



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

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Courses			CODE			C	ourse	Fam	ily		Cre	edit	Wei	ght	,	SEMES	TER	Con	npilati	ion
Statistics I			6120103158					T=:	3 F	P=0	ECTS=4	1.77	1		Aug 202	ust 11 3	,			
AUTHORIZAT	ION		SP Develope	er					C	Cours	e Clu	ste	r Co	ordinato	r :	Study F	Progra	m Co	ordina	itor
			Dr. Sanaji., S.E., M.Si.					Trias Madanika K., S.Pd., S.E., M.M				≣.,	Yuyun Isbanah, S.E., M.SM.							
Learning model	Project Based	Lear	rning																	
Program Learning	PLO study pr	ogra	ım that is ch	arge	d to	the c	ours	е												
Outcomes	Program Obje	ectiv	es (PO)																	
(PLO)	PO - 1	Stud	ents are able t	o cho	ose (descr	iptive	statis	tical	meth	ods th	at s	suit t	he type c	f data	to solv	e prob	lems (C5)	
	PO - 2	Stud	ents are able t	o cor	rectly	inter	pret tl	ne res	sults	of des	scripti	ve s	statis	stical data	a anal	ysis (C	5)			
	PO - 3	Stud	ents are able t	o sho	w int	ellige	nt, the	oroug	h an	d resp	onsib	ole c	chara	acter in s	atistic	s learni	ng act	ivities	(P5)	
	PO Matrix at t	P P	P.O O-1 O-2 O-3	1	2	3	4	5	6	7	8	9		0 11	12	13	14	15	16	
Short Course Description	This course co variability as w questions and course contains variability as w questions and a Main:	ell a answ bas ell as	s examining of vers, as well a ic concepts of s examining the	confic as tal desc ne co	lence king a riptiv nfide	inte an in e sta nce i	rvals, quiry tistics nterva	inde: appro whic al, inc	x nu bach h ind lex i	mbers , nam lude t numbe	s and nely c the pr ers, a	tim omp ese nd 1	ne se pletir ntati time	eries. Th ng assigr on of dat series. I	e lear iments a, calc earni	rning m s and s culation ng met	ethod solving of me hods a	is lec proble dian v	tures a ems. T alues	and This and
	 Lind, D 16th Ed Subagy 	ougla dition yo, P	no, Noegroho. as A. Marchal, . McGraw-Hill angestu. 2012 & Purwanto, Sk	Willia Educ . Stat	am G ation istika	and Desk	l Watl criptif .	nen, s Yogy	Sam yaka	uel A. rta:BF	2016 PFE.	. St	atisti	cal Tech	niques	s in Bus	siness	andEc		
	Supporters:		1																	

Supporting lecturer

Dr. Sanaji, S.E., M.Si.
Dr. Andre Dwijanto Witjaksono, S.T., M.Si.
Agus Frianto, S.T., S.E., M.M.
Widyastuti, S.Si., M.Si.
Dwi Yuli Rakhmawati, S.Si., M.Si., Ph.D.
Renny Sari Dewi, S. Kom., M. Kom., MCE., MOS.
Anita Safitri, M. Kom.
Syaifurrizal Wijaya Putra, S.E., M.M.
Rasyidi Faiz Akbar, S.E., M.M.
Dr. Riedel Paulus Jacobis, S.E., M.M.
Muhammad Rizky Ramadhan, BBus., MITHM.
Bima Yatna Anugerah Ramadhani, B.Ba., M.M.

Week-	Final abilities Evaluation of each learning stage		Learn Studen	p Learning, ing methods, t Assignments, imated time]	Learning materials [References	Assessment Weight (%)	
	(Sub-PÖ)	Indicator	Criteria & Form	Offline (offline)	Online (online)]	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Formulate the meaning and function of statistics	1.Able to explain the meaning of statistics 2.Able to explain types of statistics 3.Able to explain types of statistics statistics types of data in statistics	Form of Assessment : Participatory Activities	Lectures, demonstrations and questions and answers 3 X 50		Material: understanding and functions of statistics References: Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2016. Statistical Techniques in Business and Economics, 16th Edition. McGraw-Hill Education Material:	0%
						meaning and function of statistics Reader: Subagyo, Pangestu. 2012. Descriptive Statistics. Yogyakarta: BPFE.	
2	Compile data frequency distribution tables and two-way tables	1.Able to compile a frequency distribution table 2.Able to compile two-way tables	Form of Assessment : Participatory Activities	Lectures, demonstrations and questions and answers 3 X 50		Material: Frequency Distribution References: Subagyo, Pangestu. 2012. Descriptive Statistics. Yogyakarta: BPFE. Material: Frequency Distribution References: Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3) Volume 1. Jakarta: Salemba Empat	2%

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3	Describe various kinds of diagrams	Able to describe diagrams: histogram, bargraph, piechart, polygon, ogive, pictogram	Form of Assessment : Participatory Activities	Lectures, demonstrations and questions and answers 3 X 50		Material: diagrams in statistics References: Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2016. Statistical Techniques in Business and Economics, 16th Edition. McGraw-Hill Education Material: diagrams in statistics References: Subagyo, Pangestu. 2012. Descriptive Statistics. Yogyakarta: BPFE. Material: diagrams in statistics References: Subagyo, Pangestu. 2012. Statistics Yogyakarta: BPFE. Material: diagrams in statistics Reference: Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3) Volume 1. Jakarta: Salemba Empat	3%
4	Analyze measures of central tendency of data	Able to calculate and analyze mean, median, mode for group data	Criteria: Answer correctly Form of Assessment: Participatory Activities	Lectures, demonstrations and questions and answers 3 X 50		Material: Central tendency Bibliography: Boedijoewono, Noegroho. 2014. Introduction to Economic and Business Statistics 1: Descriptive. UPP STIM YKPN Material: central tendency References: Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2016. Statistical Techniques in Business and Economics, 16th Edition. McGraw-Hill Education	2%

