

Universitas Negeri Surabaya Faculty of Sports and Health Sciences, Bachelor of Physical Education, Health & Recreation Study Program

Document Code

SEMESTER LEARNING PLAN

Courses		CODE	CODE		Family		Crec	Credit Weight			SEMES	STER	Compila Date	tion
Statistics		8520103182	8520103182		Compulsory Study Program Subjects		T=3	P=0	ECTS=4	1.77	6	6	April 29, 2023	
AUTHORIZATION		SP Develop	er			Cours	se Clus	ster Co	oordinate	or	Study Program Coordinator		nator	
		Dr. Nur Ahm	Dr. Nur Ahmad Arief, M.Pd.			Prof. Ali Maksum, M.Si				Dr. Mochamad Ridwan, S.Pd., M.Pd.				
Learning model	Case Studies													
Program	PLO study prog	ram that is cha	rged to the	e course	•									
Learning Outcomes	Program Object	ives (PO)												
(PLO)	PO-1 T	his course discus oth descriptive a esults which can	sses theoret nd inferentia be applied to	ical under al statistic complet	rstanding s, to proc e a thesis	and ma ess res	stery a earch	s well data a	as the ap Ind draw	oplicat concl	tion of v usions	arious s from the	statistical t e interpret	tests, tation
	PLO-PO Matrix													
		P.0												
		PO-1	PO-1											
	PO Matrix at the end of each learning stage (Sub-PO)													
		P.0	P.O			Week								
			1 2	3 4	56	7	8 9	9 10	0 11	12	13	14	15 16	
		PO-1												
Short Course Description	This course discusses theoretical understanding and mastery as well as the application of various statistical tests, both descriptiv and inferential statistics, to process research data and draw conclusions from the interpretation results which can be applied t complete a thesis.						iptive ed to							
References	Main :													
	 Maksum,Ali, 2007, Buku Ajar Statistik dalamOlahraga, Jurusan Pendidikan Olahraga-Unesa, Surabaya Sabri, Luknis. dan Hastowo, Sutanto Priyo. , 2006, Statistik Kesehatan, Jakarta, Raja Grafindo Press Hastowo, Sutanto Priyo, 2006, Managemen dan Analisis Data, FakultasKesehatan Masyarakat-UI, Depok Boslaugh, Sarah and Watter,Paul Andrew, 2008. Statistics in aNutshell : A Desktop Quick Reference, Sebastopol Canada, O 19Reilly Field, Andy, 2009. DiscoveringStatistic Using SPSS, London. SAGE Publication. Mann,Prem S. , 2010. Introductory Statistics7th , Hoboken-USA. John Wiley & Sons, Inc. 							nada,						
	Supporters:													
	 Hendikawa Musdansi, Mahasiswa Taqwa, M Belajar Https://Doi 	ati, P. (2012). Pe D. P., & Nazli a. 8(2), 147–158 ., & Taufik, A. (2 Dan Per i.Org/10.31100/H	ngembanga , R. (2012) 019). Pengo nahaman. listogram.V3	n Buku A). Pengei embangai Histo Bi2.449	jar Statisti mbangan n Buku Aj gram:	ka Berb Buku 7 ar Stati Jurna	oasis S Ajar St stika D I	pss. 8(atistik Dengar Pendio	(2), 163–1 a Berbas n Softwar dikan	174. sis Sp e R L Mat	oss Se Jntuk M tematika	bagai S 1eningka a,	Self Educa atkan Mot 3(2),	ation tivasi 122.
Supporting lecturer	Prof. Dr. Ali Maksu Dr. Nur Ahmad Ari Kolektus Oky Rista	ım, S.Pd., M.Si. ef, S.Pd., M.Pd. anto, S.Pd., M.Pd	1.											

