

## Universitas Negeri Surabaya Faculty of Economics and Business Economic Education Undergraduate Study Program

Document Code

## SEMESTER LEARNING PLAN

	Courses		CODE		0	Course	Family	nily		Credit Weight		5	SEMES	STER	Cor Dat	npilatio e	
STATISTICS		87203	02364		(	Compul	sory St	udy	Т	=2 P	=0 E	CTS=3.	18	3	3	July	18, 202
AUTHORIZAT	SP De	veloper			<del>r iografi</del>	<del>- Sunle</del>	Cour	se C	luster	Coor	dinator	5	Study	Progra	ım Co	ordinat	
		Albriar	ו Fiky Pr	akoso, S	S.Pd., I	M.Pd		Widya	astuti	i, S.Si	., M.Si	i		Dr. F	Retno N	/ustika	a Dewi,
Learning	Case Studies														<b>0.</b> r u.	, 101.1 C	
Program	PLO study program which is charged to the course																
Learning	Program Objectives (PO)																
(PLO)	PO - 1	Demonstrate	a respor	sible at	titude t	towards	work ir	ndepen	dentl	lv and	in aro	ups					
	PO - 2	Examining the	e basic c	oncepts	s of des	scriptive	and in	ferentia	u sta	tistics	g. o	apo					
	PO - 3	Utilizing techr	nology a	nd inforr	nation	in data	analvsi	s									
	PO - 4	Analyze and i	interpret	the resu	ults of c	data ana	lysis										
	PLO-PO Matrix	(															
	PO Matrix at th	PO-2 PO-2 PO-2 PO-2 PO-2 PO-2 PO-1 PO-2	1 2 3 4 h learni	ng sta	ge (Su	4 5	6	7	8	Week 9	10	11	12	13	14	15	16
		PO-3 PO-4															
Short Course Description References	Understanding b and Reliability, ( practice and pres Main :	PO-3 PO-4 asic concepts Correlation Ana sentation of stu	of statist alysis ar dents' w	ics, Intr nd Linea ritten wo	oductic ar Reg ork.	on to SF pression	2SS, Pa	arameti res are	ric Te e cai	ests, N rried (	lon-Pa out us	arametric ing lect	c Tes ure 1	sts, Pro methoo	pportior ds, field	n Testa d obso	s, Validit ervation:
Short Course Description References	Understanding b and Reliability, ( practice and pres Main : 1. Soesatv	PO-3 PO-4 asic concepts Correlation An sentation of stu	of statist alysis ar dents' w	ics, Intr id Linea ritten w	oductic ar Reg ork.	on to SF pression	2SS, Pa Lectu	arameti res are	ic Te e cai Sura	ests, N rried o	lon-Pa but us Unes:	arametrii ing lect	c Tes ure r	sts, Pro methoo Press	pportior ds, field	n Test: d obs	s, Validit ervations
Short Course Description References	Understanding b and Reliability, ( practice and pres Main : 1. Soesaty 2. Solimun, Berbasis Supporters:	PO-3 PO-4 asic concepts Correlation An sentation of stu	of statisi alysis ar idents' w an, R. Y. , & Hand 1 Rasch	ics, Intr ad Linea ritten w & Prak Joyo, S. Model .	oductic ar Reg ork. osso, A. 2017. Malang	. F. 202 Peranc g: Unive	2SS, Pa Lectu D. Stati angan Irrsitas I	arametu ires aro stik 1 . dan Pe 3rwaija	ric Te e cal Sura enguj ya	ests, N rried o ubaya: jian Ku	Jon-Pa but us Unesa	arametrii ing lect a Univer er serta	c Tes ure r sity F	ets, Promethoo	pportion ds, field	n Tests d obso	s, Validit ervation: jadi Ska