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5	Analyze measures of central tendency of data	Able to calculate: Percentiles, Deciles, Quartiles, Range, Quartile Range, Semiquartile Range	Criteria: assessment rubric Form of Assessment : Participatory Activities	Lectures, demonstrations and questions and answers 3 x 50		Material: Percentiles, Deciles, Quartiles, Range, Quartile range, Semiquartile range References: Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2016. Statistical Techniques in Business and Economics, 16th Edition. McGraw-Hill Education Material: concentration measures References: Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3) Volume 1. Jakarta: Salemba Empat	5%
6	Analyze the size of the data spread	Able to calculate and analyze Z score, Standard error, Qualitative Variation Index, Standard deviation and Variance	Criteria: assessment rubric Form of Assessment : Participatory Activities	Lectures, demonstrations and questions and answers 3 X 50		Material: Measures of dispersion References: Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2016. Statistical Techniques in Business and Economics, 16th Edition. McGraw-Hill Education Material: Size of distribution Bibliography: Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3) Volume 1. Jakarta: Salemba Empat	5%

7	Analyze the size of the data spread	Able to calculate and analyze the steepness and sharpness of the normal curve	Criteria: assessment rubric Form of Assessment : Participatory Activities	Lectures, demonstrations and questions and answers 3 x 50	Material: Measures of data dispersion References: Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2016. Statistical Techniques in Business and Economics, 16th Edition. McGraw-Hill Education Material: Size of data distribution References:	3%
8	MIDTERM			test	Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3) Volume 1. Jakarta: Salemba Empat	20%
	EXAM		Form of Assessment : Test	3 X 50		2070
9	Analyzing normal distribution probabilities	Able to calculate and analyze normal distribution opportunities	Form of Assessment : Participatory Activities	Lectures, demonstrations and questions and answers 3 X 50	Material: parameter estimation References: Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2016. Statistical Techniques in Business and Economics, 16th Edition. McGraw-Hill Education Material: parameter estimation References: Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3) Volume 1. Jakarta: Salemba Empat	5%

10	Analyzing	Able to		Lectures,	Material:	5%
	parameter estimates	calculate estimates of average and variance parameters for a population	Form of Assessment : Participatory Activities	demonstrations and questions and answers 3 X 50	Parameter estimation References: Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2016. Statistical Techniques in Business and Economics, 16th Edition. McGraw-Hill Education	
					Material: Parameter estimation References: Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3) Volume 1. Jakarta: Salemba Empat	
11	Analyzing parameter estimates	Able to calculate estimates of average and variance parameters for two populations	Form of Assessment : Participatory Activities	Lectures, demonstrations and questions and answers 3 x 50	Material: Parameter estimation References: Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2016. Statistical Techniques in Business and Economics, 16th Edition. McGraw-Hill Education Material: Parameter estimation References: Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3) Volume 1. Jakarta: Salemba Empat	5%

12	Analyze different types of index numbers	Able to calculate single index, aggregate index, average index, weighted average index	Form of Assessment : Participatory Activities	Lectures, demonstrations and questions and answers 3 x 50	Material: index numbers References: Subagyo, Pangestu. 2012. Descriptive Statistics. Yogyakarta: BPFE. Material: index numbers References: Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2016. Statistical Techniques in Business and Economics, 16th Edition. McGraw-Hill Education	5%
13	Analyzing time series/trend data	Able to compile and analyze time series data using linear trend equations	Form of Assessment : Participatory Activities	Lectures, demonstrations and questions and answers 3 X 50	Material: time series References: Subagyo, Pangestu. 2012. Descriptive Statistics. Yogyakarta: BPFE. Material: time series References: Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2016. Statistical Techniques in Business and Economics, 16th Edition. McGraw-Hill Education	2%
14	Analyzing time series / trends	1.Able to compile and analyze non-linear trend equations 2.Able to compile and analyze seasonal trends	Criteria: assessment rubric Form of Assessment : Participatory Activities	Lectures, demonstrations and questions and answers 3 X 50	Material: Time series References: Subagyo, Pangestu. 2012. Descriptive Statistics. Yogyakarta: BPFE. Material: Time series References: Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2016. Statistical Techniques in Business and Economics, 16th Edition. McGraw-Hill Education	3%

15	Analyzing correlations	1.Able to calculate and analyze product moment correlation. 2.Able to calculate and analyze Kendal correlation and Spearman rank.	Form of Assessment : Participatory Activities	Lectures, demonstrations and questions and answers 3 x 50	Material: correlation Bibliography: Subagyo, Pangestu. 2012. Descriptive Statistics. Yogyakarta: BPFE. Material: correlation Bibliography: Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3) Volume 1. Jakarta: Salemba Empat	5%
16	FINAL EXAMS		Criteria: Answer correctly Form of Assessment: Test	test 3 X 50		30%

Evaluation Percentage Recap: Project Based Learning

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.
- 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.