	Universitas Negeri Surabaya Faculty of Economics and Business Economic Education Undergraduate Study Program	Document Code

SEMESTER LEARNING PLAN

Courses		CODE	Course Family		Credit Weight			SEMESTER	Compilation Date
ECONOMIC EDUCATION STATISTICS		8720303371	Compulsory Study Program Subjects		T=3	P=0	ECTS=4.77	3	July 17, 2024
AUTHORIZATION		SP Developer		Course Cluster Coordinator				Study Program Coordinator	
		Albrian Fiky Prakoso, S.Pd., M.Pd		Widyastuti, S.Si., M.Si				Dr. Retno Mustika Dewi, S.Pd., M.Pd.	

Learning model	Case Studies

Program Learning Outcomes (PLO)	PLO study program that is charged to the course
	Program Objectives (PO)
	PO - 1 Able to demonstrate a responsible attitude in understanding the concept of statistical data analysis both independently and in groups
	PO - 2 Analyze and interpret the results of data analysis
	PO - 3 Utilizing technology and information in data analysis
	PLO-PO Matrix

P.O
PO-1
PO-2
PO-3

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	16
PO-1																
PO-2																
PO-3																

Short Course Description	This course is a continuation of the statistics course, this course applies statistical concepts using the help of application software including transformation of scores into scales, multivariate analysis, latent variables, statistical modeling with WarpPLS software as well as interpretation, also discussing qualitative research, types -types of qualitative research design, qualitative data collection methods, as well as qualitative data management, coding techniques, data classification, and interpretation using Nvivo software.

References	Main :

1. Solimun, Fernandes, dan Nurjannah. 2017. Metode Statistika Multivariat. Malang: UB Press.
2. Solimun, Fernandes, dan Handoyo. 2017. Perancangan dan Pengujian Kuesioner serta Transformasi Skor Menjadi Skala Berbasis MSI, SRS, dan Rasch Model. Malang: Program Studi Statistika Jurusan Matematika, FMIPA UB
3. Bandur, Agustinus. 2019. Penelitian Kualitatif Studi Multi-Disiplin Keilmuan Dengan Nvivo 12 Plus . Jakarta: Mitra Wacana Media

Supporters:

1. Sholihin, Mahfud dan Ratmono, Dwi. 2014. Analisis SEM-PLS Dengan WarpPLS 3.0 Untuk Hubungan Nonlinier Dalam Penelitian Sosial Dan Bisnis . Yogyakarta: Andi Publisher.
2. Latan, Hengky dan Ghozali, Imam. 2016. Partial Least Square Konsep, Metode dan Aplikasi Menggunakan WarpPLS 5.0 . Semarang: Badan Penerbit Universitas Diponegoro.

Supporting lecturer	Riza Yonisa Kurniawan, S.Pd., M.Pd. Albrian Fiky Prakoso, S.Pd., M.Pd. Amirusholihin, M.Sc.

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)

#			Criteria / Form of Assessment			Material / References	%
1	Understand the transformation of scores to scales and practice it	1. Differentiate between scores and scales 2. Explain the benefits of transforming scores into scales 3. Practicing transforming scores into scales 4. Practicing data tabulation resulting from data transformation to Excel	**Criteria:** Project Results Assessment **Form of Assessment** : Project Results Assessment / Product Assessment	Week 1 - Lecture Week 2 - Lecture - Simulation of transformation of scores into a scale - Task 1: tabulate the data from the transformation of scores into a 3 X 50 scale		**Material:** Understanding and benefits of transforming scores into scales, practice of transforming scores into scales, tabulating data from transformation results. **References:** *Main: Solimun, Fernandes, and Nurjannah. 2017. Multivariate Statistical Methods. Malang: UB Press.*	5%
2	Understand the transformation of scores to scales and practice it	1. Differentiate between scores and scales 2. Explain the benefits of transforming scores into scales 3. Practicing transforming scores into scales 4. Practicing data tabulation resulting from data transformation to Excel	**Criteria:** Project Results Assessment **Form of Assessment** : Project Results Assessment / Product Assessment	Week 1 - Lecture Week 2 - Lecture - Simulation of transformation of scores into a scale - Task 1: tabulate the data from the transformation of scores into a 3 X 50 scale		**Material:** Understanding and benefits of transforming scores into scales, practice of transforming scores into scales, tabulating data from transformation results. **References:** *Main: Solimun, Fernandes, and Nurjannah. 2017. Multivariate Statistical Methods. Malang: UB Press.*	5%
3	Understand an overview of multivariate analysis	1. Explain the meaning of multivariate analysis 2. Explain the development of multivariate analysis 3. Explain input data for multivariate analysis 4. Differentiating the classification of multivariate analysis	**Criteria:** Project Results Assessment **Form of Assessment** : Project Results Assessment / Product Assessment	3rd Week - Lecture - Discussion in groups of 3 X 50		**Material:** Definition of multivariate analysis, development of multivariate analysis, input data for multivariate analysis, classification of multivariate analysis. **References:** *Main: Solimun, Fernandes, and Nurjannah. 2017. Multivariate Statistical Methods. Malang: UB Press.*	5%
4	Analyzing latent variable data	1. Explain the meaning of latent variables 2. Describe the measurement of latent variables 3. Analyzing latent variable data	**Criteria:** work method **Form of Assessment** : Participatory Activities, Practice/Performance	Week 4 - Lectures 3 X 50 group discussions		**Material:** Understanding latent variables, measuring latent variables, latent variable data Understanding latent variables, measuring latent variables, latent variable data **Literature:** *Solimun, Fernandes, and Handoyo. 2017. Designing and Testing Questionnaires and Transforming Scores into Scales Based on MSI, SRS, and Rasch Models. Malang: Statistics Study Program, Mathematics Department, FMIPA UB*	10%

