

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

Document Code

SEMESTER LEARNING PLAN

Statistics 6220103090 Computery Study Program Subject T=3 P=0 ECTS=4.77 2 May is Study Program AUTHORIZATION SP Developer Course Cluster Coordinator Study Program Coordinator Study Program Coordinator Study Program Coordinator Dr. Rohmaw Kusumaningtas, S MSA. Learning model Case Studies PLO study program that is charged to the course Dr. Rohmaw Kusumaningtas, S MSA. Program Quictomes (PLO) Able to apply and analyze basic principles of various economic theories: Accounting Science, Business : MSA. PO PO-1 Able to analyze a responsible attitude towards work in their area of expertise independently and in group PO-2 Able to analyze a responsible attitude towards work in their area of expertise independently and in group PO-2 Able to analyze theoretical and practical concepts regarding various descriptive statistics, parame monparametric information and co monparametric information and co po-3 PLO-PO Matrix	Statistics AUTHORIZAT	ION		6220103090)					Course Family			Credit weight							
AUTHORIZATION SP Developer Course Cluster Coordinator Study Program Coordinator Rediyanto Putra, SE,, MSA Rendra Artef Hidayat, S.Pd., M.Sc Dr. Rohmaw, Kusumaningias, S. MSA. Learning Model Case Studies Dr. Rohmaw, Kusumaningias, S. MSA. PLO 5 Able to apply and analyze basic principles of various economic theories; Accounting Science, Business, Law PLO 5 Able to analyze a responsible attitude towards work in their area of expertise independently and in group PO - 1 PLO 4 Able to design and carry out research in the field of accounting and communicate the results of data analysis. PO - 4 Able to design and carry out research in the field of accounting various descriptive statistics, parame programmetric methods statistics (discrete and connegative regarding various descriptive statistics, parametric methods) PLO-PO Matrix PO - 4 PLO-PO Matrix PO - 1 PO - 1 1 2 3 4 4 5 6 7 8 9 10 11 11 12 13 14 15 PO - 1 PO - 1 PO - 1 PO - 2 PO - 1 PO - 1 PO - 1 PO - 1 PO - 1 PO - 1 PO - 1 PO - 2 PO - 1 PO - 4 PO - 1 PO - 1 PO - 1 PO - 2 PO - 1	AUTHORIZAT	ION						Com	pulso	ry St	udy	٦	Г=3	P=0	ECTS=4	1.77		2	May	/ 8, 20
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P0-4 Able to analyze theoretical and practical concepts regarding various descriptive statistics, parame nonparametric inferential statistics (discrete and continuous probability distributions, estimation and continuous probability distributions, estintervalandi and continuous problem based, project-bas		PO - 3 Able to design and carry out research in the field of accounting and communicate the results																		
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I I				P.0									Wee	k						
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Short Course Description In this course students learn about descriptive and inferential statistics in the use of cross section, time series and par Lectures are carried out using problem-based, project-based, discussion and presentation learning models. References Main :			PC)-3																
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		Supporters:						
Support lecturer	ing	Prof. Dr. Pujiono Dr. Ni Nyoman / Rediyanto Putra	o, SE., Ak., M.Si. Alit Triani, S.E., M.Ak , S.E., M.S.A.					
Week-	Fin eac sta	al abilities of th learning ge	Eval	uation	He Learr Studer [Es	Ip Learning, ning methods, nt Assignments, timated time]	Learning materials	Assessment Weight (%)
	(Su	b-PO)	Indicator	Criteria & Form	Offline(offline)	Online (<i>online</i>)	1	
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Ał th m	ole to determine e level of data easurement	 Accuracy in explaining and evaluating types of statistics Accuracy in explaining and evaluating types of variables Accuracy in explaining and evaluating research cases by lecturers Accuracy in explaining and measuring the level of data measurement 	Criteria: Descriptive rubric Accuracy of describing and explaining Form of Assessment : Participatory Activities	TM (1x(3x50')): Explanation of material and discussion BM (1x(3x60')): Understanding of material PT (1x(3x60')): Individual assignment	SIDIA	Material: Chapter 1 References: Lind, Douglas A., Marchal, William G., Wathen, Samuel A. 2012. Statistical Techniques in Business & Economics. Fifteenth Edition. United States: McGraw- Hill.	4%
2	Al th lo m ar pl st di	ble to calculate e relative cation of the ean, median, ad mode, dot ot data and eam-and-leaf splay	 Accuracy in determining the relative position of the average Accuracy in determining the median Accuracy in determining the mode 	Criteria: Descriptive rubric Accuracy of describing and explaining Form of Assessment : Participatory Activities	TM (1x(3x50')): Explanation of material and discussion BM (1x(3x60')): Understanding of material PT (1x(3x60')): Individual assignment	SIDIA	Material: Chapter 2 References: Lind, Douglas A., Marchal, William G., Wathen, Samuel A. 2012. Statistical Techniques in Business & Economics. Fifteenth Edition. United States: McGraw- Hill.	4%

