

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

Document Code

	SEMESTER LEARNING PLAN												
Courses			CODE		Course Fan	nily	ily Credit Weight		SEMESTER	Compilation Date			
Statistics		8721102135		Compulsory	Study	T=2	P=0	ECTS=3.18	3	May 8, 2023			
AUTHORIZAT	ΓΙΟΝ		SP Develope	r	Program Su	Cour	se Clu	ister (Coordinator	Study Program	n Coordinator		
			Septyan Budy Cahya, S.Pd., M.Pd.; Dwi Yuli Rakhmawati, S.Si., M.Si., Ph.D			Dwi Yuli Rakhmawati, S.Si., M.Si., Ph.D				Dr. Tri Sudan MS	Dr. Tri Sudarwanto, S.Pd., MSM.		
Learning model	Case Studies					•							
Program	PLO study p	rogra	m that is chai	ged to the	e course								
Outcomes	PLO-8	Able	to demonstrate	a responsi	ble attitude fo	r achiev	/ing w	ork re	sults both inc	ividually and in g	roups		
(PLO)	PLO-11	Able Mark	to communicat ceting	e both orally	y and in writin	g in the	educa	ationa	l and scientif	c fields of Busine	ess and		
	PLO-12	Able Mark	to make approp teting based on	oriate decisi information	ions to solve p and data and	roblem Iysis by	is in th y utiliz	ne edu ing teo	cational and chnology and	scientific fields in information	Business and		
	PLO-15	Able comr	to design and o municate the re	carry out res sults	search in the e	ducatio	onal a	nd sci	entific fields o	of Business and N	Aarketing and		
	Program Obj	ective	es (PO)										
	PO - 1	CPM statis	K 1 Capable A stics	ble to utiliz	ze ICT to sea	rch for	r infor	matior	n, arguments	and critical stu	dies related to		
	PO - 2	CPM and c	K 2 Able to dis calculate freque	tinguish and ncy distribu	d formulate va tions.	arious 1	ypes,	types	and definition	ons of statistics,	show, interpret		
	PO - 3	CPM distril	K 3 Compile, bution, cumulat	formulate ive frequenc	and determi	ne the freque	prep ncy di	aratio stribu	n of freque tion graphs a	ncy tables, rela nd frequency cur	tive frequency ves		
	PO - 4	CPM meas	K 4 Identify m sures of central	neasures of values, ider	f central valu ntify and apply	es, ca ' meası	lculate ures o	e and f locat	interpret m	ode, mean, meo	lian and other		
	PO - 5	CPM dispe	K 5 Identifying ersion, Chebysh	and apply ev's postula	ing measures ates, empirica	of dis rules a	persionand sta	on, ide andaro	entifying and d numbers	applying measu	ires of relative		
	PLO-PO Mat	rix											
			P.0	PLO-	8 P	LO-11		PI	LO-12	PLO-15			
			PO-1										
			PO-2										
			PO-3										
	PO-4												
	PO-5												
	PO Matrix at	the e	nd of each lea	arning stag	ge (Sub-PO)								

								1												
			P.0	-	1	T	r	1		r	T	We	ek	1	r	r		·		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
			PO-1	_																
			PO-2																	
			PO-3																	
			PO-4																	
			PO-5																	
Short Course Descript	hort ourse discusses studying basic statistical concepts for quantitative research. This course is a basic course supportin psychological research and measurement.							ting												
Referen	ces	Main :																		
		 Bluma Michae Santos 	 Bluman Allan G. 2007. Elementary Statistics seventh edition. Mc Graw Hill Michael Longnecker, 2010. An IntroductionStatistical Methods and Data Analysis. Cengage Learning Santoso Singgih. 2002. Buku Latihan SPSS Statistik parametrik. Jakarta: PT. Elex Media Komputindo. 																	
		Supporters:																		
Support lecturer	ing	Dwi Yuli Rakhr Septyan Budy	nawati, S.Si., M.S Cahya, S.Pd., M.F	i., Ph.I Pd.	D.															
Week-	Fin eac stag	al abilities of h learning ge b-PO)	Eva	aluatio Cr	on iteria	1 & F	orm	C	s Offlin	H Lea Stude [E e (Help Learning, arning methods, lent Assignments, Estimated time]		[Learr mate Refer	ning rials <mark>ences</mark>	g Is Assessmer ces Weight (%		ent %)		
(4)		(0)	(0)			0		0	offlin	e)								(0)		
(1)		(2)	(3)	.		4)			(5)	-	р. [.]		(6)			(7)		(8)	
		eaching and action of atistics	 Students are able to understand describing the meaning of statistics Students are able to describe statistical functions Students are able to describe statistical groupings based on data processing methods Students are able to describe statistical groupings based on data processing methods Students are able to describe statistical groupings based on the shape of the parameters Able to describe data 	Formation of the second	ena: udent cce ba mory gntiin tistic ncept n of essm <i>c</i> ipat <i>i</i> ties	s car ick (re) ig baa al s s ment : ory	n :		scuss cture K 50	sion 2	3 X	50	in Lec	ture	MU stig F Stig Stig Stig Stig Stig Stig Stig Stig	ateria nderst atistic: autistic: roupin atistic: ased o rocess rocess rocess rocess rocess rocess rocess rocess rocess ased o rocess ro	It 1. canding s 2. ns of s 3. lg s on data ing s 4. g s on the ters 5. data: (2015. cays to tive s. a s er.		5%	