Support lecturer	ting	Muhammad Abdu Riza Yonisa Kurn Albrian Fiky Prak	ul Ghofur, S.E., M.Pd. iiawan, S.Pd., M.Pd. oso, S.Pd., M.Pd.						
Week-	Final abilities of each learning stage (Sub-PO)		Evalu	uation	Hel Learr Studen [Es	p Learning, ing methods, t Assignments, t <mark>imated time]</mark>	Learning materials [ References	Assessment Weight (%)	
			Indicator Criteria & Form		Offline ( Online ( online ) offline )		1		
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	
1	Describe the Concept of Statistics		<ol> <li>Able to describe the concept of Statistics</li> <li>Can describe statistical methods</li> <li>Can describe the types of Statistics</li> <li>Able to describe data summarization</li> <li>Able to describe data</li> </ol>	Criteria: Project Results Assessment Form of Assessment : Participatory Activities, Tests	Lectures and reading literature 4 X 50		Material: Concepts of Statistics Bibliography: Soesatyo, Y., Kurniawan, RY, & Prakoso, AF 2020. Statistics 1 . Surabaya: Unesa University Press	5%	
2	De Cc St	escribe the socept of atistics	<ol> <li>Able to describe the concept of Statistics</li> <li>Can describe statistical methods</li> <li>Can describe the types of Statistics</li> <li>Able to describe data summarization</li> <li>Able to describe data</li> </ol>	Criteria: test Form of Assessment : Project Results Assessment / Product Assessment, Test	Lectures and reading literature 4 X 50		Material: Concepts of Statistics Bibliography: Soesatyo, Y., Kurniawan, RY, & Prakoso, AF 2020. Statistics 1 . Surabaya: Unesa University Press	5%	
3	3 Able to operate SPSS		<ol> <li>Able to describe SPSS concepts.</li> <li>Able to open and understand tools in SPSS.</li> <li>Able to operate SPSS.</li> <li>Able to Manage Data</li> </ol>	Criteria: Project Results Assessment Form of Assessment : Project Results Assessment / Product Assessment	lecture and Practice 2 X 50		Material: SPSS Reference: Soesatyo, Y., Kurniawan, RY, & Prakoso, AF 2020. Statistics 1 . Surabaya: Unesa University Press	5%	
4	Ur Pa Pr	nderstand urametric Test ocedures	<ol> <li>Able to describe Parametric Tests</li> <li>Able to describe the Normality Test</li> <li>Able to describe the Homogeneity Test</li> <li>Able to describe Analysis of Variance (ANOVA)</li> </ol>	Criteria: Project Results Assessment Form of Assessment : Project Results Assessment / Product Assessment	Lectures, reading literature, Practice, assignments 4 X 50		Material: Parametric Tests References: Soesatyo, Y., Kurniawan, RY, & Prakoso, AF 2020. Statistics 1 . Surabaya: Unesa University Press	5%	

5	Understand Parametric Test Procedures	<ol> <li>Able to describe Parametric Tests</li> <li>Able to describe the Normality Test</li> <li>Able to describe the Homogeneity Test</li> <li>Able to describe Analysis of Variance (ANOVA)</li> </ol>	Criteria: Project Results Assessment Form of Assessment : Project Results Assessment / Product Assessment, Test	Lectures, reading literature, Practice, assignments 4 X 50	Material: Parametric Tests References: Soesatyo, Y., Kurniawan, RY, & Prakoso, AF 2020. Statistics 1 . Surabaya: Unesa University Press	5%
6	Understanding Non Parametric Test Procedures	<ol> <li>Can describe Non Parametric Tests</li> <li>Can describe the use of Non- Parametric statistical tests</li> <li>Can describe the use of the Chi Square test</li> <li>Can describe variance analysis</li> <li>Can describe various types of non- parametric tests</li> </ol>	Criteria: practice Form of Assessment : Assessment of Project Results / Product Assessment, Practices / Performance	Lectures, reading literature, assignments 4 X 50	Material: Non- Parametric Tests <b>References:</b> 1. Nurhasanah, S. 2020. Statistics Practicum 2 for Economics and Business. Jakarta: Salemba Empat	5%
7	Understanding Non Parametric Test Procedures	<ol> <li>Can describe Non Parametric Tests</li> <li>Can describe the use of Non- Parametric statistical tests</li> <li>Can describe the use of the Chi Square test</li> <li>Can describe variance analysis</li> <li>Can describe various types of non- parametric tests</li> </ol>	Criteria: Project Results Assessment Form of Assessment : Project Results Assessment / Product Assessment	Lectures, reading literature, assignments 4 X 50	Material: Non- Parametric Tests, use of Non- Parametric statistical tests, use of the Chi Square test, analysis of variance, various types of Non- Parametric tests <b>References:</b> <i>Soesatyo, Y.,</i> <i>Kurniawan,</i> <i>RY, &amp;</i> <i>Prakoso, AF</i> <i>2020.</i> <i>Statistics 1.</i> <i>Surabaya:</i> <i>Unesa</i> <i>University</i> <i>Press</i>	5%
8	UTS	test	Criteria: test Form of Assessment : Test	straight away 2 X 50	Material: UTS Reference: Soesatyo, Y., Kurniawan, RY, & Prakoso, AF 2020. Statistics 1 . Surabaya: Unesa University Press	0%