5	Describe statistical modeling with WarpPLS, moderation and mediation variables	1. Explain the meaning of statistical modeling with Warppls 2. Describe the relationship between variables with Warppls 3. Distinguish between moderating and mediating variables	**Criteria:** Project Results Assessment **Form of Assessment** : Project Results Assessment / Product Assessment	Week 5 - Lecture - Group discussion Task 2: design a 3 X 50 conceptual model		**Material:** Understanding statistical modeling with Warppls, relationships between variables with WarpPLS, moderation and mediation variables **Readers:** *Solimun, Fernandes, and Nurjannah. 2017. Multivariate Statistical Methods. Malang: UB Press.*	10%
6	Putting WarpPLS and its interpretation into practice	1. Explain the meaning of Warppls 2. Understand the WapPLS tool 3. Practice the WarpPLS operating steps4. Analyzing WarpPLS Output	**Criteria:** Project Results Assessment **Form of Assessment** : Assessment of Project Results / Product Assessment, Practices / Performance	Week 6 - Lecture - Group discussion - Practice operating WarpPLS Week 7 - Practice interpreting WarpPLS output Task 3: Interpret the results of WarpPLS 3 X 50 analysis		**Material:** Understanding WarpPLS, WapPLS Tools, WarpPLS operating steps, WarpPLS Output Analysis **Reader:** *Sholihin, Mahfud and Ratmono, Dwi. 2014. SEM-PLS Analysis with WarpPLS 3.0 for Nonlinear Relationships in Social and Business Research. Yogyakarta: Andi Publisher.*	10%
7	Putting WarpPLS and its interpretation into practice	1. Explain the meaning of Warppls 2. Understand the WapPLS tool 3. Practice the WarpPLS operating steps4. Analyzing WarpPLS Output	**Criteria:** Project Results Assessment **Form of Assessment** : Assessment of Project Results / Product Assessment, Practices / Performance	Week 6 - Lecture - Group discussion - Practice operating WarpPLS Week 7 - Practice interpreting WarpPLS output Task 3: Interpret the results of WarpPLS 3 X 50 analysis		**Material:** Understanding WarpPLS, WapPLS Tools, WarpPLS operating steps, WarpPLS Output Analysis **Reader:** *Sholihin, Mahfud and Ratmono, Dwi. 2014. SEM-PLS Analysis with WarpPLS 3.0 for Nonlinear Relationships in Social and Business Research. Yogyakarta: Andi Publisher.*	10%
8	UTS	UTS	**Criteria:** test **Form of Assessment** : Test	UTS 3 X 50		**Material:** UTS **Library:** *Solimun, Fernandes, and Handoyo. 2017. Designing and Testing Questionnaires and Transforming Scores into Scales Based on MSI, SRS, and Rasch Models. Malang: Statistics Study Program, Mathematics Department, FMIPA UB*	0%
9	Identify types of qualitative research designs	1. Describe qualitative research questions 2. Understand grounded theory research design 3. Understand phenomenological research design4. Understand ethnographic research design	**Criteria:** Project Results Assessment **Form of Assessment** : Project Results Assessment / Product Assessment	Week 9: - Lecture Discussion in groups of 3 X 50		**Material:** Qualitative research questions, Grounded Theory research design, phenomenological research design, ethnographic research design **References:** *Bandur, Agustinus. 2019. Qualitative Research Multi-Disciplinary Scientific Study Using Nvivo 12 Plus. Jakarta: Mitra Discourse Media*	5%

