

Universitas Negeri Surabaya Faculty of Sports and Health Sciences Bachelor of Sports Science Study Program

Document Code

UNESA	•											
	SEMESTER LEARNING PLAN											
Courses				CODE		Course Fa	amily		dit Weight		SEMESTER	Compilation Date
Statistics	6			8920102169				T=3	P=0 ECTS=4	4.77	3	July 17, 2024
AUTHORI	IZAT	ION		SP Developer		ł	Cou	rse Clus	ster Coordinate	or	Study Progra Coordinator	am
										Dr. Heri Wahyudi, S.Or., M.Pd.		
Learning model		Case Studies										
Program Learning	1	PLO study pro	ogram th	at is charged to t	he course							
Outcome	es	Program Obje	ctives (F	90)								
(1 20)	-	PLO-PO Matri	х									
				P.0	٥.٥							
		PO Matrix at the end of each learning stage (Sub-PO)										
		P.O Week										
				1 2 3	4 5	6 7	8 9	10	11 12	13	14 15	5 16
Short Course Descripti	ion	This course is analytical prerea	lesigned t quisite tes	to examine various ts, parametric statis	statistical con tical tests and	cepts applied non-parame	d in the fiel tric statistic	d of spo al tests v	orts science. In will be discussed	this c d.	course, descrip	otive statistics,
Reference	ces	Main :										
	 Gudono. 2012. Analisis Data Multivariat Edisi Kedua. Yogyakarta: BPFE Maksum, A. 2018. Statistik dalam Olahraga . Surabaya: Unesa Press Rosner, B. 2015. Fundamental of Biostatistic, 8th Edition. Boston: Cengage Learning Inc Sugiono. 2010. Statistik untuk Penelitian. Jakarta: Alfabeta Wahana Komputer. 2012. Solusi Prakatis dan Mudah Menguasai SPSS 20 untuk Pengolahan Data. Yogyakarta: Andi Offset Weiss, N. A. 2017 Elementary Statistic 10th Edition. Boston: Pearson 							Offset				
		Supporters:										
Supporting lecturer Verty Septiani Mustar, S. Anjindva Mar'atus Sholiki			ati, M.S. lodo, M.K i, S.K.M., lustar, S.H is Sholikh	es. M.K.M. KM., M.P.H. ah, S.KM., M.Kes.								
Week-		al abilities of h learning je		Evaluation			Help Learnin Learning metho Student Assignn [Estimated tir		arning, methods, signments, ted time]		Learning materials [References	Assessment Weight (%)
	(Sul	0-PO)		Indicator	Criteria &	Form	Offline(offline)	C	Online (<i>online</i>))]	
(1)		(2)		(3)	(4)		(5)		(6)		(7)	(8)

1	Able to describe objects, symptoms and events in everyday life statistically	 Distinguish the concepts of statistics and statistics correctly Understand the concepts of population and sample and terms in descriptive statistics 	Criteria: 1. The assessment is carried out on the following aspects: 2. Participation during lectures is carried out through observation and is given weight. Subumative test (UTS) is carried out once with indicators 1-7 through a written test and given weight. UAS grades are carried out in writing with indicators 9-15 given a weight. The final NA is [(participation value x 2) (UTS value x 2) (assignment value x 3)] divided by 10	Face-to-face meetings / virtual conferences, discussions, independent study (assignment to read material) 2 X 50		0%
2	Able to describe objects, symptoms and events in everyday life statistically	 Understand the concepts of population and sample Understand the concept of variables Understand and distinguish types of data scales appropriately 	Criteria: 1.The assessment is carried out on the following aspects: 2.Participation during lectures is carried out through observation and is given weight. Subumative test (UTS) is carried out once with indicators 1-7 through a written test and given weight. UAS grades are carried out in writing with indicators 9-15 given a weight. The final NA is [(participation value x 2) (UTS value x 3)] divided by 10	Videos, quizzes, reading assignments, and independent study 2 X 50		0%

