



**Universitas Negeri Surabaya**  
**Faculty of Education,**  
**Early Childhood Education Teacher Education Undergraduate Study**  
**Program**

Document  
Code

**SEMESTER LEARNING PLAN**

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date																																																																		
Education Statistics	8620703127	Compulsory Study Program Subjects	T=3	P=0	ECTS=4.77	3	July 17, 2024																																																																		
AUTHORIZATION	SP Developer		Course Cluster Coordinator			Study Program Coordinator																																																																			
	Wulan Patria Saroinsong		Wulan Patria Saroinsong			Kartika Rinakit Adhe, S.Pd., M.Pd.																																																																			
Learning model	Case Studies																																																																								
Program Learning Outcomes (PLO)	PLO study program which is charged to the course																																																																								
	PLO-3	Develop logical, critical, systematic and creative thinking in carrying out specific work in their field of expertise and in accordance with work competency standards in the field concerned																																																																							
	PLO-4	Develop yourself continuously and collaborate.																																																																							
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	PO - 2	Develop yourself continuously and collaborate.																																																																							
	PLO-PO Matrix																																																																								
		<table border="1" style="width: 100%; text-align: center;"> <tr> <td>P.O</td> <td>PLO-3</td> <td>PLO-4</td> <td colspan="4"></td> </tr> <tr> <td>PO-1</td> <td>✓</td> <td>✓</td> <td colspan="4"></td> </tr> <tr> <td>PO-2</td> <td>✓</td> <td>✓</td> <td colspan="4"></td> </tr> </table>						P.O	PLO-3	PLO-4					PO-1	✓	✓					PO-2	✓	✓																																																	
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PO Matrix at the end of each learning stage (Sub-PO)																																																																									
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PO-2									✓	✓	✓	✓	✓	✓																																																											
Short Course Description	This course examines the basic concepts of descriptive, inferential, parametric and non-parametric statistics, as well as the use of simple formulas for analyzing practical statistical problems through scientific learning. Learning methods Lectures, case studies, group discussions, and surveys.																																																																								
References	Main :																																																																								
	<ol style="list-style-type: none"> <li>1. Winarsunu, Tulus. 2008. Statistik dalam Penelitian dan Psikologi. Malang: UMM Press.</li> <li>2. Hadi, S. 2007. Statistik Pendidikan. Yogyakarta: Gajahmada University Press.</li> <li>3. Imam Ghozali, M. 2001. Aplikasi Analisis Multi Variat dengan Program SPSS. Badan Penerbit Universitas Diponegoro</li> <li>4. Syaifudin Azwar. 1996. Tes Prestasi dan Fungsi Pengembangan dan Pengukuran. Yogyakarta: Pustaka Pelajar.</li> <li>5. Sukardi, Metodologi Penelitian Pendidikan, Jakarta: PT. Bumi Aksara, 2015.</li> <li>6. Morissan, 2016. Metode penelitian Survei, Jakarta: Kencana</li> </ol>																																																																								
	Supporters:																																																																								
Supporting lecturer	Wulan Patria Saroinsong, S.Psi., M.Pd., Ph.D.																																																																								
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	Mastering the Basic Concepts of Statistics	<ol style="list-style-type: none"> <li>1.Explain the meaning of statistics</li> <li>2.Explain various types of statistical classifications</li> <li>3.Explain the function of statistics in research</li> </ol>	<p><b>Criteria:</b> 8. Neatness of layout</p> <p><b>Form of Assessment :</b> Participatory Activities</p>	Lectures, case studies, group discussions, and 2 X 50 surveys	Lectures, case studies, group discussions, and 2 X 50 surveys	<p><b>Material:</b> Students observe the lecturer's explanation regarding basic statistical concepts. Students are given several cases by the lecturer, and students can classify several types of <b>library statistical classifications:</b> <i>Winarsunu, Tulus. 2008. Statistics in Research and Psychology. Malang: UMM Press.</i></p> <p><b>Material:</b> Students are given several research cases by the lecturer, and students can explain the function of statistics in research.</p> <p><b>References:</b> <i>Imam Ghozali, M. 2001. Application of Multi Variable Analysis with the SPSS Program. Diponegoro University Publishing Agency</i></p>	2%
2	Mastering the concepts of population and sample	<ol style="list-style-type: none"> <li>1.Explain the meaning of statistics</li> <li>2.Explain various types of statistical classifications</li> <li>3.Explain the function of statistics in research</li> </ol>	<p><b>Form of Assessment :</b> Participatory Activities</p>	Lectures, case studies, group discussions, and 2 X 50 surveys	Lectures, case studies, group discussions, and 2 X 50 surveys	<p><b>Material:</b> Students observe the lecturer's explanation regarding basic statistical concepts. Students are given several cases by the lecturer, and students can classify several types of <b>library statistical classifications:</b> <i>Winarsunu, Tulus. 2008. Statistics in Research and Psychology. Malang: UMM Press.</i></p> <p><b>Material:</b> Students are given several research cases by the lecturer, and students can explain the function of statistics in research.</p> <p><b>References:</b> <i>Imam Ghozali, M. 2001. Application of Multi Variable Analysis with the SPSS Program. Diponegoro University Publishing Agency</i></p>	3%