2	Students understand hypothesis testing	Students are able to study, apply and analyze hypothesis testing	Criteria: Able to answer questions regarding the material Form of Assessment : Participatory Activities	Practical Discussion Lecture 3 X 50	Practical Discussion Lecture 3 X 50	Material: Frequency Table References: Hidayatullah, Syarif. 2015. Easy Ways to Master Descriptive Statistics. Jakarta: Salemba Teknika Publisher.	2%
3	Students understand hypothesis testing	Students are able to study, apply and analyze hypothesis testing	Criteria: Able to answer questions regarding the material Form of Assessment : Participatory Activities	Practical Discussion Lecture 3 X 50	Practical Discussion Lecture 3 X 50	Material: Frequency Table References: Hidayatullah, Syarif. 2015. Easy Ways to Master Descriptive Statistics. Jakarta: Salemba Teknika Publisher.	2%
4	Students understand associative statistics (correlation)	 Able to explain the meaning of tables Able to explain various tables Able to explain various diagrams Able to make various kinds of diagrams with the help of Ms. excel 	Criteria: Able to answer questions regarding the material Form of Assessment : Participatory Activities	Practical Discussion Lecture 3 X 50	Practical Discussion Lecture 3 X 50	Material: Tables and Diagrams References: Hidayatullah, Syarif. 2015. Easy Ways to Master Descriptive Statistics. Jakarta: Salemba Teknika Publisher.	5%
5	Calculating the measure of central tendency of data frequency distribution	Able to solve problems using correlation	Criteria: Able to answer questions regarding the material Form of Assessment : Participatory Activities	Practical Discussion Lecture 3 X 50	Practical Discussion Lecture 3 X 50	Material: Size of concentration Reference: Noegroho. 2016. Introduction to Economic and Business Statistics. Yogyakarta: UPP STIM YKPN	2%
6	Able to understand associative statistics (regression)	 Can calculate manual mode & application in MS. Excel and SPSS Can calculate median manual & application in MS. Excel and SPSS 	Criteria: Able to answer questions regarding the material Form of Assessment : Participatory Activities	Practical Discussion Lecture 3 X 50	Practical Discussion Lecture 3 X 50	Material: Size of concentration Reference: Noegroho. 2016. Introduction to Economic and Business Statistics. Yogyakarta: UPP STIM YKPN	2%

