



**Universitas Negeri Surabaya
Faculty of Economics and Business
Islamic Economics Undergraduate Study Program**

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
Economic Statistics	6020203063	Compulsory Study Program Subjects	T=3	P=0	ECTS=4.77	2	January 27, 2024
AUTHORIZATION	SP Developer		Course Cluster Coordinator			Study Program Coordinator	
	Clarashinta Canggih, S.E, CIFP		Dr. Ahmad Ajib Ridlwan, S.Pd., M.SEI.			Dr. Ahmad Ajib Ridlwan, S.Pd., M.SEI.	

Learning model	Case Studies
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Program Learning Outcomes (PLO)	PLO study program that is charged to the course																																																																																																					
	PLO-5	Mastering theoretical concepts in the fields of Islamic Economics, Islamic Business and Islamic Finance in general and specifically to solve problems procedurally in accordance with the scope of work.																																																																																																				
	Program Objectives (PO)																																																																																																					
	PO - 1	Able to apply the principle of responsibility in work																																																																																																				
	PO - 2	Able to analyze theories about statistics thoroughly																																																																																																				
	PO - 3	Able to make the right decisions based on information analysis and statistical data																																																																																																				
	PO - 4	Able to design research to solve problems in the field of Islamic economics																																																																																																				
	PLO-PO Matrix																																																																																																					
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Short Course Description	This course discusses descriptive statistics and inferential statistics. Descriptive statistics include the type, collection process, and presentation of data; measurement of central symptoms; dispersion measurements; index number; as well as trend analysis. Inferential statistics include probability; sampling and sampling distribution; statistical estimation; hypothesis testing; parametric and non-parametric comparative statistics. By studying this course, students are able to make appropriate decisions in the context of solving problems in their field of expertise, based on the results of information analysis and statistical data
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References	Main :
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- Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2022. BASIC STATISTICS FOR BUSINESS AND ECONOMICS: 10th edition. McGraw-Hill Education
- Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2020. Statistical Techniques in Business and Economics: 18th edition. McGraw-Hill Education
- Indrarini, Rachma; Canggih, Clarashinta; Nurafini, Fira, Maryam. 2023. STATISTIK UNTUK EKONOMI ISLAM 1. Nizamia Learning Center.
- Suharyadi & Purwanto, SK. 2015. Statistika untuk Ekonomi & Keuangan Modern(ed 3). Buku 1 dan 2. Penerbit Salemba Empat
- Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2018. Teknik-Teknik Statistika dalam Bisnis dan Ekonomi (Ed15). Buku 1 dan 2. Penerbit Salemba Empat
- Sugiyono. 2016. Statistika untuk Penelitian . Penerbit Alfabeta: Bandung
- Boedijoewono, Noegroho. 2014. Pengantar Statistika Ekonomi dan Bisnis 1: Deskriptif. UPP STIM YKPN
- Subagyo, Pangestu. 2012. Statistika Deskriptif. Yogyakarta:BPFE

Supporters:

- Septianda, D. E., & Canggih, C. (2023). Does Merger Affect BRIS Stock Performance? A Comparative Analysis. Jurnal Ekonomi Syariah Teori dan Terapan, 10(1).
- Nurafini, F. (2022). Studi Perbandingan Tingkat Kesehatan Bank Antara Bank Syariah dan Bank Konvensional di Indonesia Selama Pandemi Covid-19. Jurnal Ilmiah Ekonomi Islam, 8(3), 2690-2699.
- Canggih, C., Nurafini, F., Suryaningsih, S. A., Fikriyah, K., Indrarini, R., & Susilowati, F. D. (2022). ARE ISLAMIC BANKS STILL SOUND AMIDST PANDEMIC?. EL DINAR: Jurnal Keuangan dan Perbankan Syariah, 10(2), 114-129.

Supporting lecturer

Clarashinta Canggih, S.E., CIPP.
Yan Putra Timur, S.M., M.SEI.
Rachma Indrarini, S.El., M.SEI.
Fira Nurafini, S.El., M.SEI.

Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References]	Assessment Weight (%)
		Indicator	Criteria & Form	Offline (offline)	Online (online)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Examining the meaning of statistics	<ol style="list-style-type: none"> Able to study the meaning of statistics Able to examine types of statistics Able to examine types of data in statistics 	<p>Criteria: Participation Scoring Guidelines</p> <p>Form of Assessment : Participatory Activities</p>	Studying; Case Based Learning 3 X 50		<p>Material: 1. Understanding Statistics 2. Division of Statistics 3. Descriptive Statistics and Inferential Statistics 4. Division of Inferential Statistics 5. Parametric and Non-Parametric Statistics 6. Types of data</p> <p>References: <i>Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2018. Statistical Techniques in Business and Economics (Ed15), Books 1 and 2. Salemba Empat Publishers</i></p> <hr/> <p>Material: 1. Understanding Statistics 2. Division of Statistics 3. Descriptive Statistics and Inferential Statistics 4. Division of Inferential Statistics 5. Parametric and Non-Parametric Statistics 6. Types of data</p> <p>References:</p>	4%

						<p><i>Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2020. Statistical Techniques in Business and Economics: 18th edition. McGraw-Hill Education</i></p> <p>Material: 1. Understanding Statistics 2. Division of Statistics 3. Descriptive Statistics and Inferential Statistics 4. Division of Inferential Statistics 5. Parametric and Non-Parametric Statistics 6. Types of data</p> <p>Library: <i>Indrarini, Rachma; Sophisticated, Clarashinta; Nurafini, Fira, Maryam. 2023. STATISTICS FOR ISLAMIC ECONOMICS 1. Nizamia Learning Center</i></p>	
2	Analyze frequency distribution tables and diagrams	<ol style="list-style-type: none"> 1. Able to make a frequency table 2. Able to create frequency distributions 3. Able to make diagrams: histogram, bar graph, pie chart, polygon, ogive, pictogram 4. Able to analyze frequency distribution results and diagrams 	<p>Criteria: Participation Assessment Rubric</p> <p>Form of Assessment : Participatory Activities</p>	Studying; Case Based (Case Study - LKM) 3 X 50	3 X 50	<p>Material: 1. Frequency distribution table 2. One-way and two-way distribution table 3.</p> <p>Bibliography diagram: <i>Indrarini, Rachma; Sophisticated, Clarashinta; Nurafini, Fira, Maryam. 2023. STATISTICS FOR ISLAMIC ECONOMICS 1. Nizamia Learning Center.</i></p> <p>Materials: 1. Frequency table 2. Frequency distribution 3.</p> <p>Bibliography diagram: <i>Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2020. Statistical Techniques in Business and Economics: 18th edition. McGraw-Hill Education</i></p>	4%

