



Universitas Negeri Surabaya
Faculty of Economics and Business
Bachelor of Commerce Education Study Program

Document Code

SEMESTER LEARNING PLAN

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|--|--|--|-----------------------------------|--|----------------------------------|--|------------------------------|---|---|----|----|----|----|----|----|----|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| Courses | CODE | Course Family | Credit Weight | SEMESTER | Compilation Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Statistics 1 | 8721103076 | | T=3 P=0 ECTS=4.77 | 3 | July 19, 2024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUTHORIZATION | SP Developer | | Course Cluster Coordinator | | Study Program Coordinator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Dr. Tri Sudarwanto, S.Pd., MSM. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Learning model | Case Studies | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Program Learning Outcomes (PLO) | PLO study program that is charged to the course | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Program Objectives (PO) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PLO-PO Matrix | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="margin: auto;"> <tr><td style="width: 50px; height: 30px;">P.O</td></tr> </table> | | | | | P.O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P.O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PO Matrix at the end of each learning stage (Sub-PO) <table border="1" style="margin: auto; width: 100%;"> <tr> <td rowspan="2" style="width: 50px; height: 30px;">P.O</td> <td colspan="16" style="text-align: center;">Week</td> </tr> <tr> <td style="width: 20px;">1</td> <td style="width: 20px;">2</td> <td style="width: 20px;">3</td> <td style="width: 20px;">4</td> <td style="width: 20px;">5</td> <td style="width: 20px;">6</td> <td style="width: 20px;">7</td> <td style="width: 20px;">8</td> <td style="width: 20px;">9</td> <td style="width: 20px;">10</td> <td style="width: 20px;">11</td> <td style="width: 20px;">12</td> <td style="width: 20px;">13</td> <td style="width: 20px;">14</td> <td style="width: 20px;">15</td> <td style="width: 20px;">16</td> </tr> </table> | | | | | P.O | Week | | | | | | | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| P.O | Week | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | | | | | | | | | | | | | | | | | | | | |
| Short Course Description | Discussion of basic statistical concepts, measures of central tendency, measures of spread, measures of location, measures of curve slope, measures of curve sharpness, index numbers, time series analysis and probability. Lectures are carried out using a system of case study analysis, presentations and discussions, and reflections. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| References | Main : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <ol style="list-style-type: none"> 1. Berenson, Markl., dan David M. Levine. Basic Business Statistics, Concepts and Applications. Ed. ke- 6. New Jersey : Prentice Hall Inc., 1996. 2. Mc Clave, J.J., dan P.G. Benson. Statistics for Business and Economics. Ed. ke-3. San Fransisco: Dellen Publishing Compy, 1985 3. Mendenhall, W., dan J.E Reinmuth. Statistics for Management and Economics. Ed. ke-4. California: Wadsworth Publishing Company Inc., 1982 4. Nata Wirawan. Cara mudah Memahami Statistik 1. Edisi ke-2. Denpasar : Keraras Emas (Wajib) 5. Supranto, J. Statistik, Teori dan Aplikasi, Jilid 1. Edisi ke-5 Jakarta: Erlangga, 1994 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Supporters: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Supporting lecturer | Dr. Finisica Dwijayati Patrikha, S.Pd., M.Pd. Veni Rafida, S.Pd., M.Pd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 1 | Describe the meaning and function of statistics | <ol style="list-style-type: none"> 1.Able to describe the meaning of statistics 2.Can describe statistical functions 3.Can describe statistical groupings based on how data is processed 4.Able to describe statistical groupings based on the form of parameters 5.Able to describe data | Criteria: It is said to be complete if around 10% of all students can answer correctly | lectures and reading literature 3 X 50 | | | 0% |
| 2 | Able to compile data frequency distribution tables and two-way tables | <ol style="list-style-type: none"> 1.Able to determine the number of classes; starting and finishing points; real intervals and limits. 2.Able to calculate: frequency and cumulative frequency. 3.Able to create frequency and cumulative frequency graphs. | Criteria: <ol style="list-style-type: none"> 1.Question a: Score 50 2.Question b: Score 50 3.Total (question 1 - question 2)100 | lectures and reading literature 6 X 50 | | | 0% |
| 3 | | | | | | | 0% |
| 4 | Describe various kinds of tables & diagrams | <ol style="list-style-type: none"> 1.Able to explain the meaning of tables 2.Able to explain various tables 3.Able to explain various diagrams 4.Able to make various kinds of diagrams with the help of Ms. excel | Criteria: <ol style="list-style-type: none"> 1.Question 1: Score 40 2.Question 2: Score 60 3.Total Score 100 | Lectures, reading literature, assignments 3 X 50 | | | 0% |

