

SEMESTER LEARNING PLAN

**STATISTICAL METHODS COURSES
(23H01110703)**



TEACHING TEAM

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STUDI PROGRAM OF MATHEMATICS - S1
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
HASANUDDIN UNIVERSITY
MAKASSAR
2025

**STUDY PROGRAM OF MATEMATIKA - S1
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
HASANUDDIN UNIVERSITY**

Vision

The scientific vision is to become a study program with an international reputation in the development of mathematics based on the Indonesian maritime continent by 2030

Vision Strategy

Mission

To fulfill the above vision, the Undergraduate Mathematics Study Program has four missions, namely:

- Organizing innovative and effective mathematics learning to improve the quality and creativity of students in order to compete nationally and internationally.
- Improving a research culture that produces internationally reputable publications.
- Playing an active role in community service activities and collaborating with other academic institutions, government, business, media and society.
- Carry out governance in the Mathematics Study Program that is effective, efficient and transparent based on IT and ISO 9001:2015 standards to achieve the tridharma goals.

Graduate Profiles

Gagal diterjemahkan

PLO charged to courses

CPL-9 (S2) - The students are able to adapt and develop self-abilities, both in mathematics and other relevant areas of science in their professional lives

CPL-1 (ILO 1) - Students are able to demonstrate an advanced understanding of basic pure and simple applied mathematics.

CPL-6 (KK2) - The students are able to apply the mathematical method for solving a mathematical related-problem with or without the aid of computers and software

CPL-7 (KK3) - The students are able to demonstrate mathematical skills which include interpretation, connecting problems, solving problems, and communicating individually or teamwork

Course Learning Outcomes (CLO)

CPMK-1: Students are able to apply basic knowledge of statistics (CPL1)

CPMK-2: Students are able to collect, process, analyze and interpret data based on basic knowledge of statistics (CPL1 dan CPL6)

CPMK-3: Students are able to demonstrate their understanding of the basic concepts of statistics to solve a problem related to statistics through the use of technology (CPL6 dan CPL7)

CPMK-4: Students are able to communicate statistical ideas in an appropriate context both orally and in writing with the group (CPL9 dan CPL7)

