trace back (cognitive) memory regarding basic statistical concepts	Lectures and discussions 3 X 50		0%
2	Students are able to understand probability	1. Students are able to understand the meaning of Probability 2. Students are able to understand the probability value of an event 3. Students are able to calculate and determine probability values 4. Students are able to understand various types of probability		Lectures and discussions 3 X 50		0%
3	Students are able to understand sampling distribution	1. Students are able to understand the meaning of Sampling Distribution 2. Students are able to understand sample probability 3. Students are able to understand Sample Probability 4. Students are able to understand sampling distribution from the mean 5. Students are able to understand sampling distribution from the mean 5. Students are able to understand sampling distribution from proportion 6. Students are able to understand sampling distribution from from from from from from from differences and addition		Lectures and Discussions 3 X 50		0%

4	Students are able to understand and analyze statistical estimates	1. Students are able to understand and analyze the meaning and Basic Concepts of Estimation 2. Students are able to understand and analyze estimates of the Population Mean 3. Students are able to understand and analyze estimates of population percentages 4. Students are able to understand and analyze	Lectures and Discussions 3 X 50		0%
		and analyze estimates of Population Variance			

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5	Students are	1. Students		Lectures		0%
	able to study,	are able to		and		
	apply and	understand		Discussions		
	analyze hypothesis	the meaning of		3 X 50		
	testing	Hypothesis				
	testing	2. Students				
		are able to				
		understand				
		the				
		formulation				
		of				
		Hypothesis 3. Students				
		are able to				
		understand				
		the general				
		steps in				
		Hypothesis				
		Testing 4. Students are				
		able to				
		understand				
		and analyze				
		hypothesis				
		testing regarding the				
		regarding the				
		mean with a				
		large sample				
		(n≥30) 5. Students are				
		able to				
		understand				
		and				
		analyzing				
		hypothesis				
		tests regarding				
		means with				
		small				
		samples				
		(n<30) 6. Students are				
		Students are				
		able to				
		understand				
		and analyze hypothesis				
		tests				
		regarding				
		proportions				
		7. Students				
		are able to				
		understand				
		and analyze hypothesis				
		tests for				
		differences				
		between two				
		means with				
		large				
		samples (n1; n2 ≥30) 8.				
		Students				
		able to				
		understand				
		and analyze				
		the Two				
		Mean				
		Difference Hypothesis				
		test with a				
		Small				
		Sample (n1;				
		n2 < 30) 9.				
		Students are				
		able to				
		understand and analyze				
		the Two				
		Mean				
		Difference				
		Hypothesis				
		test for				
		Paired				
		Observations 10. Students				
		are able to				
		understand				
		and analyze				
		the Two				
		Proportion				
		Difference				
		Hypothesis				
		test				
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6	Students are	1. Students	Lectu	tures		0%
	able to study,	are able to	and			
	apply and	understand		cussions		
	analyze	the meaning	3 X 5			
	hypothesis	of Hypothosis				
	testing	Hypothesis 2. Students				
		are able to				
		understand				
		the				
		formulation				
		of				
		Hypothesis 3. Students				
		Students				
		are able to				
		understand				
		the general				
		steps in Hypothesis				
		Testing 4. Students are				
		able to				
		understand				
		and analyze				
		hypothesis				
		testing				
		regarding the				
		mean with a				
		large sample				
		(n≥30) 5. Students are				
		able to				
		understand				
		and				
		analyzing				
		hypothesis				
		tests				
		regarding				
		means with				
		small				
		samples (n<30) 6				
		(n<30) 6. Students are				
		able to				
		understand				
		and analyze				
		hypothesis				
		tests				
		regarding				
		proportions 7. Students				
		7. Students				
		are able to understand				
		and analyze				
		hypothesis				
		tests for				
		differences				
		between two				
		means with				
		large				
		samples (n1;				
		n2 ≥30) 8.				
		Students able to				
		understand				
		and analyze				
		the Two				
		Mean				
		Difference				
		Hypothesis				
		test with a				
		Small				
		Sample (n1; $n^2 < 30$) 9				
		n2 < 30) 9. Students are				
		able to				
		understand				
		and analyze				
		the Two				
		Mean				
		Difference				
		Hypothesis				
		test for				
		Paired Observations				
		10. Students				
		are able to				
		understand				
		and analyze				
		the Two				
		Proportion				
		Difference				
		Hypothesis				
		test				
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7	Students are	1. Students		ectures		0%
	able to study,	are able to understand		and		
	apply and analyze	the meaning		Discussions		
	hypothesis	of	3	3 X 50		
	testing	Hypothesis				
		2. Students				
		are able to				
		understand				
		the formulation				
		of				
		Hypothesis				
		Students				
		are able to				
		understand				
		the general				
		steps in Hypothesis				
		Testing 4.				
		Students are				
		able to				
		understand				
		and analyze				
		hypothesis testing				
		regarding the				
		mean with a				
		large sample				
		(n≥30) 5.				
		Students are				
		able to understand				
		and				
		analyzing				
		analyzing hypothesis				
		tests				
		regarding means with				
		small				
		samples				
		(n<30) 6. Students are				
		Students are				
		able to				
		understand and analyze				
		hypothesis				
		tests				
		regarding				
		proportions				
		7. Students are able to				
		understand				
		and analyze				
		hypothesis				
		tests for				
		differences				
		between two means with				
		large				
		samples (n1:				
		n2 ≥30) 8.				
		Students				
		able to understand				
		and analyze				
		the Two				
		Mean				
		Difference				
		Hypothesis test with a				
		Small				
		Sample (n1;				
		n2 < 30) 9.				
		Students are				
		able to				
		understand and analyze				
		the Two				
		Mean				
		Difference				
1		Hypothesis				
		test for Paired				
		Observations				
		10. Students				
		are able to				
		understand				
		and analyze				
		the Two Proportion				
		Difference				
		Hypothesis				
		test				
8	UTS					0%
8	UTS		2	3 X 50		0%