1.Abi calc Per Dec Qua Rar Qua Rar 2.Abi exp Sta dev Var and sco Sta errc Qua Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Var Sta dev Var and sco Sta dev Var and sco Sta sco Sta dev Var and sco Sta dev Var and sco Sta dev Var and sco Sta dev Sta Sta dev Var and sco Sta sta frec disp mea fron Sta Sta Sta Sta Sta Sta Sta Sta Sta Sta	e to culate: centiles, artiles, artiles, artiles, age, ni- rrtile ge e to lain ndard iation, iance I.Z re, ndard or, alitative iation ex for all ptoms plain the aning of juency parity asures n data To do do m Exam ly F A T C C C C C C C C C C C C C C C C C C	Criteria: Able to answer questions regarding the material Form of Assessment : Participatory Activities Criteria: Able to answer questions regarding the material Form of Assessment : Test Criteria: Able to answer questions regarding the material	Practical Discussion Lecture 3 X 50 Written Test 2 X 50 Practical Discussion Lecture 3 X 50	Practical Discussion Lecture 3 X 50 Written Test 2 X 50 Practical Discussion Lecture 3 X 50	Material: Data deviation Bibliography: Hidayatullah, Syarif. 2015. Easy Ways to Master Descriptive Statistics. Jakarta: Salemba Teknika Publisher. Material: Descriptive Statistics Bibliography: Hidayatullah, Syarif. 2015. Easy Ways to Master Descriptive Statistics. Bibliography: Naster Descriptive Statistics Bibliography: Statistics Bibliography: Statistics Bibliography: Statistics Bibliography: Statistics Bibliography: Naterial: Descriptive Statistics Bibliography: Naterial: Descriptive Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics Bibliography: Noegroho. 2016. Statistics. Bibliography: Noegroho. 2016. Statistics. Bibliography: Noegroho. 2016. Statistics. Bibliography: Noegroho. 2016. Statistics. Bibliography: Noegroho. 2016. Statistics. Bibliography: Noegroho. 2016. Statistics. Stat	2%
1.0		Critoria:	Practical	Practical Discussion	Economic and Business Statistics. Yogyakarta: UPP STIM YKPN	204
1.Can calculate the size the slope 2.Can calculate kurtosis	e of e F F	Criteria: Able to answer questions regarding the material Form of Assessment : Participatory Activities	Practical Discussion Lecture 3 X 50	Practical Discussion Lecture 3 X 50	Material: Kurtosis and skewness Reference: Hidayatullah, Syarif. 2015. Easy Ways to Master Descriptive Statistics. Jakarta: Salemba Teknika Publisher.	2%

10	Students understand comparative statistics	Can calculate kurtosis	Criteria: Able to answer questions regarding the material Form of Assessment : Participatory Activities	Practical Discussion Lecture 3 X 50	Practical Discussion Lecture 3 X 50	Material: Normal Curve Reference: Hidayatullah, Syarif. 2015. Easy Ways to Master Descriptive Statistics. Jakarta: Salemba Teknika Publisher.	2%
11	Students are able to understand the concept of factor analysis	Able to understand and carry out factor analysis	Criteria: Able to answer questions regarding the material Form of Assessment : Participatory Activities	Practical Discussion Lecture 3 X 50	Practical Discussion Lectures	Material: Library Index Numbers :	10%
12	Students are able to understand the concept of factor analysis	Able to understand and carry out factor analysis	Criteria: Able to answer questions regarding the material Form of Assessment : Participatory Activities	Practical Discussion Lecture 3 X 50	Practical Discussion Lectures 3 x 50	Material: Library Index Figures : Noegroho. 2016. Introduction to Economic and Business Statistics. Yogyakarta: UPP STIM YKPN	4%
13	Students are able to understand the concept of factor analysis	Can explain the definition of probability	Criteria: Able to answer questions regarding the material Form of Assessment : Participatory Activities	Practical Discussion Lecture 3 X 50	Practical Discussion Lectures 3 x 50	Material: Probability References: Hidayatullah, Syarif. 2015. Easy Ways to Master Descriptive Statistics. Jakarta: Salemba Teknika Publisher.	5%
14	Students understand non- parametric statistics	Able to solve problems using non-parametric statistics	Criteria: Able to answer questions regarding the material Form of Assessment : Participatory Activities	Practical Discussion Lecture 3 X 50	Practical Discussion Lecture 3 X 50	Material: Trend linear models Reader: Sugiyono. 2016. Statistics for Research. Bandung: Alfabeta	2%
15	Students understand non- parametric statistics	Able to solve problems using non-parametric statistics	Criteria: Able to answer questions regarding the material Form of Assessment : Participatory Activities	Practical Discussion Lecture 3 X 50	Practical Discussion Lecture 3 X 50	Material: Non-linear trends Reader: Sugiyono. 2016. Statistics for Research. Bandung: Alfabeta	2%

16	Final Exam	Ability to do Final Exam questions correctly	Criteria: Able to answer questions regarding the material	Written test 2 X 50	Written test 2 X 50	Material: Descriptive Statistics Bibliography: Hidayatullah, Syarif. 2015. Easy Ways to	30%
			Assessment : Test			Master Descriptive Statistics. Jakarta: Salemba Teknika Publisher. Material: Descriptive Statistics, Probability, Time Series Reader: Sugiyono. 2016. Statistics for Research. Bandung: Alfabeta	
						Material: Descriptive Statistics, Probability, Time Series Reference: Noegroho. 2016. Introduction to Economic and Business Statistics. Yogyakarta: UPP STIM YKPN	

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	50%
2.	Test	50%
		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.
- 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.

- 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%.
 TM=Face to face, PT=Structured assignments, BM=Independent study.