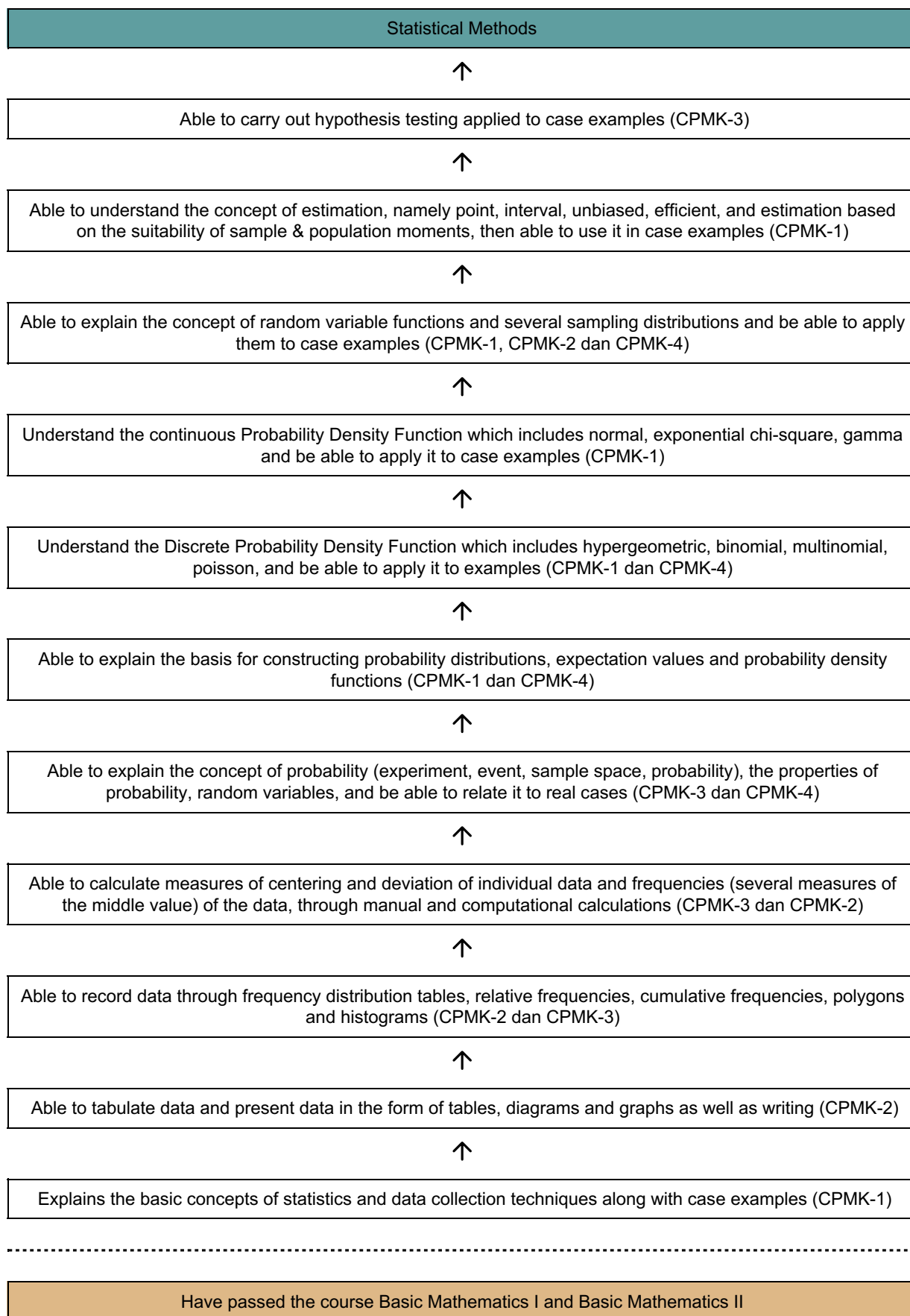
Sub-CLO

Sub CPMK-1: Explains the basic concepts of statistics and data collection techniques along with case examples (CPMK-1)

Sub CPMK-2: Able to tabulate data and present data in the form of tables, diagrams and graphs as well as writing (CPMK-2)

- Sub CPMK-3: Able to record data through frequency distribution tables, relative frequencies, cumulative frequencies, polygons and histograms (CPMK-2 dan CPMK-3)
- Sub CPMK-4: Able to calculate measures of centering and deviation of individual data and frequencies (several measures of the middle value) of the data, through manual and computational calculations (CPMK-2 dan CPMK-3)
- Sub CPMK-5: Able to explain the concept of probability (experiment, event, sample space, probability), the properties of probability, random variables, and be able to relate it to real cases (CPMK-3 dan CPMK-4)
- Sub CPMK-6: Able to explain the basis for constructing probability distributions, expectation values and probability density functions (CPMK-1 dan CPMK-4)
- Sub CPMK-7: Understand the Discrete Probability Density Function which includes hypergeometric, binomial, multinomial, poisson, and be able to apply it to examples (CPMK-1 dan CPMK-4)
- Sub CPMK-8: Understand the continuous Probability Density Function which includes normal, exponential chi-square, gamma and be able to apply it to case examples (CPMK-1)
- Sub CPMK-9: Able to explain the concept of random variable functions and several sampling distributions and be able to apply them to case examples (CPMK-1, CPMK-2 dan CPMK-4)
- Sub CPMK-10: Able to understand the concept of estimation, namely point, interval, unbiased, efficient, and estimation based on the suitability of sample & population moments, then able to use it in case examples (CPMK-1)
- Sub CPMK-11: Able to carry out hypothesis testing applied to case examples (CPMK-3)