3	Mastering the Basic Concepts of Statistics	<ol style="list-style-type: none"> <li>1.Explain the meaning of statistics</li> <li>2.Explain various types of statistical classifications</li> <li>3.Explain the function of statistics in research</li> </ol>	<p><b>Criteria:</b> Students are able to master the basic concepts of statistics</p> <p><b>Form of Assessment :</b> Participatory Activities</p>	Lectures, case studies, group discussions, and 2 X 50 surveys	Lectures, case studies, group discussions, and 2 X 50 surveys	<p><b>Material:</b> Students observe the lecturer's explanation regarding basic statistical concepts. Students are given several cases by the lecturer, and students can classify several types of <b>library statistical classifications:</b> <i>Winarsunu, Tulus. 2008. Statistics in Research and Psychology. Malang: UMM Press.</i></p> <p><b>Material:</b> Students are given several research cases by the lecturer, and students can explain the function of statistics in research.</p> <p><b>References:</b> <i>Imam Ghozali, M. 2001. Application of Multi Variable Analysis with the SPSS Program. Diponegoro University Publishing Agency</i></p>	2%
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7	Mastering the Basic Concepts of Statistics	<ol style="list-style-type: none"> <li>1.Explain the meaning of statistics</li> <li>2.Explain various types of statistical classifications</li> <li>3.Explain the function of statistics in research</li> </ol>	<p><b>Criteria:</b> Students are able to master the basic concepts of statistics</p> <p><b>Form of Assessment :</b> Participatory Activities</p>	Lectures, case studies, group discussions, and 2 X 50 surveys	Lectures, case studies, group discussions, and 2 X 50 surveys	<p><b>Material:</b> Students observe the lecturer's explanation regarding basic statistical concepts. Students are given several cases by the lecturer, and students can classify several types of <b>library statistical classifications:</b> <i>Winarsunu, Tulus. 2008. Statistics in Research and Psychology. Malang: UMM Press.</i></p> <p><b>Material:</b> Students are given several research cases by the lecturer, and students can explain the function of statistics in research.</p> <p><b>References:</b> <i>Imam Ghozali, M. 2001. Application of Multi Variable Analysis with the SPSS Program. Diponegoro University Publishing Agency</i></p>	2%
8	Mastering the Basic Concepts of Statistics	<ol style="list-style-type: none"> <li>1.Explain the meaning of statistics</li> <li>2.Explain various types of statistical classifications</li> <li>3.Explain the function of statistics in research</li> </ol>	<p><b>Criteria:</b> Students are able to answer questions correctly</p> <p><b>Form of Assessment :</b> Participatory Activities, Tests</p>	Written/Summative Test 100 Minutes	Written/Summative test	<p><b>Material:</b> Students observe the lecturer's explanation regarding basic statistical concepts. Students are given several cases by the lecturer, and students can classify several types of <b>library statistical classifications:</b> <i>Winarsunu, Tulus. 2008. Statistics in Research and Psychology. Malang: UMM Press.</i></p> <p><b>Material:</b> Students are given several research cases by the lecturer, and students can explain the function of statistics in research.</p> <p><b>References:</b> <i>Imam Ghozali, M. 2001. Application of Multi Variable Analysis with the SPSS Program. Diponegoro University Publishing Agency</i></p>	15%

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10	Mastering the Basic Concepts of Statistics	<ol style="list-style-type: none"> <li>1.Explain the meaning of statistics</li> <li>2.Explain various types of statistical classifications</li> <li>3.Explain the function of statistics in research</li> </ol>	<b>Criteria:</b> Students are able to master the basic concepts of statistics  <b>Form of Assessment :</b> Participatory Activities	Lectures, case studies, group discussions, and 2 X 50 surveys	Lectures, case studies, group discussions, and 2 X 50 surveys	<b>Material:</b> Students observe the lecturer's explanation regarding basic statistical concepts. Students are given several cases by the lecturer, and students can classify several types of <b>library statistical classifications:</b> <i>Winarsunu, Tulus. 2008. Statistics in Research and Psychology. Malang: UMM Press.</i> <hr/> <b>Material:</b> Students are given several research cases by the lecturer, and students can explain the function of statistics in research. <b>References:</b> <i>Imam Ghozali, M. 2001. Application of Multi Variable Analysis with the SPSS Program. Diponegoro University Publishing Agency</i>	3%