3	Analyze measures of central tendency of data	<p>1. Able to calculate and analyze mean, median, mode for group data</p> <p>2. Able to calculate and analyze mean, median, mode for ungrouped data</p>	<p>Criteria: Quiz Grading Rubric</p> <p>Form of Assessment : Participatory Activities</p>	Lectures, Problem Based Learning - Doing Case Studies (LKM) 3 X 50		<p>Material: 1. Median, 2. Mode, 3. Percentiles, 4. Deciles, 5. Quartiles Literature: <i>Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3). Volume 1</i></p> <p>Material: 1. Mean 2. Median 3. Mode References: <i>Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2022. BASIC STATISTICS FOR BUSINESS AND ECONOMICS: 10th edition. McGraw-Hill Education</i></p> <p>Material: 1. Percentiles, 2. Deciles, 3. Quartiles Literature: <i>Indrarini, Rachma; Sophisticated, Clarashinta; Nurafini, Fira, Maryam. 2023. STATISTICS FOR ISLAMIC ECONOMICS 1. Nizamia Learning Center.</i></p> <p>Material: 1. Mean 2. Median 3. Mode References: <i>Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2020. Statistical Techniques in Business and Economics: 18th edition. McGraw-Hill Education</i></p>	5%
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4	Analyze measures of data dispersion	<p>1.Able to calculate: Percentiles, Deciles, Quartiles, Range, Quartile Range, Semi-quartile Range</p> <p>2.Able to calculate and analyze Range, Variance and Standard Deviation</p> <p>3.Able to calculate and analyze measures of skewness and kurtosis</p>	<p>Criteria: Assignment Grading Rubric</p> <p>Form of Assessment : Portfolio Assessment</p>	Lectures, Problem Based Learning and Case Studies (Case Based Learning) 3 X 50		<p>Material: 1. Relative Spread Measures 2. Other Spread Measures 3. Skewness 4. Kurtosis, References: <i>Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3). Volume 1</i></p> <p>Material: 1. Measures of Relative Spread 2. Other Measures of Spread 3. Skewness 4. Kurtosis Bibliography: <i>Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2020. Statistical Techniques in Business and Economics: 18th edition. McGraw-Hill Education</i></p>	3%
5	Analyze various types of Index Numbers	Analyze various types of index numbers (simple, aggregate simple, paasche, laspeyres, fisher, marshal edgeworth, value)	<p>Criteria: Participation Assessment Rubric</p> <p>Form of Assessment : Participatory Activities</p>	Lectures, Problem Based Learning and Case Studies (Case Based Learning) 3 X 50		<p>Material: index numbers (simple, simple aggregate, paasche, laspeyres, fisher, marshal edgeworth, value) References: <i>Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3). Books 1 and 2. Salemba Empat Publishers</i></p>	5%

6	Analyzing periodic series and forecasting (time series / trends)	<ol style="list-style-type: none"> 1. Analyzing types of time series analysis 2. Analyzing linear trends 3. Analyzing non-linear trends 	<p>Criteria: Assignment Grading Rubric</p> <p>Form of Assessment : Portfolio Assessment</p>	Lectures, Problem Based Learning and Case Studies (Case Based Learning) 3 X 50	WAG (Discussion) Google Meet (Materials and Case Studies)	<p>Material: Time Series Analysis Bibliography: <i>Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2020. Statistical Techniques in Business and Economics: 18th edition. McGraw-Hill Education</i></p> <hr/> <p>Material: Time Series Analysis Bibliography: <i>Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3). Books 1 and 2. Salemba Empat Publishers</i></p>	7%
7	Analyzing Periodic Series/Time Series	<ol style="list-style-type: none"> 1. Examining the meaning of Probability 2. Examining the types of probability 3. Examine the rules for calculating probability 4. Analyzing the probability value of an event 	<p>Criteria: Participation Assessment Rubric</p> <p>Form of Assessment : Participatory Activities</p>	Lectures and Quizzes 3 X 50	WAG (Discussion) Google Meet (Materials and Quizzes)	<p>Material: Probability References: <i>Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2020. Statistical Techniques in Business and Economics: 18th edition. McGraw-Hill Education</i></p> <hr/> <p>Material: Probability Bibliography: <i>Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2018. Statistical Techniques in Business and Economics (Ed15). Books 1 and 2. Salemba Empat Publishers</i></p>	5%