Learning Analytics





HASANUDDIN UNIVERSITY

FAKULTY OF MATHEMATICS AND NATURAL SCIENCES

STUDY PROGRAM OF MATHEMATICS - S1

SEMESTER LEARNING PLAN

Course		Code	Course Group	Credits	SEMESTER	Compilation Date
Statistical Methods		23H01110703	Compulsory Courses (Compulsory Courses)	3	2	10 Agustus 2025
AUTHORITY		SLP Developer Lecturer		Coordinator		Head of Study Program
		Nur Rohmah Oktaviani Putri, S.Si., M.Si		Nur Rohmah Oktaviani Putri, S.Si., M.Si		Dr. Firman, S.Si.,M.Si.
	SLOs that are imposed on the course					
	SLO-9:	Mahasiswa dapat beradaptasi dan mengembangkan kemampuan diri, baik dalam matematika dan bidang ilmu lain yang relevan dalam kehidupan profesional mereka, dengan budaya belajar sepanjang hayat				
	SLO-1:	Mahasiwa memiliki pemahaman yang relatif mendalam dalam matematika murni dan matematika terapan sederhana.				
	SLO-6:	Mahasiswa dapat menerapkan metode matematika untuk memecahkan masalah terkait matematika dengan atau tanpa bantuan komputer dan perangkat lunak				
	SLO-7:	Mahasiswa dapat menunjukkan keterampilan matematika termasuk menghubungkan masalah, menyelesaikan masalah, interpretasi, dan berkomunikasi secara individu atau dengan kerja tim				
	SLO ⇒ Course Learning Outcomes					
	After completing this course, it is expected:					
	SLO-1	CLO-1: Students are able to apply basic knowledge of statistics				
		CLO-2: Students are able to collect, process, analyze and interpret data based on basic knowledge of statistics				
	SLO-6	CLO-2: Students are able to collect, process, analyze and interpret data based on basic knowledge of statistics				
		CLO-3: Students are able to demonstrate their understanding of the basic concepts of statistics to solve a problem related to statistics through the use of technology				
	SLO-7	CLO-3: Students are able to demonstrate their understanding of the basic concepts of statistics to solve a problem related to statistics through the use of technology				
		CLO-4: Students are able to communicate statistical ideas in an appropriate context both orally and in writing with the group				
	SLO-9	CLO-4: Students are able to communicate statistical ideas in an appropriate context both orally and in writing with the group				
	CLO ⇒ Sub-CLO					
		Sub-CLO-1:Explains the basic concepts of statistics and data collection techniques along with case examples				

Learning Outcomes Course	CLO-1	Sub-CLO-6:Able to explain the basis for constructing probability distributions, expectation values and probability density functions							
		Sub-CLO-7:Understand the Discrete Probability Density Function which includes hypergeometric, binomial, multinomial, poisson, and be able to apply it to examples							
		Sub-CLO-8:Understand the continuous Probability Density Function which includes normal, exponential chi-square, gamma and be able to apply it to case examples							
		Sub-CLO-9:Able to explain the concept of random variable functions and several sampling distributions and be able to apply them to case examples							
		Sub-CLO-10:Able to understand the concept of estimation, namely point, interval, unbiased, efficient, and estimation based on the suitability of sample & population moments, then able to use it in case examples							
	CLO-2	Sub-CLO-2:Able to tabulate data and present data in the form of tables, diagrams and graphs as well as writing							
		Sub-CLO-3:Able to record data through frequency distribution tables, relative frequencies, cumulative frequencies, polygons and histograms							
		Sub-CLO-4:Able to calculate measures of centering and deviation of individual data and frequencies (several measures of the middle value) of the data, through manual and computational calculations							
		Sub-CLO-9:Able to explain the concept of random variable functions and several sampling distributions and be able to apply them to case examples							
	CLO-3	Sub-CLO-3:Able to record data through frequency distribution tables, relative frequencies, cumulative frequencies, polygons and histograms							
		Sub-CLO-4:Able to calculate measures of centering and deviation of individual data and frequencies (several measures of the middle value) of the data, through manual and computational calculations							
		Sub-CLO-5:Able to explain the concept of probability (experiment, event, sample space, probability), the properties of probability, random variables, and be able to relate it to real cases							
		Sub-CLO-11:Able to carry out hypothesis testing applied to case examples							
	CLO-4	Sub-CLO-5:Able to explain the concept of probability (experiment, event, sample space, probability), the properties of probability, random variables, and be able to relate it to real cases							
		Sub-CLO-6:Able to explain the basis for constructing probability distributions, expectation values and probability density functions							
		Sub-CLO-7:Understand the Discrete Probability Density Function which includes hypergeometric, binomial, multinomial, poisson, and be able to apply it to examples							
		Sub-CLO-9:Able to explain the concept of random variable functions and several sampling distributions and be able to apply them to case examples							
	Correlation between SLOs/CLOs to Sub-CLOs								
SLOs that are charged on the Course	CPMK	SUB CPMK	Form of Assessment*				Weight	Value	Student Score
			Formative	Sumative					
				Independent Assignment	Quiz	Case Studies			