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12	Mastering the Basic Concepts of Statistics	<ol style="list-style-type: none"> <li>1.Explain the meaning of statistics</li> <li>2.Explain various types of statistical classifications</li> <li>3.Explain the function of statistics in research</li> </ol>	<p><b>Criteria:</b> Students are able to master the basic concepts of statistics</p>	Lectures, case studies, group discussions, and 2 X 50 surveys	Lectures, case studies, group discussions, and 2 X 50 surveys	<p><b>Material:</b> Students observe the lecturer's explanation regarding basic statistical concepts. Students are given several cases by the lecturer, and students can classify several types of <b>library statistical classifications:</b> <i>Winarsunu, Tulus. 2008. Statistics in Research and Psychology. Malang: UMM Press.</i></p> <hr/> <p><b>Material:</b> Students are given several research cases by the lecturer, and students can explain the function of statistics in research. <b>References:</b> <i>Imam Ghozali, M. 2001. Application of Multi Variable Analysis with the SPSS Program. Diponegoro University Publishing Agency</i></p>	2%

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14	Mastering the Basic Concepts of Statistics	<ol style="list-style-type: none"> <li>1.Explain the meaning of statistics</li> <li>2.Explain various types of statistical classifications</li> <li>3.Explain the function of statistics in research</li> </ol>	<p><b>Criteria:</b> Students are able to master the basic concepts of statistics</p> <p><b>Form of Assessment :</b> Participatory Activities</p>	Lectures, case studies, group discussions, and 2 X 50 surveys	Lectures, case studies, group discussions, and 2 X 50 surveys	<p><b>Material:</b> Students observe the lecturer's explanation regarding basic statistical concepts. Students are given several cases by the lecturer, and students can classify several types of <b>library statistical classifications:</b> <i>Winarsunu, Tulus. 2008. Statistics in Research and Psychology. Malang: UMM Press.</i></p> <p><b>Material:</b> Students are given several research cases by the lecturer, and students can explain the function of statistics in research.</p> <p><b>References:</b> <i>Imam Ghozali, M. 2001. Application of Multi Variable Analysis with the SPSS Program. Diponegoro University Publishing Agency</i></p>	10%
15	Students understand the	1.Students	<b>Criteria:</b>	Lectures, case studies, group	Lectures, case studies, group discussions, and		10%



	<p>lecture material and process for 1 semester. Students understand the basic concepts of statistics. Students understand centralized measurements. Students understand quartile measurements. Students understand decile measurements. Students understand percentile measurements. Students understand average deviation measurements. Students understand standard deviation and variance measurements. Students understand standard number measurements. Students understand data distribution skew measurements. Students understand distribution slope measurements. Data</p>	<p>understand the lecture material for 1 semester  2.Understand the basic concepts of Statistics  3.Measurement scale  4.understand mean centered measurement  5.can interpret the results of average calculations  6.understand median centered measurement  7.can interpret the results of median calculations  8.understand centralized measurement mode  9.can interpret the results of mode calculations  10.understand quartile measurements  11.can interpret the results of quartile calculations  12.understand quartile measurements  13.can interpret the results of quartile calculations  14.understand decile measurements  15.can interpret the results of decile calculations  16.understand percentile measurements  17.can interpret the results of percentile calculations  18.understand the measurement of Average Deviation  19.can interpret the results of the Average Deviation calculation  20.understand the measurement of Standard Deviation and Variance  21.can interpret the results of Standard Deviation and Variance calculations  22.understand Standard Number measurements and be able to interpret the results of Standard Number calculations  23.understand</p>	<p>1.Activeness (quantity of participating)  2.Organization of ideas/arguments  3.Accuracy of argument  4.Language Usage:  5.Accuracy  6.Clarity  7.Attitude and intonation during discussion/question and answer (voice-expression, volume and intonation)  8.A. Contents  9.1. Accuracy of concept/material  10.2. Accuracy of supporting examples for the concept/material  11.3. Completeness of material coverage  12.4. Confusion in discussing the material  13.5. Depth in elaborating the material  14.B. Writing  15.6. Correct use of language  16.7. Conformity with the specified systematics  17.8. Neatness of layout</p> <p><b>Form of Assessment :</b>  Practice / Performance</p>	<p>discussions, and  2 X 50 surveys</p>	<p>2 X 50 surveys</p>		
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		<p>the measurement of Data Distribution Skewness</p> <p>24.interpret the results of data distribution slope calculations</p> <p>25.understand the measurement of Data Distribution Spiralness</p> <p>26.interpreting the calculation results of Data Distribution Spiralness</p>				
16		Do the questions correctly	<p><b>Criteria:</b> Students are able to answer questions correctly</p> <p><b>Form of Assessment :</b> Test</p>	Written/Summative Exam 2 X 50	Written/Summative Exam 2 X 50	15%

#### Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	39.5%
2.	Practice / Performance	10%
3.	Test	22.5%
		72%

#### 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.
- 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.
- 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** 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.
- 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.
- Forms of assessment:** test and non-test.
- 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.
- 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.