3	Able to calculate the mean, variance, and standard deviation of discrete probability distributions and normal probability distributions	 Accuracy in explaining and evaluating random variables Accuracy in explaining and evaluating binomial probability distributions Accuracy in explaining and evaluating poison probability distributions Accuracy in explaining and evaluating poison probability distributions Accuracy in explaining and evaluating standard normal probability distributions Accuracy in explaining and evaluating standard normal probability distributions Accuracy in explaining and evaluating the normal approach to binomials 	Criteria: Descriptive rubric Accuracy of describing and explaining Form of Assessment : Participatory Activities	TM (1x(3x50')): Explanation of material and discussion BM (1x(3x60')): Understanding of material PT (1x(3x60')): Individual assignment	SIDIA	Material: Chapter 3 References: Lind, Douglas A., Marchal, William G., Wathen, Samuel A. 2012. Statistical Techniques in Business & Economics. Fifteenth Edition. United States: McGraw- Hill.	4%
4	Able to determine the sampling method	 Accuracy in explaining and evaluating sampling methods Accuracy in explaining and evaluating the rationale for the sample Accuracy in explaining and evaluating simple random sampling Accuracy in explaining and evaluating systematic random sampling Accuracy in explaining and evaluating systematic random sampling Accuracy in explaining and evaluating stratified random samples Accuracy in explaining and evaluating cluster sampling Accuracy in explaining and evaluating cluster sampling Accuracy in explaining and evaluating the middle limit theorem 	Criteria: Determine the selection of sampling methods that will be used Form of Assessment : Participatory Activities	TM (1x(3x50')): Explanation of material and discussion BM (1x(3x60')): Understanding of material PT (1x(3x60')): Individual assignment	SIDIA	Material: Chapter 4 References: Lind, Douglas A., Marchal, William G., Wathen, Samuel A. 2012. Statistical Techniques in Business & Economics. Fifteenth Edition. United States: McGraw- Hill.	4%

5	Able to determine estimates and confidence intervals on population means and select appropriate sample sizes	 Accuracy in describing and evaluating point estimates of population means Accuracy in describing and evaluating confidence intervals on population means Accuracy in describing and evaluating confidence intervals for a proportion Accuracy in describing and evaluating confidence intervals for a proportion Accuracy in explaining and evaluating choosing the appropriate sample size Accuracy in explaining and evaluating choosing the appropriate sample size 	Criteria: Determine estimates and confidence intervals on population means and appropriate sample sizes Form of Assessment : Participatory Activities	TM (1x(3x50')): Explanation of material and discussion BM (1x(3x60')): Understanding of material PT (1x(3x60')): Individual assignment	SIDIA	Material: Chapter 5 References: Lind, Douglas A., Marchal, William G., Wathen, Samuel A. 2012. Statistical Techniques in Business & Economics. Fifteenth Edition. United States: McGraw- Hill.	5%
6	Able to provide appropriate decisions in the five-stage hypothesis testing procedure and p value in hypothesis testing and two-sample hypothesis testing	 Accuracy in explaining and evaluating whether a hypothesis is tested Accuracy in explaining and evaluating the five-stage procedure for testing hypotheses Accuracy in explaining and evaluating one-sided and two- sided significance tests Accuracy in explaining and evaluating one-sided and two- sided significance tests Accuracy in explaining and evaluating the p value in hypothesis testing 	Criteria: Five-stage procedure and hypothesis testing and p value Form of Assessment : Participatory Activities	TM (1x(3x50')): Explanation of material and discussion BM (1x(3x60')): Understanding of material PT (1x(3x60')): Individual assignment	SIDIA	Material: Chapter 6 References: Lind, Douglas A., Marchal, William G., Wathen, Samuel A. 2012. Statistical Techniques in Business & Economics. Fifteenth Edition. United States: McGraw- Hill.	5%