SLOs that are charged on the Course	CPMK	SUB CPMK	Form of Assessment*				Weight	Value	Student Score
			Formative	Sumative					
				Independent Assignment	Quiz	Case Studies			
SLO-6	CLO-2	SUB-CLO-2	Short question and answer	15	0	0	15		
SLO-7	CLO-3	SUB-CLO-3	Question and answer	0	10	0	10		
SLO-6	CLO-2	SUB-CLO-4	Question and answer	0	0	25	25		
SLO-7	CLO-4	SUB-CLO-6	Question and answer	15	0	0	15		
SLO-1	CLO-1	SUB-CLO-8	Question and answer	0	10	0	10		
SLO-7	CLO-3	SUB-CLO-11	Question and answer	0	0	25	25		
				30	20	50	100		
Course Description	Statistical Methods are the basis of the science of Statistics. Therefore, students must master the basic concepts of statistics which include basic understandings in statistics, data presentation, statistical measures, probability distribution and sampling distribution. This course also contains estimation and hypothesis testing so that students can easily understand other statistical sciences and apply them. Knowledge about using statistical software to master basic statistical concepts will also be provided through practicums.								
Learning Materials/Subjects	1. Data description (Data description) 2. Data presentation 3. Udata center measurement (Data center measurement) 4. Data dispersion measurement 5. Random variables and probability 6. Probability distribution 7. Sampling distribution (Sampling distribution) 8. Parameter Estimation 9. Hypothesis testing								
Reference	Main References								
	1. Walpole, R. E., Myers, R. H., Myers, S. L., and Ye, K. 2002. Probability & Statistics for Engineers & Scientist. 7th-Ed, Pearson Education International 2. Sudjana, 2005. Statistical Methods. Edition 6. Tarsito. Bandung								

		Additional References					
		Gagal diterjemahkan					
Teaching Team		Prof. Dr. Aidawayati Rangkuti, MS., Nur Rohmah Oktaviani Putri, S.Si., M.Si					
Course requirement		Basic Mathematics I, Basic Mathematics II					
Week	Sub CPMK (End-of-stage learning ability)	Penilaian (Assesment)		Learning Forms and Methods [time estimate]		Content	Weight of Assessment (%)
		Indicator	Techniques & Criteria	Offline	Online		
1	2	3	4	5	6	7	8
1-2	Explains the basic concepts of statistics and data collection techniques along with case examples (CPMK-1)	Formative: - Attitude assessment - Activity in questions and answers - Accuracy of understanding Sumative: - Accuracy in explaining concepts with examples; - Description Clarity; - Innovative library materials newest.	Formative Criteria: Short question and answer dinilai dengan rubrik 02 Sumative Criteria: Assessment Technique: Non Test	Studying: Discovery Learning 2x3x50		Tuition Contract, course description Understanding Basic Concepts of Statistics (research, population, sample, variables, parameters), Data Sources, Data Types, and Collection Techniques Data	0

3	Able to tabulate data and present data in the form of tables, diagrams and graphs as well as writing (CPMK-2)	Formative: • Attitude assessment • Activity in questions and answers • Accuracy of understanding Sumative: Ability finish that problem associated with function distribution random variable	Formative Criteria: Short question and answer dinilai dengan rubrik 04 Sumative Criteria: Independent Assignment (15) dinilai dengan rubrik 01 Assessment Technique: Test and Non-Test	Studying: Discovery Learning 3x50		Data Inspection, Encoding Data, and Tabulation Data	15
4-5	Able to record data through frequency distribution tables, relative frequencies, cumulative frequencies, polygons and histograms (CPMK-2, CPMK-3)	Formative: • Attitude assessment • Activity in questions and answers • Accuracy of understanding Sumative: Ability to create frequency and frequency distribution tables cumulative	Formative Criteria: Question and answer dinilai dengan rubrik 04 Sumative Criteria: Quiz (10) dinilai dengan rubrik 01 Assessment Technique: Test and Non-Test	Studying: Discovery Learning 2x3x50		Data Arrangement in Frequency Distribution, Frequency Distribution Relative, Cumulative Frequency Distribution, Polygon, and Histogram	10

