

Universitas Negeri Surabaya Vocational Faculty, D4 Civil Engineering Study Program

Document Code

SEMESTER LEARNING PLAN CODE Courses Course Family **Credit Weight** SEMESTER Compilation T=2 P=0 ECTS=3.18 Compulsory Study Program Subjects April 29, 2023 **Applied Statistics** 99992240102011 3 Study Program Coordinator **AUTHORIZATION** SP Developer **Course Cluster Coordinator** Suparji Suparji Puguh Novi Prasetyono, S.Pd., M.T. Learning model **Case Studies** Program PLO study program which is charged to the course Learning PLO-11 Able to apply knowledge of mathematics, natural and/or materials science, civil engineering information Outcomes technology to gain a thorough understanding of the principles and methods of civil engineering in the field of building construction. (PLO) **Program Objectives (PO) PLO-PO Matrix** P.O PLO-11 PO Matrix at the end of each learning stage (Sub-PO) P.O Week 2 4 5 8 10 1 3 6 9 11 12 13 14 15 16 This course provides an understanding of basic statistical theory and types of data, presentation and analysis of data to support the preparation of a thesis using both descriptive and inferential statistics (parametric and non-parametric). Learning is carried out using a direct teaching model by applying a constructivist approach. The learning activity ends with practice analyzing and presenting research data. Evaluation of learning with written tests. Short Course Description Main: References Suparji, Palupi, A.E. dan Mulyono, W.D. (2020). Statistik untuk Penelitian Pendidikan. Surabaya:Prima Abadi Jaya Sujana. 1989. Metoda Statistik . Bandung: Tarsito Sugiono. 1994. Metoda Penelitian Administratif . Bandung: Alfabete 4. Djarwanto & Subagyo.1994. Statistik Induktif . Yogyakarta:BPFE. Supporters: 1. Sukardi. (2011). Metode Penelitian Pendidikan, Kompetensi dan Praktiknya. Jakarta: Bumi Aksara Supporting Prof. Dr. Suparji, S.Pd., M.Pd.

We	ek- e	inal abilities of ach learning tage Sub-PO)	Ev: Indicator	aluation Criteria & Form	Lear Stude	elp Learning, rning methods, nt Assignments, stimated time] Online (<i>online</i>)	Learning materials [References	Assessment Weight (%)
(2	1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

1	Students understand the material, assessment system for 1 semester.	Students can explain the main material, assignments and assessment system for 1 semester.	Criteria: Full marks are obtained if you do all the questions correctly, with each question having a weight of 50, so the total score is 100.	Lectures 2 X 50		0%
2	Students can present data in various forms.	Students can: Explain the various types of data presentation. Presenting data with various presentation models	Criteria: Full marks are obtained if you do all the questions correctly, with each question having a weight of 50, so the total score is 100.	Lectures, discussions and questions and answers 2 X 50		0%
3	Students can calculate measures of centering (mean, median, and mode)	1.Students can: Explain the meaning of mean, median and mode. 2.Calculate the mean, median, and mode.	Criteria: Full marks are obtained if you do all the questions correctly, with each question having a weight of 50, so the total score is 100.	Lectures, discussions, exercises 2 X 50		0%
4	Students can calculate location measurements (quartiles, deciles and percentiles)	1.Students can: Explain the meaning of quartiles, deciles and percentiles. 2.Calculate quartiles, deciles and percentiles.	Criteria: Full marks are obtained if you do all the questions correctly, with the weight of questions 1 and question 2 being 30, question 3 being 40, so the total score is 100	Lectures, discussions, exercises 2 X 50		0%
5	Students can calculate Standard Deviation, measure of slant and measure of sharpness (kurtosis)	1.Students can: Explain the meaning of Standard Deviation / Standard Deviation, measure of skewness and measure of sharpness (kurtosis) 2.Calculating Standard Deviation / Standard Deviation, measure of slant and measure of sharpness (kurtosis)	Criteria: Full marks are obtained if you do the questions correctly, with a total score of 100.	Lectures, discussions, exercises 2 X 50		0%
6	Students can understand the meaning and use of the normal curve	1.Students can: Explain the normal distribution function 2.Calculate the area using the z table 3.can read z table	Criteria: Full marks are obtained if you do the questions correctly, with a total score of 100.	Lectures, discussions, exercises 2 X 50		0%

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7	Students can understand probability, permutations and combinations	1Students can: understand opportunities, permutations and combinations 2.calculate probability values, permutations and combinations	Criteria: Full marks are obtained if you do the questions correctly, with a total score of 100	-Lectures, discussions and 2 X 50 exercises		0%
8	UTS		Criteria: Full marks are obtained if you do all the questions correctly, with each question having a weight of 25, so the total score is 100.	2 X 50		0%
9	Students can state descriptive, comparative and associative hypotheses and test these hypotheses.	1.Students can: Explain the hypothesis. 2.State descriptive, comparative and associative hypotheses. 3.Explain how to test a hypothesis.	Criteria: Full marks are obtained if you do all the questions correctly, with the weight of questions 1 and question 2 being 30, question 3 being 40, so the total score is 100	Lectures, discussions and questions and answers 3 X 50		0%
10	Students can use the t test to test hypotheses	1.Students can: Explain the use of the t test 2.Using the t test to test the hypothesis	Criteria: Full marks are obtained if you do all the questions correctly, with each question having a weight of 25, so the total score is 100.	Lectures, discussions and questions and answers 3 X 50		0%
11	Students can calculate correlation	1.Students can: Explain the meaning of correlation 2.Calculating correlation	Criteria: Full marks are obtained if you do all the questions correctly, with each question having a weight of 25, so the total score is 100.	Lectures, discussions, exercises 3 X 50		0%
12	Students can calculate a single regression	1.Students can: Explain the meaning of single regression 2.Calculating a single regression	Criteria: Full marks are obtained if you do the questions correctly, with a total score of 100.	Lectures, discussions, exercises 3 X 50		0%
13	Students can calculate multiple regression	1.Students can: Explain the meaning of multiple regression 2.Calculating multiple regression	Criteria: Full marks are obtained if you do the questions correctly, with a total score of 100.	Lectures, discussions, exercises 3 X 50		0%
14	Students can calculate multiple regression	1.Students can: Explain the meaning of multiple regression 2.Calculating multiple regression	Criteria: Full marks are obtained if you do the questions correctly, with a total score of 100.	Lectures, discussions, exercises 3 X 50		0%
15	Students can calculate anava	1.Students can: Explain the meaning of anava 2.Calculating anava	Criteria: Full marks are obtained if you do the questions correctly, with a total score of 100.	Lectures, discussions, exercises 3 X 50		0%
16						0%
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Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
		0%

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.