7	Able to describe the F distribution, ANOVA test, two- way ANOVA with interaction	 Accuracy in explaining and evaluating two-sample hypothesis testing: independent samples Accuracy in explaining and evaluating two sample proportion tests Accuracy in explaining and evaluating two-sample hypothesis tests: bound samples 	Criteria: Conduct a two- sample hypothesis test: independent and dependent samples Form of Assessment : Portfolio Assessment, Practice / Performance	TM (1x(3x50')): Explanation of material and discussion BM (1x(3x60')): Understanding of material PT (1x(3x60')): Individual assignment	SIDIA	Material: Chapter 7 References: Lind, Douglas A., Marchal, William G., Wathen, Samuel A. 2012. Statistical Techniques in Business & Economics. Fifteenth Edition. United States: McGraw- Hill.	10%
8	UTS		Criteria: Maximum Score 100 Form of Assessment : Test	Midterm exam			15%
9	Able to describe the F distribution, ANOVA test, two- way ANOVA with interaction	 Be able to explain and evaluate the F distribution Able to explain and evaluate the ANOVA test Able to explain and evaluate two- way analysis of variance Able to explain and evaluate two- way ANOVA with interactions 	Criteria: Conduct ANOVA test, two-way ANOVA with interaction Form of Assessment : Participatory Activities	TM (1x(3x50')): Explanation of material and discussion BM (1x(3x60')): Understanding of material PT (1x(3x60')): Individual assignment	SIDIA	Material: Chapter 9 References: Lind, Douglas A., Marchal, William G., Wathen, Samuel A. 2012. Statistical Techniques in Business & Economics. Fifteenth Edition. United States: McGraw- Hill.	4%
10	Able to describe the F distribution, ANOVA test, two- way ANOVA with interaction	 Be able to explain and evaluate the F distribution Able to explain and evaluate the ANOVA test Able to explain and evaluate two- way analysis of variance Able to explain and evaluate two- way ANOVA with interactions 	Criteria: Conduct ANOVA test, two-way ANOVA with interaction Form of Assessment : Participatory Activities	TM (1x(3x50')): Explanation of material and discussion BM (1x(3x60')): Understanding of material PT (1x(3x60')): Individual assignment	SIDIA	Material: Chapter 10 References: Lind, Douglas A., Marchal, William G., Wathen, Samuel A. 2012. Statistical Techniques in Business & Economics. Fifteenth Edition. United States: McGraw- Hill.	4%