6-8	Able to calculate measures of centering and deviation of individual data and frequencies (several measures of the middle value) of the data, through manual and computational calculations (CPMK-3, CPMK-2)	Formative: • Attitude assessment • Activity in questions and answers • Accuracy of understanding Sumative: Ability and Accuracy of calculating measures of centering and deviation of individual data and data frequency distribution	Formative Criteria: Question and answer dinilai dengan rubrik 04 Sumative Criteria: Case Studies (25) dinilai dengan rubrik 03 Assessment Technique: Non Test	Studying: Case Study (Case Study) Group Assignment for the week 6-7: 1. Students explore ideas by studying journal, web or reference literature other 2. The lecturer gives assignments to each group to fetch data from a specified experiment 3. Students carry out data processing 2x3x50 Studying: Case Study (Case Study) Group Presentation in the week 8: Students present the results of their discussions in class and are responded to directly by other students, the lecturer acts as a facilitator 3x50	Measures of Data Centering and Deviation in Individual Data and Distributions Frequency	25
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9	Able to explain the concept of probability (experiment, event, sample space, probability), the properties of probability, random variables, and be able to relate it to real cases (CPMK-3, CPMK-4)	Formative: • Attitude assessment • Activity in questions and answers • Accuracy of understanding Sumative: Accuracy in explaining concepts with examples; Clarity of Description; The latest innovative library materials	Formative Criteria: Short question and answer dinilai dengan rubrik 04 Sumative Criteria: Assessment Technique: Non Test	Studying: Discovery Learning 3x50		Probability Theory	0
10	Able to explain the basis for constructing probability distributions, expectation values and probability density functions (CPMK-1, CPMK-4)	Formative: • Attitude assessment • Activity in questions and answers • Accuracy of understanding Sumative: Ability and Accuracy of defining and determining random variables; Ability and Accuracy to calculate expectations and determine probability density functions	Formative Criteria: Question and answer dinilai dengan rubrik 04 Sumative Criteria: Independent Assignment (15) dinilai dengan rubrik 01 Assessment Technique: Non Test	Studying: Discovery Learning 3x50		Dbasics of Probability Distributions, Random Variables, Expected Values and Probability Density Functions	15

11	Understand the Discrete Probability Density Function which includes hypergeometric, binomial, multinomial, poisson, and be able to apply it to examples (CPMK-1, CPMK-4)	Formative: • Attitude assessment • Activity in questions and answers • Accuracy of understanding Sumative: Accuracy in explaining concepts with examples; Clarity of Description; The latest innovative library materials	Formative Criteria: Short question and answer dinilai dengan rubrik 04 Sumative Criteria: Assessment Technique: Non Test	Studying: Discovery Learning 3x50		Discrete Probability Density Function: Hypergeometric, Binomial, Multinomial, Poisson, and Case examples	0
12	Understand the continuous Probability Density Function which includes normal, exponential chi-square, gamma and be able to apply it to case examples (CPMK-1)	Formative: • Attitude assessment • Activity in questions and answers • Accuracy of understanding Sumative: Accuracy in explaining concepts with examples; Clarity of Description; The latest innovative library materials	Formative Criteria: Question and answer dinilai dengan rubrik 04 Sumative Criteria: Quiz (10) dinilai dengan rubrik 01 Assessment Technique: Test	Studying: Discovery Learning 3x50		Continuous Probability Density Function: Normal, Chi-Square, Gamma and Exponential, and Case examples	10