Week-	Final abilities of each learning stage	E	valuation	He Lear Stude [Es	elp Learning, ning methods, nt Assignments, stimated time]	Learning materials	Assessment Weight (%)
	(Sub-PO)	Indicator	Criteria & Form	Offline (Online (online) offline)		1	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Able to explain the meaning of functions, types and basics of statistical analysis	- Explain the meaning of functions and types of statistics - Explain the basics of statistical analysis (Data, - Variables, Hypothesis, Population, Sample and measurement scale)	Criteria: score 4 if done very well score 3 if done well score 2 if done fairly score 1 if not done Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Tests	Lectures, assignments, group discussions, class discussions 2 x 50		Material: Understanding the function, types and basics of statistical analysis. Reference: <i>Maksum, Ali,</i> 2007, <i>Textbook of</i> <i>Statistics in</i> <i>Sports,</i> <i>Department of</i> <i>Sports</i> <i>Education,</i> <i>Unesa,</i> <i>Surabaya</i>	9%
2	Skilled in creating and calculating Frequency Distributions and Measurement Norms on statistical data	Able to create and calculate Frequency Distributions and Measurement Norms on statistical data	Criteria: score 4 if done very well score 3 if done well score 2 if done fairly score 1 if not done Form of Assessment : Participatory Activities	Lectures, assignments, group discussions, class discussions 3 x 50		Material: Creating and calculating Frequency Distributions and Measurement Norms on statistical data Reference: Maksum, Ali, 2007, Textbook of Statistics in Sports, Department of Sports Education- Unesa, Surabaya	5%
3	Skilled in creating and calculating Central Tendency and Variability in statistical data	Able to create and calculate Central Tendency and Variability in statistical data	Criteria: score 4 if done very well score 3 if done well score 2 if done fairly score 1 if not done Form of Assessment : Participatory Activities, Practice/Performance	Lectures, assignments, group discussions, class discussions 2 x 50		Material: Central Tendency and Variability in statistical data Reference: Maksum, Ali, 2007, Textbook of Statistics in Sports, Department of Sports Education- Unesa, Surabaya	5%
4	Skilled in processing and interpreting descriptive tests and data requirements using SPSS	Able to process and interpret descriptive tests and data requirements including normality, homogeneity and linearity using SPSS	Criteria: score 4 if done very well score 3 if done well score 2 if done fairly score 1 if not done Form of Assessment : Participatory Activities, Practice/Performance	Lectures, assignments, group discussions, class discussions 2 x 50		Material: processing and interpreting descriptive tests and data requirements using SPSS Library: Sabri, Luknis. and Hastowo, Sutanto Priyo. , 2006, Health Statistics, Jakarta, Raja Grafindo Press	5%

5	Skilled in processing and interpreting Paired Sample T-Test using SPSS	Able to process and interpret Paired Sample T- Test using SPSS	Criteria: score 4 if done very well score 2 if done fairly score 1 if not done Form of Assessment : Participatory Activities, Practice/Performance	Lectures, assignments, group discussions, class discussions 2 x 50	Material: processing and interpreting Paired Sample T- Test using spss Reference: Maksum, Ali, 2007, Textbook of Statistics in Sports, Department of Sports Education- Unesa, Surabaya	5%
6	Skilled in processing and interpreting Independent Samples using SPSS	Able to process and interpret Independent Sample T- Test using SPSS	Criteria: score 4 if done very well score 3 if done well score 2 if done fairly score 1 if not done Form of Assessment : Participatory Activities, Practice/Performance	Lectures, assignments, group discussions, class discussions 2 x 50	Material: processing and interpreting Independent Samples using SPSS Reference: Maksum, Ali, 2007, Textbook of Statistics in Sports, Department of Sports Education- Unesa, Surabaya	5%
7	Skilled in creating and calculating Anova tests using SPSS	Able to create and calculate Anova Test using SPSS	Criteria: score 4 if done very well score 3 if done well score 2 if done fairly score 1 if not done Form of Assessment : Participatory Activities, Practice/Performance	Lectures, assignments, group discussions, class discussions 2 x 50	Material: create and calculate Anova Test using SPSS Library: Maksum, Ali, 2007, Textbook of Statistics in Sports, Department of Sports Education- Unesa, Surabaya	5%
8	UTS	able to understand meeting material 1-7	Criteria: You get a score of 100 if you get all the questions right Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance	UTS 2 X 50	Material: UTS Library: Maksum, Ali, 2007, Textbook of Statistics in Sports, Department of Sports Education- Unesa, Surabaya	8%
9	Skilled in creating and calculating Pearson Correlation tests using SPSS	Able to create and calculate the Pearson Correlation Test using SPSS	Criteria: score 4 if done very well score 3 if done well score 2 if done fairly score 1 if not done Form of Assessment : Participatory Activities, Practice/Performance	Lectures, assignments, group discussions, class discussions 2 x 50	Material: create and calculate the Pearson Correlation test using SPSS Reader: Field, Andy, 2009. Discovering Statistics Using SPSS, London. SAGE Publications.	5%