8	<p>1.Examining probability 2.Create distribution tables and diagrams 3.Analyze measures of central tendency of data 4.Analyze measures of data dispersion 5.Analyze various types of Index Numbers 6.Analyzing periodic series and forecasting (time series / trends) 7.Examining probability</p>	Exam Papers	<p>Criteria: UTS Assessment Rubric</p> <p>Form of Assessment : Test</p>	UTS 3 X 50			15%
9	Measuring sampling and sampling distribution	<p>1.Understand the meaning of Sampling Distribution 2. Understanding probability samples 3.Analyzing on Probability Samples 4.Analyze the sampling distribution of the mean 5.Analyze the sampling distribution of proportions 6.Analyze sampling distributions of differences and sums</p>	<p>Criteria: Assignment Grading Rubric</p> <p>Form of Assessment : Portfolio Assessment</p>	Lectures, Discussions and Working on Case Studies (LKM) 3 X 50		<p>Material: Sampling and sampling distribution References: <i>Indrarini, Rachma; Sophisticated, Clarashinta; Nurafini, Fira, Maryam. 2023. STATISTICS FOR ISLAMIC ECONOMICS 1. Nizamia Learning Center.</i></p> <hr/> <p>Material: Sampling and sampling distribution Reference: <i>Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3). Books 1 and 2. Salemba Empat Publishers</i></p>	3%
10	Analyze statistical estimates	<p>1.Understand and analyze the meaning and basic concepts of estimation 2.Understand and analyze Population Mean estimates 3.Understand and analyze population percentage estimates 4.Understand and analyze Population Variance estimates</p>	<p>Criteria: Participation Assessment Rubric</p> <p>Form of Assessment : Participatory Activities</p>	Lectures and Case Studies (Case Based Learning) 3 X 50	WAG (Discussion) Google Meet (Materials and Case Studies)	<p>Material: Concept of basic estimation, estimating the mean, estimating population percentages and estimating population variance. References: <i>Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3). Books 1 and 2. Salemba Empat Publishers</i></p>	6%