10	Understand qualitative data collection methods	1. Describe qualitative data collection methods 2. Understand observation data collection methods 3. Understand in-depth interview data collection methods 4. Understand FGDs data collection methods5. Understand record review data collection methods	**Criteria:** Project Results Assessment **Form of Assessment** : Project Results Assessment / Product Assessment	Week 10: - Lecture - Discussion in groups Task 4: Collect data through observation and in-depth interviews presented in the form of interactive video/PPT 3 X 50		**Material:** Qualitative data collection methods, observation, in-depth interviews, FGDs, record review. **Literature:** *Bandur, Agustinus. 2019. Qualitative Research Multi-Disciplinary Scientific Study Using Nvivo 12 Plus. Jakarta: Mitra Discourse Media*	5%
11	Describe data management in NVivo	1. Describe document settings in NVivo 2. Describe NVivo YouTube online video settings 3. Describe website content settings in NVivo 4. Describe social media settings in NVivo5. Integrating SPSS in NVivo	**Criteria:** Project Results Assessment **Form of Assessment** : Project Results Assessment / Product Assessment	Week 11 - Lecture - Discussion in groups - Practicing the operation of the NVivo software Task 5: Create online document/video content for YouTube/Website Content/social media to NVivo 3 X 50		**Material:** Managing documents in NVivo, managing YouTube Online Videos, managing website content in NVivo, managing social media in NVivo, SPSS integration in NVivo **Reader:** *Bandur, Agustinus. 2019. Qualitative Research Multi-Disciplinary Scientific Study Using Nvivo 12 Plus. Jakarta: Mitra Discourse Media*	5%
12	Explains qualitative data coding techniques with NVivo	1. Understand qualitative data coding 2. Identify the differences between deductive and inductive analysis 3. Identify the purpose of qualitative research coding 4. Describe the types of qualitative research coding 5. Understand interview file coding 6. Describe automatic coding	**Criteria:** Project Results Assessment **Form of Assessment** : Project Results Assessment / Product Assessment	Week 12 - Lecture - Discussion in groups - Coding simulation with NVivo 3 X 50 software		**Material:** Qualitative data coding, deductive and inductive analysis, objectives of qualitative research coding, types of qualitative research coding, interview file coding, automatic coding **Reader:** *Bandur, Agustinus. 2019. Qualitative Research Multi-Disciplinary Scientific Study Using Nvivo 12 Plus. Jakarta: Mitra Discourse Media*	5%
13	Analyzing Nodes in NVivo	1. Describe Nodes in NVivo 2. Explore relationships between attributes with NVivo3. Explains creating a Node matrix	**Criteria:** Project Results Assessment **Form of Assessment** : Project Results Assessment / Product Assessment	Week 13 - Lecture - Discussion in groups Nodes Simulation with NVivo 3 X 50 software		**Material:** Nodes in NVivo, Inter-attribute relationships with NVivo, creating matrix nodes **Readers:** *Bandur, Agustinus. 2019. Qualitative Research Multi-Disciplinary Scientific Study Using Nvivo 12 Plus. Jakarta: Mitra Discourse Media*	10%
14	Identify qualitative data classifications	1. Describe how to classify data sources 2. Practice creating attributes 3. Classify data sources 4. Classify nodes 5. Analyze clusters with NVivo6. Analyzing data via NVivo Queries	**Criteria:** Project Results Assessment **Form of Assessment** : Project Results Assessment / Product Assessment	Week 14 - LecturesDiscussion in groups of 3 X 50		**Material:** Classifying data sources, creating attributes, classifying data sources, classifying nodes, cluster analysis with NVivo **Reader:** *Bandur, Agustinus. 2019. Qualitative Research Multi-Disciplinary Scientific Study Using Nvivo 12 Plus. Jakarta: Mitra Discourse Media*	10%

| 15 | Analyzing coding results with NVivo | 1. describe the procedure for creating an NVivo model 2. Create a Mindmap with NVivo 3. Create a projectmap with NVivo4. Creating a Conceptmap with NVivo | **Criteria:** work method

 Form of Assessment : Assessment of Project Results / Product Assessment, Practices / Performance | Week 15 - Lecture - Discussion in groups Task 6: Interpret the results of data coding in the form of a
 3 X 50
 Mindmap/Projectmap/Conceptmap | | **Material:** Procedure for creating an NVivo model, Mindmap with NVivo, Projectmap with NVivo, Conceptmap with NVivo
 Reader: *Bandur, Agustinus. 2019. Qualitative Research Multi-Disciplinary Scientific Study Using Nvivo 12 Plus. Jakarta: Mitra Discourse Media* | 5% |
| 16 | UAS | test | **Criteria:** test

 Form of Assessment : Test | test | | **Material:** UAS **Literature:** *Bandur, Agustinus. 2019. Qualitative Research Multi-Disciplinary Scientific Study Using Nvivo 12 Plus. Jakarta: Mitra Discourse Media* | 0% |

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	5%
2.	Project Results Assessment / Product Assessment	77.5%
3.	Practice / Performance	17.5%
		100%

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.