



1. Course Identity

Course Name	Descriptive Statistics		
Faculty	Business and Economics	Study Program	Economics
Code	SIE333	Credit	3
Group	Economics Study Program	Course Status	Mandatory
Semester	3	Availability	Limited
Method	In-class	Media	Blended
Course Group	Mandatory Course	Prerequisite	Passed Descriptive Statistics
Lecturer	Indah Susantun Dra., M.Si.		

2. COURSE LEARNING OUTCOME

Code of GLO	Formulation of GLO	Code of CLO	Formulation of CLO	Indicators	Assignments/ Assessment/ Measurement/ Evaluation	Percentage
GLO E	Able to master quantitative reasoning to analyze the phenomena of business, finance, and economic development.	CLO E3	<p>Able to master quantitative reasoning in data collection, data location, and variation data in graphical data display</p> <p>Sub CLO E3-1: Students are able to present data descriptions correctly</p> <p>Sub CLO E3-2: Able to measure data center</p> <p>Sub CLO E3-3: Able to measure data variations</p> <p>Sub CLO E3-4: Able to determine forms of data distribution</p> <p>Sub CLO E3-5: Able to use data to do forecasting</p>	Having undertaken this course, students are able to make use of the descriptive statistic approach in analyzing the phenomena of business, finance, and economic development correctly.	Assignment Quiz Written-test	60%



		CLO E4	<p>Understand the estimation methodology and be able to use the computer software in the estimation</p> <p>Sub CLO E4-1: Able to apply index numbers correctly</p> <p>Sub CLO E4-2: Able to use computer software in the descriptive estimation</p>		<p>Assignment Quiz Written-test</p>	40%
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3. Learning Outcome Analysis Map

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4. Learning Experiences and References

Learning Experiences	<p>Students experience the following activities:</p> <ol style="list-style-type: none"> 1. Practices of using statistical test tools 2. Learning videos 3. Activities in the google classroom
References	<ol style="list-style-type: none"> 1. Agus Widarjono, 2015, <i>Statistika Terapan dengan Excel dan SPSS</i>, UPP-AMP YKPN, Yogyakarta. 2. Abdul Hakim, <i>Statistika Deskriptif untuk Ekonomika dan Bisnis</i>. Ekonisia, 2001 3. Pangestu Subagyo dan Djarwanto Ps., 2013, <i>Statistika Induktif</i>, BPFE-Yogyakarta. 4. Douglas A. Lind, William G. Marchal, & Samuel A. Wathen <i>Statistical Techniques in Business & Economics</i>

6. Learning Activities in Detail

Session	CLO/ Sub-CLO	Study Materials (Topic/ Sub-topic)	Method/ Learning Model	Implementation	References
1	Sub CLO E3-1	<ol style="list-style-type: none"> 1. Learning contract 2. Explanation of SLP 3. Statistic method 4. Data 	<p>Online Meeting/session: The lecturer informs the link to download the self-study module for students to study</p>	OM	[1], [2], [3], [4]



		5. Data Collection Method	The lecturer explains the data collection method		
2 & 3	Sub CLO E3-1:	Data Presentation; 1. Data Organization 2. Frequency Distribution 3. Stem and Leaf 4. Histogram 5. Polygon 6. Ogive 7. Bar Charts 8. Line Charts 9. Cross Tabulation	OM: The lecturer explains the rules of statistical data presentation Structured assignment: Students work on exercises in Google Classroom	OM	[1], [2], [3], [4]
4 & 5	Sub CLO E3-2	Measurement of Data Center 1. Definition of data center measurement 2. Method of data center measurement 2.1. Arithmetic mean 2.2. Weighted arithmetic mean 2.3. Geometric mean 2.4. Median 2.5. Mode 3. Location measurement method 3.1. Quartiles, Deciles, and Percentiles 4. Relationship between the arithmetic mean, median, and mode	OM: The lecturer explains the measurement of data center Structured assignment: Students work on exercises in Google Classroom	OM	[1], [2], [3], [4]
6		Quiz; Sub CLO E3 -1 Sub CLO E3-2 Practices of using the software; Excel & SPSS: Data presentation and data center measurement	OM: Exercises and their discussions	OM	[1], [2], [3], [4]
7	Sub CLO E3-3	Data variation measurement *Tested in final term-exam 1. Definition of data variation and its measurement objective 2. Kinds of data variation measurement 3. Method of data variation measurement 3.1. Range 3.2. Inter-quartile range 3.3. Average deviation 3.4. Variance and standard deviation	OM: The lecturer explains data variation measurement Structured assignment: Students work on exercises in Google Classroom	OM	[2], [3]



Mid-term exam					
8	Sub CLO E3-3	Measurement of the second variation; 1. Mid-term exam evaluation 2. Theorema Chebyshev 3. Relative variation: coefficient of variation	OM: The lecturer explains advanced data variation measurement Structured Assignment: Students work on exercises in Google Classroom	OM	[2], [3]
9	Sub CLO E3-4	Forms of Data Distribution 1. Types of data distribution 2. Measurement of skewness 3. Measurement of curvature	OM: The lecturer explains forms of data distribution Structured Assignment: Students work on exercises in Google Classroom	OM	[1], [2], [3], [4]
10 & 11	Sub CLO E4-1	Index numbers: 1. Concept of index numbers 2. Types of index numbers 3. Method of index numbers measurement 4. Some important price indices 5. Selection and change of base year Merging of two index number series with different base year	OM: The lecturer explains index numbers Structured Assignment: Students work on exercises in Google Classroom	OM	[1], [3], [4]
12 & 13	Sub CLO E3-5 Sub CLO E4-2	Time series analysis and forecasting: 1. Basic concepts of time series analysis 2. Components of a time series 3. Smoothing method 4. Trend method 5. Trend method and seasonal components 6. Regression method	OM: The lecturer explains time series analysis and forecasting Structured Assignment: Students work on exercises in Google Classroom	OM	[2]
14	Sub CLO E 4 – 2	Quiz and use of the software Eviews; Time series & Regression	OM: Exercises, discussions, applying software computer use	OM	[1], [4]
Final-term exam					

6. Evaluation and Assessment System

Assessment System	The assessment system used is a Criterion-referenced Assessment with the following range:					
	No.	Score	Grade	No	Score	Grade
	1	80.00 – 100.00	A	8	62.50 – 64.99	C+
	2	77.50 – 79.99	A-	9	60.00 – 62.49	C
	3	75.00 – 77.49	A/B	10	55.00 – 59.99	C-



6. Evaluation and Assessment System

4	72.50 – 74.99	B+	11	50.00 – 54.99	C/D
5	70.00 – 72.49	B	12	45.00 – 49.99	D+
6	67.50 – 69.99	B-	13	40.00 – 44.99	D
7	65.00 – 67.49	B/C	14	< 40.00	E

Evaluation System

Each student should achieve a minimum grade of C for each CLO. If the student fails, the student is required to do a remedial assignment/exam for the related CLO.

Date :

Approved by the Dean:

Date :

Checked by:

Date :

Prepared by:

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