

Universitas Negeri Surabaya Faculty of Economics and Business Bachelor of Economics Study Program

Document Code

UNESA	*											
				SEN	MESTER	R LE	ARNIN	IG PLA	N			
Courses				CODE		Cours	e Family	Credit We	ight	SEMESTER	Compilation Date	
Research	Sta	tistics		87220030	69			T=3 P=0	ECTS=4.77	3	July 18, 2024	
AUTHORIZATION		SP Develo	pper		Cour	se Cluster C	coordinator	Study Prog Coordinato	ram r			
									Dr. Tony Seno Aji, S.E., M.E.			
Learning model		Case Studies	5									
Program		PLO study p	orogr	am that is	charged to	the cou	ırse					
Learning Outcome		Program Objectives (PO)										
(PLO)		PLO-PO Matrix										
		P.O										
		PO Matrix at the end of each learning stage (Sub-PO)										
			F	P.O				Week				
				1	2 3 4	5	6 7 8	9 10	11 12	13 14	15 16	
Short Course Descript	ion	estimation: hy	pothe	esis testing; o make apr	Analysis of Va propriate decis	ariance:	Chi Square	Test: non-pai	ametric statis	stics. Šv studv	ution; statistical ring this subject, ertise, based on	
Reference	ces	Main :										
		Indu dan	ktif.F Eko	Penerbit U Inomi. Po	JPP AMP Y	KPN:	Yogyakari	aAtmaja, I	L.S 2009.	Statistika	03. Staistik untuk Bisnis Penelitian.	
		Supporters:										
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Supporti lecturer	ing	Dr. Lucky Rad Choirul Nikma			/I.SI.						_	
Week-	of e lear	al abilities ach ning stage b-PO)			luation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References	Assessment Weight (%)		
	(Su		In	dicator	Criteria & F	-orm	Offline (offline)	Online	(online)]		
(1)		(2)		(3)	(4)		(5)		(6)	(7)	(8)	

	I		T	T	T	
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 memory (cognitive) 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 and 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 proportion 6. Students are able to understand sampling distribution from proportion 6. Students are able to understand sampling distribution 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 estimates of population percentages 4. Students are able to understand and analyze estimates of	Lectures and Discussions 3 X 50		0%

Students are able to study, apply and analyze hypothesis testing 1. Students are able to understand the meaning of Hypothesis 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 mean with a large sample (n≥30) 5. 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 testis regarding	0%
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regarding	
proportions	
7. Students	
are able to understand	
and analyze	
hypothesis	
tests for	
differences between two	
means with	
large large	
samples (n1;	
n2 ≥30) 8. Students	
able to	
understand	
and analyze	
the Two Mean	
Difference	
Hypothesis	
test with a	
Small Sample (p1)	
Sample (n1; n2 < 30) 9.	
Students are	
able to	
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and analyze the Two	
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test for Paired	
Observations	
10. Students	
are able to	
understand and analyze	
the Two	
Proportion Proportion	
Difference	
Hypothesis test	

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6	Students are	 Students 	Lectures		0%
	able to study,	are able to	and		
	apply and	understand	Discussion	s	
1	analyze hypothesis	the meaning of	3 X 50		
1	testing	Hypothesis			
1	County	Hypothesis 2. Students			
		are able to			
		understand			
		the			
		formulation			
		of			
		Hypothesis 3. Students			
		3. Students			
		are able to			
		understand the general			
		steps in			
		Hypothesis			
		Testing 4.			
		Students are			
		able to			
		understand			
		and analyze			
		hypothesis			
1		testing regarding the			
1		regarding the			
1		mean with a			
1		large sample (n≥30) 5.			
1		Students are			
1		able to			
1		understand			
1		and			
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1		tests			
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1		means with			
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1		(n<30) 6. Students are			
1		able to			
1		understand			
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1		hypothesis			
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1		regarding			
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		7. Students			
		are able to			
		understand			
		and analyze hypothesis			
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1		tests for differences			
1		between two			
1		means with			
1		large			
1		samples (n1;			
1		n2 ≥30) 8.			
1		Students			
1		able to			
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1		and analyze the Two			
1		Mean			
1		Difference			
1		Hypothesis			
		test with a			
1		Small			
1		Sample (n1;			
1		n2 < 30) 9.			
1		Students are			
		able to			
1		understand			
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		understand			
		and analyze			
1		the Two			
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		Difference Hypothesis			
		test			
		1031			
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		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. Students are able to understand and analyze hypothesis tests regarding means with small samples (n<30) 6. 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 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			
8 U	JTS	Proportion Difference Hypothesis test	3 X 50		0%

9	Students are	1. Students	T	Lectures		0%
J	able to understand and analyze Variance Analysis	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		and Discussions 3 X 50		090
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 Friedman test 4. Students are able to understand and analyze the Kruskal-Wallis test		Lectures and Discussions 3 X 50		0%
14						0%
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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: 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
- 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.