	And provide appropriate decisions in correlation analysis, assess the predictive ability of regression equations, and predict from interval estimates	 Accuracy in explaining and evaluating what correlation analysis is Accuracy in explaining and evaluating correlation coefficients Accuracy in explaining and evaluating describes the regression line Accuracy in explaining and evaluating the significance of the slope Accuracy in explaining and evaluating the significance of the slope Accuracy in explaining and evaluating predictive ability by regression equations Accuracy in explaining and evaluating predictive ability by regression equations Accuracy in explaining and evaluating predictions from interval estimates 	Crarying out correlation analysis tests with SPSS software Form of Assessment : Participatory Activities	IM (1x(3x50')): Explanation of material and discussion BM (1x(3x60')): Understanding of material PT (1x(3x60')): Individual assignment	SIDIA	Material: Chapter 11 References: Lind, Douglas A., Marchal, William G., Wathen, Samuel A. 2012. Statistical Techniques in Business & Economics. Fifteenth Edition. United States: McGraw- Hill.	4%
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	Able to describe and provide appropriate decisions in correlation analysis, assess the predictive ability of regression equations, and predict from interval estimates	 Accuracy in explaining and evaluating what correlation analysis is Accuracy in explaining and evaluating correlation coefficients Accuracy in explaining and evaluating describes the regression line Accuracy in explaining and evaluating the significance of the slope Accuracy in explaining and evaluating the significance of the slope Accuracy in explaining and evaluating the significance of the slope Accuracy in explaining and evaluating predictive ability by regression equations Accuracy in explaining and evaluating predictions from interval estimates 	Criteria: Carrying out correlation analysis tests with SPSS software Form of Assessment : Participatory Activities	TM (1x(3x50')): Explanation of material and discussion BM (1x(3x60')): Understanding of material PT (1x(3x60')): Individual assignment	SIDIA	Material: Chapter 12 References: Lind, Douglas A., Marchal, William G., Wathen, Samuel A. 2012. Statistical Techniques in Business & Economics. Fifteenth Edition. United States: McGraw- Hill.	4%
13	Able to describe and provide appropriate decisions in correlation analysis, assess the predictive ability of regression equations, and predict from interval estimates	 Accuracy in explaining and evaluating what correlation analysis is Accuracy in explaining and evaluating correlation coefficients Accuracy in explaining and evaluating describes the regression line Accuracy in explaining and evaluating the significance of the slope Accuracy in explaining and evaluating the significance of the slope Accuracy in explaining and evaluating the significance of the slope Accuracy in explaining and evaluating predictive ability by regression equations Accuracy in explaining and evaluating predictions from interval estimates 	Criteria: Carrying out correlation analysis tests with SPSS software Form of Assessment : Participatory Activities	TM (1x(3x50')): Explanation of material and discussion BM (1x(3x60')): Understanding of material PT (1x(3x60')): Individual assignment	SIDIA	Material: Chapter 13 References:	3%

14	Able to describe and make appropriate decisions in multiple analysis: evaluating multiple regression equations, evaluating assumptions in multiple regression, regression, with interaction, multilevel regression, and non-parametric analysis	 Accuracy in explaining and evaluating time series components Accuracy in explaining and evaluating linear trends Accuracy in explaining and evaluating non-linear trends Accuracy in explaining and evaluating Durbin- Watson statistics 	Criteria: Test the smallest quadrant method with SPSS software Form of Assessment : Participatory Activities	TM (1x(3x50')): Explanation of material and discussion BM (1x(3x60')): Understanding of material PT (1x(3x60')): Individual assignment	SIDIA	Material: Chapter 14 References: Lind, Douglas A., Marchal, William G., Wathen, Samuel A. 2012. Statistical Techniques in Business & Economics. Fifteenth Edition. United States: McGraw- Hill.	5%
15	Able to describe and make appropriate decisions in multiple analysis: evaluating multiple regression equations, evaluating assumptions in multiple regression, in multiple regression, and non-parametric analysis	 Accuracy in explaining and evaluating time series components Accuracy in explaining and evaluating linear trends Accuracy in explaining and evaluating non-linear trends Accuracy in explaining and evaluating Durbin- Watson statistics 	Criteria: Test the smallest quadrant method with SPSS software Form of Assessment : Portfolio Assessment, Practice / Performance	TM (1x(3x50')): Explanation of material and discussion BM (1x(3x60')): Understanding of material PT (1x(3x60')): Individual assignment	SIDIA	Material: Chapter 15 References: Lind, Douglas A., Marchal, William G., Wathen, Samuel A. 2012. Statistical Techniques in Business & Economics. Fifteenth Edition. United States: McGraw- Hill.	10%
16	UAS		Form of Assessment : Test	Final exams			15%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	50%
2.	Portfolio Assessment	10%
3.	Practice / Performance	10%
4.	Test	30%
		100%

Notes

- 1. 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 abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities 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
- 10. Learning materials are details of 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.