3	Able to calculate the size of centralization and size of data spread	 Calculate central tendency (mean, mode, median, quartiles), standard deviation and variance correctly Create a frequency distribution table Presenting data into various graphs/diagrams correctly 	Criteria: 1.The assessment is carried out on the following aspects: 2.Participation during lectures is carried out through observation and is given weight. Subumative test (UTS) is carried out once with indicators 1-7 through a written test and given weight. UAS grades are carried out in writing with indicators 9-15 given a weight. The final NA is [(participation value x 2) (UTS value x 2)] (assignment value x 3)] divided by 10	Face-to-face meetings / virtual conferences, lectures, discussions, 2 X 50 group assignments		0%
4	Able to calculate the size of centralization and size of data spread	 Calculate central tendency (mean, mode, median, quartiles), standard deviation and variance correctly Create a frequency distribution table Presenting data into various graphs/diagrams correctly 	Criteria: 1.The assessment is carried out on the following aspects: 2.Participation during lectures is carried out through observation and is given weight. Subumative test (UTS) is carried out once with indicators 1-7 through a written test and given weight. UAS grades are carried out in writing with indicators 9-15 given a weight. The final NA is [(participation value x 2) (UTS value x 3) (UAS value x 3)] divided by 10	Structured group assignments and independent study 2 X 50		0%

5	Able to test the prerequisites for parametric statistical test analysis and able to interpret the results	 Understand the concept and purpose of normality testing Perform normality tests and interpret the results correctly 	Criteria: 1.The assessment is carried out on the following aspects: 2.Participation during lectures is carried out through observation and is given weight. Subumative test (UTS) is carried out once with indicators 1-7 through a written test and given weight. UAS grades are carried out in writing with indicators 9-15 given a weight. The final NA is [(participation value x 2) (UTS value x 2) (assignment value x 3)] divided by 10	Face-to-face meetings / virtual conferences, discussions, structured assignments, independent study 2 X 50		0%
6	Able to test the prerequisites for parametric statistical test analysis and be able to interpret them	 Understand the concept and purpose of homogeneity testing Perform homogeneity tests and interpret the results correctly 	Criteria: 1. The assessment is carried out on the following aspects: 2. Participation during lectures is carried out through observation and is given weight. Subumative test (UTS) is carried out once with indicators 1-7 through a written test and given weight. UAS grades are carried out in writing with indicators 9-15 given a weight. The final NA is [(participation value x 2) (UTS value x 2) (assignment value x 3)] divided by 10	Structured group assignments, quizzes and independent study 2 X 50		0%

7	Able to test the prerequisites for parametric statistical test analysis and be able to interpret them	 Understand the concept and purpose of data linearity testing Perform linearity tests and interpret the results correctly 	Criteria: 1.The assessment is carried out on the following aspects: 2.Participation during lectures is carried out through observation and is given weight. Subumative test (UTS) is carried out once with indicators 1-7 through a written test and given weight. UAS grades are carried out in writing with indicators 9-15 given a weight. The final NA is [(participation value x 2) (UTS value x 2) (assignment value x 3)] divided by 10	Face-to-face meetings / virtual conferences, presentations, and independent study 2 X 50		0%
8	MIDTERM EXAM			Presentation of group assignments 2 X 50		0%
9	Carrying out parametric statistical tests to analyze data and interpret it	 Understand the concepts and objectives of parametric statistics Distinguish between types of parametric statistical tests and be able to choose the right test Understand and analyze differences between two groups using paired t-test and independent t-test Understand and analyze differences > 2 groups using ANOVA one way Understand and analyze the relationship between two variables using the Pearson's product moment correlation test Carry out prediction tests using regression analysis Able to interpret the results of parametric test analysis 	Criteria: 1. The assessment is carried out on the following aspects: 2. Participation during lectures is carried out through observation and is given weight. Subumative test (UTS) is carried out once with indicators 1-7 through a written test and given weight. UAS grades are carried out in writing with indicators 9-15 given a weight. The final NA is [(participation value x 2) (UTS value x 3) (UAS value x 3)] divided by 10	Face-to-face meetings / virtual conferences, lectures, discussions, quizzes, (indicators 1 and 2) and independent study 2 X 50		0%

10	Carrying out parametric statistical tests to analyze data and interpret it	 Understand the concepts and objectives of parametric statistics Distinguish between types of parametric statistical tests and be able to choose the right test Understand and analyze differences between two groups using paired t-test and independent t-test Understand and analyze differences > 2 groups using ANOVA one way Understand and analyze the relationship between two variables using the Pearson's product moment correlation test Carry out prediction tests using regression analysis Able to interpret the results of parametric test analysis 	Criteria: 1. The assessment is carried out on the following aspects: 2. Participation during lectures is carried out through observation and is given weight. Subumative test (UTS) is carried out once with indicators 1-7 through a written test and given weight. UAS grades are carried out in writing with indicators 9-15 given a weight. The final NA is [(participation value x 2) (UTS value x 2) (assignment value x 3)] divided by 10	Video tutorials for indicators 3 and 7, reading assignments, and independent study 2 X 50		0%
11	Carrying out parametric statistical tests to analyze data and interpret it	 Understand the concepts and objectives of parametric statistics Distinguish between types of parametric statistical tests and be able to choose the right test Understand and analyze differences between two groups using paired t-test and independent t-test Understand and analyze differences > 2 groups using ANOVA one way Understand and analyze the relationship between two variables using the Pearson's product moment correlation test Carry out prediction test using regression analysis Able to interpret the results of parametric test analysis 	Criteria: 1. The assessment is carried out on the following aspects: 2. Participation during lectures is carried out through observation and is given weight. Subumative test (UTS) is carried out once with indicators 1-7 through a written test and given weight. UAS grades are carried out in writing with indicators 9-15 given a weight. The final NA is [(participation value x 2) (UTS value x 3) (UAS value x 3)] divided by 10	Face-to-face meetings / virtual conferences, lectures, discussions (indicators 4 and 7), and independent study 2 X 50		0%