13	Able to explain the concept of random variable functions and several sampling distributions and be able to apply them to case examples (CPMK-1, CPMK-2, CPMK-4)	Formative: • Attitude assessment • Activity in questions and answers • Accuracy of understanding Sumative: Accuracy in explaining concepts with examples; Clarity of Description; The latest innovative library materials	Formative Criteria: Question and answer dinilai dengan rubrik 04 Sumative Criteria: Assessment Technique: Non Test	Studying: Discovery Learning 3x50		Distribution of Random Variable Functions, and Distribution Statistics	0
14	Able to understand the concept of estimation, namely point, interval, unbiased, efficient, and estimation based on the suitability of sample & population moments, then able to use it in case examples (CPMK-1)	Formative: • Attitude assessment • Activity in questions and answers • Accuracy of understanding Sumative: Accuracy in explaining concepts with examples; Clarity of Description; The latest innovative library materials	Formative Criteria: Question and answer dinilai dengan rubrik 04 Sumative Criteria: Assessment Technique: Non Test	Studying: Discovery Learning 3x50		Point Estimation, Interval Estimation, Non-Estimation Bias, Efficient Estimation, Sample Moment Estimation, and Population Moment Estimation	0

15-16	Able to carry out hypothesis testing applied to case examples (CPMK-3)	Formative: • Attitude assessment • Activity in questions and answers • Accuracy of understanding Sumative: Ability and Accuracy of creating null hypothesis and hypothesis counter cases and carry out hypothesis testing	Formative Criteria: Question and answer dinilai dengan rubrik 04 Sumative Criteria: Case Studies (25) dinilai dengan rubrik 03 Assessment Technique: Test and Non-Test	Studying: Case Study (Case Study) Group Assignment for the week 15: 1. Students explore ideas by conducting literature studies in journals, the web, or other references 2. The lecturer gives each group an assignment to look for cases, take data, and determine the hypothesis 3x50 Studying: Group discussion (Small Group Discussion) Group Presentation in the week 16: Students present the results of their discussions in class and are responded to directly by other students, the lecturer acts as a facilitator 3x50		Understanding Hypothesis, and Testing Hypothesis	25
							100

Matrix of SLO, CLO, and Assessment Method

SLO / CLO	CLO-1	CLO-2	CLO-3	CLO-4
CPL-1 (ILO 1)	Independent Assignment (Weight 15%) Quiz (Weight 10%)	Independent Assignment (Weight 15%) Quiz (Weight 10%) Case Studies (Weight 25%)		
CPL-6 (KK2)		Independent Assignment (Weight 15%) Quiz (Weight 10%) Case Studies (Weight 25%)	Quiz (Weight 10%) Case Studies (Weight 25%) Case Studies (Weight 25%)	
CPL-7 (KK3)			Quiz (Weight 10%) Case Studies (Weight 25%) Case Studies (Weight 25%)	Independent Assignment (Weight 15%)
CPL-9 (S2)				Independent Assignment (Weight 15%)

Evaluation Type and Assessment Weight

Type	Assessment Weight
Independent Assignment	30
Quiz	20
Case Studies	50
Total	100

Assessment and Evaluation of Student Achievement of CLOs

SLOs that are charged on the Course	CLO	SUB CLO	Form of Assessment*				Weight	Value	Student Score
			Formative	Sumative					
				Independent Assignment	Quiz	Case Studies			
SLO-6	CLO-2	SUB-CLO-2	Short question and answer	15	0	0	15		
SLO-7	CLO-3	SUB-CLO-3	Question and answer	0	10	0	10		
SLO-6	CLO-2	SUB-CLO-4	Question and answer	0	0	25	25		
SLO-7	CLO-4	SUB-CLO-6	Question and answer	15	0	0	15		
SLO-1	CLO-1	SUB-CLO-8	Question and answer	0	10	0	10		
SLO-7	CLO-3	SUB-CLO-11	Question and answer	0	0	25	25		
				30	20	50	100		