9	Students are able to understand and analyze Variance Analysis	1. Students are able to understand the meaning of Variance Analysis 2. Students are able to understand and analyze One Way Anova 3. Students are able to understand and analyze two way Anova	Lectures and Discussions 3 X 50		0%
10	Students are able to understand and analyze Variance Analysis	1. Students are able to understand the meaning of Variance Analysis 2. Students are able to understand and analyze One Way Anova 3. Students are able to understand and analyze two way Anova	Lectures and Discussions 3 X 50		0%
11	Students are able to understand and analyze the Chi Square Test	1. Students are able to understand the meaning of the Chi Square test. 2. Students are able to calculate, understand and analyze Chi Square values	Lectures and Discussions 3 X 50		0%
12	Students are able to understand and analyze the Chi Square Test	1. Students are able to understand the meaning of the Chi Square test. 2. Students are able to calculate, understand and analyze Chi Square values	Lectures and Discussions 3 X 50		0%
13	Students are able to understand and analyze other non-parametric statistics	1. Students are able to understand and analyze the Mann- Whitney test 2. Students are able to understand and analyze the Wilcoxon test 3. Students are able to understand and analyze the Friedman test 4. Students are able to understand and analyze the Kruskal- Wallis test	Lectures and Discussions 3 X 50		0%
14					0%

15	Students are able to understand and analyze other non-parametric statistics	1. Students are able to understand and analyze the Mann- Whitney test 2. Students are able to understand and analyze the Wilcoxon test 3. Students are able to understand and analyze the Friedman test 4. Students are able to understand and analyze the Kruskal- Wallis test	Lectures and Discussions 3 X 50		0%
16	UAS		3 X 50		0%

Evaluation Percentage Recap: Project Based Learning

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.
- 2. 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.
- 9. 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.