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|---|--|--|---|--|--|--|----|
| 5 | Calculating the measure of central tendency of data frequency distribution | <ol style="list-style-type: none"> 1.Can explain the meaning of the measure of distribution's central tendency 2.Can calculate mean manual & application in MS. Excel and SPSS 3.Can calculate manual mode & application in MS. Excel and SPSS 4.Can calculate median manual & application in MS. Excel and SPSS | Criteria: <ol style="list-style-type: none"> 1.It is said to be complete if around 10% of all students can answer correctly. 2.Question a: Score 50 3.Question b: Score 50 4.Total (question 1 - question 2)100 | Lectures, reading literature, assignments, practical work 6 X 50 | | | 0% |
| 6 | | | | | | | 0% |
| 7 | Calculate a measure of frequency disparity from data | <ol style="list-style-type: none"> 1.Explain the meaning of frequency disparity measures from data 2.Able to calculate: Percentiles, Deciles, Quartiles, Range, Quartile Range, Semi-quartile Range 3.explains Standard deviation, Variance and Z score, Standard error, Qualitative Variation Index for all symptoms | Criteria: <ol style="list-style-type: none"> 1.Question1: score 30 2.Question 2: score 30 3.Question 3: score 40 4.Total (questions 1-3)100 | Lectures, reading literature, 3 X 50 | | | 0% |
| 8 | Midterm exam | | | 3 X 50 | | | 0% |
| 9 | Analyze the shape of the normal curve | 9.1 Able to calculate measurements: Curvature, Kurtosis, Normal curve area | | Reading literature, listening to explanations, working on questions and peer discussions 3 X 50 | | | 0% |

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|----|--|---|--|--|--|--|----|
| 10 | Analyzing parameter estimates | 10.1. Able to calculate and analyze normal distribution probabilities 11. 1. Able to calculate estimates of average and variance parameters for a population 12.1. Able to calculate estimates of average and variance parameters for two populations | | Reading literature, listening to explanations, working on questions and peer discussions 9 X 50 | | | 0% |
| 11 | Analyzing parameter estimates | 10.1. Able to calculate and analyze normal distribution probabilities 11. 1. Able to calculate estimates of average and variance parameters for a population 12.1. Able to calculate estimates of average and variance parameters for two populations | | Reading literature, listening to explanations, working on questions and peer discussions 9 X 50 | | | 0% |
| 12 | Analyzing parameter estimates | 10.1. Able to calculate and analyze normal distribution probabilities 11. 1. Able to calculate estimates of average and variance parameters for a population 12.1. Able to calculate estimates of average and variance parameters for two populations | | Reading literature, listening to explanations, working on questions and peer discussions 3 X 50 | | | 0% |
| 13 | Analyze different types of index numbers | 13.1. Able to calculate single index, aggregate index, average index, weighted average index | | Reading literature, listening to explanations, working on questions and peer discussions 3 X 50 | | | 0% |
| 14 | Analyzing time series / trends | 14.1. Able to compile and analyze linear trend equations 15. 1. Able to compile and analyze non-linear trend equations | | Reading literature, listening to explanations, working on questions and peer discussions 6 X 50 | | | 0% |
| 15 | Analyzing time series / trends | 14.1. Able to compile and analyze linear trend equations 15. 1. Able to compile and analyze non-linear trend equations | | Reading literature, listening to explanations, working on questions and peer discussions 3 X 50 | | | 0% |
| 16 | Final exams | | | 3 X 50 | | | 0% |

Evaluation Percentage Recap: Case Study

| No | Evaluation | Percentage |
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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.
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** 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.
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.
9. **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.