Lampiran Rubrik 01 | ASSESMENT TERTULIS

Kriteria Penilaian	Bobot/Skor Penilaian				
	5	4	3	2	1/0
Konsep/ metode yang digunakan	Penjelasan konsep /metode (*) sangat lengkap dan akurat	Penjelasan konsep/metode (*) cukup jelas tetapi beberapa informasi tidak dituliskan secara lengkap.	Penjelasan konsep/metode (*) kurang jelas dan banyak informasi yang tidak dituliskan	Penjelasan yang dituliskan hampir tidak berkaitan dengan konsep/ metode (*)	Tidak memberikan konsep yang dibutuhkan
Sistematika penulisan/ pembuktian	Sistematika penulisan/ pembuktian sangat jelas dan terstruktur	Sistematika penulisan/ pembuktian cukup jelas namun ada langkah yang hilang	Sistematika penulisan/ pembuktian kurang jelas	Sistematika penulisan/ pembuktian tidak jelas	Jawaban tidak benar/ tidak ada
Interpretasi geometri/ kualitatif/ kuantitatif.	Interpretasi geometri/ kualitatif/ kuantitatif (*) tepat dan lengkap	Interpretasi geometri/ kualitatif/ kuantitatif (*) cukup lengkap/ tepat	Interpretasi geometri/ kualitatif/ kuantitatif (*) kurang lengkap/ tepat	Interpretasi geometri/ kualitatif/ kuantitatif(*) tidak lengkap/ tepat	Interpretasi geometri/ kualitatif/kuantitatif(*) tidak benar
Perhitungan/kesimpulan	Perhitungan/ kesimpulan sangat akurat/tepat dan disertai alasan yang mendasarinya	Perhitungan/ kesimpulan cukup akurat/tepat dan disertai alasan yang mendasarinya	Kesimpulan cukup tepat, namun tidak disertai alasan yang jelas	Perhitungan/ kesimpulan kurang akurat/tepat dan tidak disertai alasan yang mendasarinya	Perhitungan/kesimpulan salah

Lampiran Rubrik 03 | ASSESMENT MAKALAH

Kriteria Penilaian	Bobot/Skor Penilaian				
	5	4	3	2	1
Sistematika dan kelengkapan penulisan	Mahasiswa menyusun laporan dengan sistematika yang sangat sesuai dengan format yang diberikan dan sangat lengkap	Mahasiswa menyusun laporan dengan sistematika yang sesuai dengan format yang diberikan dan lengkap	Mahasiswa menyusun laporan dengan sistematika yang cukup sesuai dengan format yang diberikan dan cukup lengkap	Mahasiswa menyusun laporan dengan sistematika yang kurang sesuai dengan format yang diberikan dan kurang lengkap	Mahasiswa menyusun laporan dengan sistematika yang tidak sesuai dengan format yang diberikan dan tidak lengkap
Kebenaran konsep ide yang dipaparkan	Mahasiswa menyusun makalah dengan konsep/ide yang dipaparkan dengan sangat tepat (sesuai dengan teori)	Mahasiswa menyusun makalah dengan konsep/ide yang dipaparkan dengan tepat	Mahasiswa menyusun makalah dengan konsep/ide yang dipaparkan dengan cukup tepat	Mahasiswa menyusun makalah dengan konsep/ide yang dipaparkan dengan kurang tepat	Mahasiswa menyusun makalah dengan konsep/ide yang dipaparkan dengan tidak tepat
Interpretasi metode dengan permasalahan yang dikaji	Mahasiswa sangat mampu mengidentifikasi relevansi metode dengan permasalahan yang dikaji	Mahasiswa mampu mengidentifikasi relevansi metode dengan permasalahan yang dikaji	Mahasiswa cukup mampu mengidentifikasi relevansi metode dengan permasalahan yang dikaji	Mahasiswa kurang mampu mengidentifikasi relevansi metode dengan permasalahan yang dikaji	Mahasiswa tidak mampu mengidentifikasi relevansi metode dengan permasalahan yang dikaji
Validitas Referensi – VR	Mahasiswa menggunakan referensi yang sangat <i>up to date</i> dan sangat relevan	Mahasiswa menggunakan referensi yang <i>up to date</i> dan relevan	Mahasiswa menggunakan referensi yang cukup <i>up to date</i> dan cukup relevan	Mahasiswa menggunakan referensi yang kurang <i>up to date</i> dan kurang relevan	Mahasiswa menggunakan referensi yang tidak <i>up to date</i> dan tidak relevan
Ketepatan waktu	Mahasiswa mengumpulkan makalah tepat waktu atau sebelum batas waktu yang ditentukan.	Mahasiswa mengumpulkan makalah lewat 1 hari dari batas waktu yang ditentukan.	Mahasiswa mengumpulkan makalah lewat 2 hari dari batas waktu yang ditentukan.	Mahasiswa mengumpulkan makalah lewat 3 hari dari batas waktu yang ditentukan.	Mahasiswa mengumpulkan makalah lewat 4 hari atau lebih dari batas waktu yang ditentukan.