11	Analyzing Hypothesis Testing	<ol style="list-style-type: none"> 1. Understand the meaning of hypothesis 2. Understand the formulation of Hypothesis 3. Understand the General steps in Hypothesis Testing 4. Understand and analyze hypothesis testing regarding the mean with Large Samples ($n \geq 30$) 5. Understand and analyze hypothesis testing regarding the mean with Small Samples (n) 	<p>Criteria: Participation Assessment Rubric</p> <p>Form of Assessment : Participatory Activities</p>	Lectures and Case Studies (Case Based Learning) 3 X 50		<p>Material: Hypothesis Testing</p> <p>References: <i>Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2020. Statistical Techniques in Business and Economics: 18th edition. McGraw-Hill Education</i></p> <hr/> <p>Material: Hypothesis Testing</p> <p>References: <i>Suharyadi & Purwanto, SK. 2015. Statistics for Modern Economics & Finance (ed 3). Books 1 and 2. Salemba Empat Publishers</i></p> <hr/> <p>Material: Hypothesis Testing</p> <p>References: <i>Subagyo, Pangestu. 2012. Descriptive Statistics. Yogyakarta: BPFE</i></p>	6%
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12	Analyze Hypothesis Testing, Variance Analysis, Chi Square Test and other non-parametric statistics	<ol style="list-style-type: none"> 1. Able to understand and analyze hypothesis testing regarding proportions 2. Able to understand and analyze Two Mean Difference Hypothesis tests with Large Samples (n_1; $n_2 \geq 30$) 3. Able to understand and analyze Two Mean Difference Hypothesis tests with Small Samples (n_1; $n_2 < 30$) 4. Able to understand and analyze Two Mean Difference Hypothesis tests for Paired Observations 5. Able to understand and analyze the Two Proportion Difference Hypothesis test 	<p>Criteria: Participation Assessment Rubric</p> <p>Form of Assessment : Participatory Activities</p>	Studying; Doing Case Studies (LKM) - Case Based 3 X 50		<p>Material: Hypothesis Testing, Variance Analysis, Chi square test, Mann-Whitney test, Wilcoxon test, Friedman test and Kruskal-Wallis test</p> <p>Reader: <i>Sugiyono. 2016. Statistics for Research. Alphabeta Publisher: Bandung</i></p> <hr/> <p>Material: Hypothesis Testing, Variance Analysis, Chi square test, Mann-Whitney test, Wilcoxon test, Friedman test and Kruskal-Wallis test</p> <p>References: <i>Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2017. Statistical Techniques in Business and Economics, 17th Edition. McGraw-Hill Education</i></p>	5%
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13	Analyze Analysis of Variance, Chi Square Test and other non-parametric statistics	<ol style="list-style-type: none"> 1. Able to understand the meaning of Variance Analysis 2. Able to understand and analyze One Way Anova 3. Able to understand and analyze two-way Anova 	<p>Criteria: Participation Assessment Rubric</p> <p>Form of Assessment : Participatory Activities</p>	Lecture and Doing Case Studies (LKM) - Problem Based Learning 3 X 50	WAG (Discussion) Google Meet (Materials and Case Studies)	<p>Material: Hypothesis Testing, Variance Analysis, Chi square test, Mann-Whitney test, Wilcoxon test, Friedman test and Kruskal-Wallis test</p> <p>Reader: <i>Sugiyono. 2016. Statistics for Research. Alfabeta Publisher: Bandung</i></p> <hr/> <p>Material: Hypothesis Testing, Variance Analysis, Chi square test, Mann-Whitney test, Wilcoxon test, Friedman test and Kruskal-Wallis test</p> <p>References: <i>Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2017. Statistical Techniques in Business and Economics, 17th Edition. McGraw-Hill Education</i></p>	5%
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14	Analyze Analysis of Variance, Chi Square Test and other non-parametric statistics	<ol style="list-style-type: none"> 1. Able to understand the meaning of Variance Analysis 2. Able to understand and analyze One Way Anova 3. Able to understand and analyze two-way Anova 4. Able to understand the meaning of the Chi Square test 5. Able to calculate, understand and analyze Chi Square values 	<p>Criteria: Assignment Grading Rubric</p> <p>Form of Assessment : Portfolio Assessment</p>	Studying; Doing Case Studies (Problem Based) 3 X 50		<p>Material: Hypothesis Testing, Variance Analysis, Chi square test, Mann-Whitney test, Wilcoxon test, Friedman test and Kruskal-Wallis test</p> <p>Reader: <i>Sugiyono. 2016. Statistics for Research. Alfabeta Publisher: Bandung</i></p> <hr/> <p>Material: Hypothesis Testing, Variance Analysis, Chi square test, Mann-Whitney test, Wilcoxon test, Friedman test and Kruskal-Wallis test</p> <p>References: <i>Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2017. Statistical Techniques in Business and Economics, 17th Edition. McGraw-Hill Education</i></p>	7%
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15	Analyze Analysis of Variance, Chi Square Test and other non-parametric statistics	1.Able to understand and analyze the Mann-Whitney test 2.Able to understand and analyze the Wilcoxon test 3.Able to understand and analyze the Friedman test 4.Able to understand and analyze the Kruskal-Wallis test	Criteria: Participation Assessment Rubric Form of Assessment : Participatory Activities	Lectures and Case Based Learning 3 X 50		Material: Hypothesis Testing, Variance Analysis, Chi square test, Mann-Whitney test, Wilcoxon test, Friedman test and Kruskal-Wallis test Reader: <i>Sugiyono. 2016. Statistics for Research. Alfabeta Publisher: Bandung</i> Material: Hypothesis Testing, Variance Analysis, Chi square test, Mann-Whitney test, Wilcoxon test, Friedman test and Kruskal-Wallis test References: <i>Lind, Douglas A. Marchal, William G. and Wathen, Samuel A. 2017. Statistical Techniques in Business and Economics, 17th Edition. McGraw-Hill Education</i>	5%
16	1.Measuring sampling and sampling distribution 2.Analyze statistical estimates 3.Analyzing Hypothesis Testing 4.Analyze Hypothesis Testing, Variance Analysis, Chi Square Test and other non-parametric statistics	Exam Papers	Criteria: UAS Assessment Rubric Form of Assessment : Test	UAS	UAS		15%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	50%
2.	Portfolio Assessment	20%
3.	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.
- 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** 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 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.