10	Skilled in creating and calculating multiple correlation tests using SPSS	Able to create and calculate multiple correlation tests using SPSS	Criteria: score 4 if done very well score 3 if done well score 2 if done fairly score 1 if not done Form of Assessment : Participatory Activities, Practice/Performance	Lectures, assignments, group discussions, class discussions 2 x 50	Material: create and calculate multiple correlation tests using SPSS Library: Hendikawati, P. (2012). Development of SPSS- Based Statistics Textbooks. 8(2), 163–174.	5%
11	Skilled in processing and interpreting simple regression tests using SPSS	Able to process and interpret simple regression tests using SPSS	Criteria: score 4 if done very well score 3 if done well score 2 if done fairly score 1 if not done Form of Assessment : Participatory Activities, Practice/Performance	Lectures, assignments, group discussions, class discussions 2 x 50	Material: simple regression test using SPSS Reference: <i>Hendikawati</i> , <i>P. (2012).</i> <i>Development</i> <i>of SPSS-</i> <i>Based</i> <i>Statistics</i> <i>Textbooks.</i> <i>8(2), 163–174.</i>	5%
12	Skilled in processing data and interpreting non-parametric correlation tests using SPSS	Able to process data and interpret non- parametric correlation tests using SPSS	Criteria: score 4 if done very well score 2 if done fairly score 1 if not done Form of Assessment : Participatory Activities, Practice/Performance	Lectures, assignments, group discussions, class discussions 2 x 50	Material: non- parametric correlation test using SPSS Reference: Hendikawati, P. (2012). Development of SPSS- Based Statistics Textbooks. 8(2), 163–174.	5%
13	Skilled in processing data and interpreting the Wilcoxon Test using SPSS	Able to process data and interpret the Wilcoxon Test using SPSS	Criteria: score 4 if done very well score 3 if done well score 2 if done fairly score 1 if not done Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Practices / Performance	Lectures, assignments, group discussions, class discussions 2 x 50	Material: Wilcoxon Test using SPSS Reference: Hendikawati, P. (2012). Development of SPSS- Based Statistics Textbooks. 8(2), 163–174.	5%
14	Skilled in processing data and interpreting the non- parametric Mann- Whitney U Test using SPSS	Able to process data and interpret non- parametric Mann- Whitney U Test using SPSS	Criteria: score 4 if done very well score 3 if done well score 2 if done fairly score 1 if not done Form of Assessment : Participatory Activities, Practice/Performance	Lectures, assignments, group discussions, class discussions 2 x 50	Material: non- parametric Mann-Whitney U Test using SPSS Library: Hendikawati, P. (2012). Development of SPSS- Based Statistics Textbooks. 8(2), 163–174.	8%
15	Skilled in processing data and interpreting the Kruskal Wallis Test using SPSS	Able to process data and interpret the Kruskal Wallis Test using SPSS	Criteria: score 4 if done very well score 3 if done well score 2 if done fairly score 1 if not done Form of Assessment : Participatory Activities, Practice/Performance	Lectures, assignments, group discussions, class discussions 2 x 50	Material: Kruskal Wallis Test using SPSS Library: Hendikawati, P. (2012). Development of SPSS- Based Statistics Textbooks. 8(2), 163–174.	10%

16	UAS	able to understand meeting material 1-15	Criteria: You get a score of 100 if you get all the questions right Form of Assessment : Participatory Activities	2 X 50	Material: UAS Library: Maksum, Ali, 2007, Textbook of Statistics in Sports, Department of Sports Education- Unesa, Surabaya	10%
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Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	53.84%
2.	Project Results Assessment / Product Assessment	7.34%
3.	Practice / Performance	35.84%
4.	Test	3%
		100%

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.
- 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 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.
- 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.
- 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.