9	Understanding the Proportion Test	<ul> <li>1.1. Describe the Proportion Test</li> <li>2.2. Describe Hypothesis Testing for One Population Proportion</li> <li>3.3. Describe the Hypothesis Test for Proportions in Two Populations</li> </ul>	Criteria: Project Results Assessment Form of Assessment : Project Results Assessment / Product Assessment	project/product assessment, 3 x 50 Proportion Test Practice	Material: Proportion Test, Hypothesis Testing Proportion of One Population, Hypothesis Testing Proportion of Two Populations <b>References:</b> Soesatyo, Y., Kurniawan, RY, & Prakoso, AF 2020. Statistics 1. Surabaya: Unesa University Press	5%
10	Understanding the Proportion Test	<ul> <li>1.1. Describe the Proportion Test</li> <li>2.2. Describe Hypothesis Testing for One Population Proportion</li> <li>3.3. Describe the Hypothesis Test for Proportions in Two Populations</li> </ul>	Criteria: Project Results Assessment Form of Assessment : Project Results Assessment / Product Assessment	project/product assessment, 3 x 50 Proportion Test Practice	Material: Proportion Test, Hypothesis Testing Proportion of One Population, Hypothesis Testing Proportion of Two Populations <b>References:</b> Soesatyo, Y., Kurniawan, RY, & Prakoso, AF 2020. Statistics 1. Surabaya: Unesa University Press	10%
11	Understanding the Proportion Test	<ul> <li>1.1. Describe the Proportion Test</li> <li>2.2. Describe Hypothesis Testing for One Population Proportion</li> <li>3.3. Describe the Hypothesis Test for Proportions in Two Populations</li> </ul>	Criteria: Project Results Assessment Form of Assessment : Project Results Assessment / Product Assessment	project/product assessment, 3 x 50 Proportion Test Practice	Material: Proportion Test, Hypothesis Testing Proportion of One Population, Hypothesis Testing Proportion of Two Populations <b>References:</b> Soesatyo, Y., Kurniawan, RY, & Prakoso, AF 2020. Statistics 1. Surabaya: Unesa University Press	10%
12	Understanding Validity and Reliability	<ul><li>1.1. Describe</li><li>Validity</li><li>2.2. describe</li><li>Reliability</li></ul>	Criteria: Project Results Assessment Form of Assessment : Project Results Assessment / Product Assessment	project and performance 3 x 50	Material: Validity, Reliability References: Soesatyo, Y., Kurniawan, RY, & Prakoso, AF 2020. Statistics 1 . Surabaya: Unesa University Press	10%

13	Analysis of correlation and linear regression	<ul> <li>1.1. Describe correlation analysis</li> <li>2.2. Describe Simple Regression Analysis</li> <li>3.3. Describe multiple regression analysis</li> <li>4.4. Describe the assumptions of regression analysis</li> <li>5.5. Describe Dummy regression analysis</li> </ul>	Criteria: Project Results Assessment Form of Assessment of Project Results / Product Assessment, Practices / Performance	Project Based Learning 3 x 50	Material: Correlation analysis, Simple regression analysis, Multiple regression analysis, Regression analysis assumptions, Dummy regression analysis <b>References:</b> Soesatyo, Y., <i>Kurniawan</i> , <i>RY</i> , & <i>Prakoso, AF</i> 2020. Statistics 1. Surabaya: Unesa University Press	10%
14	Analysis of correlation and linear regression	<ol> <li>1.1. Describe correlation analysis</li> <li>2.2. Describe Simple Regression Analysis</li> <li>3.3. Describe multiple regression analysis</li> <li>4.4. Describe the assumptions of regression analysis</li> <li>5.5. Describe Dummy regression analysis</li> </ol>	Criteria: Project Results Assessment Form of Assessment of Project Results / Product Assessment, Practices / Performance	Project Based Learning 3 x 50	Material: Correlation analysis, Simple regression analysis, Multiple regression analysis, Regression analysis assumptions, Dummy regression analysis <b>References:</b> Soesatyo, Y., Kurniawan, RY, & Prakoso, AF 2020. Statistics 1. Surabaya: Unesa University Press	10%
15	Analysis of correlation and linear regression	<ol> <li>1.1. Describe correlation analysis</li> <li>2.2. Describe Simple Regression Analysis</li> <li>3.3. Describe multiple regression analysis</li> <li>4.4. Describe the assumptions of regression analysis</li> <li>5.5. Describe Dummy regression analysis</li> </ol>	Criteria: Project Results Assessment Assessment : Assessment of Project Results / Product Assessment, Practices / Performance	Project Based Learning 3 x 50	Material: Correlation analysis, Simple regression analysis, Multiple regression analysis, Regression analysis assumptions, Dummy regression analysis <b>References:</b> Soesatyo, Y., <i>Kurniawan,</i> <i>RY, &amp;</i> <i>Prakoso, AF</i> 2020. <i>Statistics 1.</i> <i>Surabaya:</i> <i>Unesa</i> <i>University</i> <i>Press</i>	10%
16	UAS	test	Criteria: test Form of Assessment : Test	test	Material: UAS Reference: Soesatyo, Y., Kurniawan, RY, & Prakoso, AF 2020. Statistics 1 . Surabaya: Unesa University Press	0%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	2.5%
2.	Project Results Assessment / Product Assessment	72.5%
3.	Practice / Performance	17.5%
4.	Test	7.5%
		100%

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.