12	Carrying out parametric statistical tests to analyze data and interpret it	 Understand the concepts and objectives of parametric statistics Distinguish between types of parametric statistical tests and be able to choose the right test Understand and analyze differences between two groups using paired t-test and independent t-test Understand and analyze differences > 2 groups using ANOVA one way Understand and analyze the relationship between two variables using the Pearson's product moment correlation test Carry out prediction tests using regression analysis Able to interpret the results of parametric test analysis 	Criteria: 1. The assessment is carried out on the following aspects: 2. Participation during lectures is carried out through observation and is given weight. Subumative test (UTS) is carried out once with indicators 1-7 through a written test and given weight. UAS grades are carried out in writing with indicators 9-15 given a weight. The final NA is [(participation value x 2) (UTS value x 3) (UAS value x 3)] divided by 10	Structured group assignments (indicators 5 and 7) and independent study 2 X 50		0%
13	Carrying out parametric statistical tests to analyze data and interpret it	 Understand the concepts and objectives of parametric statistics Distinguish between types of parametric statistical tests and be able to choose the right test Understand and analyze differences between two groups using paired t-test and independent t-test Understand and analyze differences > 2 groups using ANOVA one way Understand and analyze the relationship between two variables using the Pearson's product moment correlation test Carry out prediction tests using regression analysis Able to interpret the results of parametric test analysis 	Criteria: 1. The assessment is carried out on the following aspects: 2. Participation during lectures is carried out through observation and is given weight. Subumative test (UTS) is carried out once with indicators 1-7 through a written test and given weight. UAS grades are carried out in writing with indicators 9-15 given a weight. The final NA is [[participation value x 2) (UTS value x 2) (assignment value x 3)] divided by 10	Face-to-face meetings / virtual conferences, lectures, discussions, assignments to read material (indicators 6 and 7) and independent study 2 X 50		0%

14	Carrying out non- parametric statistical tests to analyze data that does not meet the prerequisites for parametric tests and their interpretation	 Understand the concepts and objectives of non- parametric statistics Analyzing differences for dependent and non-dependent samples that are not normally distributed Analyze the relationship/correlation between two variables that are not normally distributed Interpret analysis results appropriately 	Criteria: 1.The assessment is carried out on the following aspects: 2.Participation during lectures is carried out through observation and is given weight. Subumative test (UTS) is carried out once with indicators 1-7 through a written test and given weight. UAS grades are carried out in writing with indicators 9-15 given a weight. The final NA is [(participation value x 2) (UTS value x 3)] divided by 10	Indicator 1 tutorial videos, quizzes, structured assignments, and 2 X 50 independent learning		0%
15	Carrying out non- parametric statistical tests to analyze data that does not meet the prerequisites for parametric tests and their interpretation	 Understand the concepts and objectives of non- parametric statistics Analyzing differences for dependent and non-dependent samples that are not normally distributed Analyze the relationship/correlation between two variables that are not normally distributed Interpret analysis results appropriately 	Criteria: 1.The assessment is carried out on the following aspects: 2.Participation during lectures is carried out through observation and is given weight. Subumative test (UTS) is carried out once with indicators 1-7 through a written test and given weight. UAS grades are carried out in writing with indicators 9-15 given a weight. The final NA is [(participation value x 2) (UTS value x 2) (assignment value x 3)] divided by 10	Face-to-face meetings / virtual conferences, lectures, discussions, assignments to read material (indicators 2- 4) and independent study 2 X 50		0%
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 Evaluation Percentage Recap: Case Study

 No
 Evaluation

 Percentage

 0%

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.
- 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 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.
- 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 which topics
- 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.