

SEMESTER LEARNING PLAN

**INDEPENDENT RESEARCH COURSES
(23U02133020)**



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-8 (S1) - The students have integrity that highly values the supreme divinity, social responsibility, and professional ethics

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

Course Learning Outcomes (CLO)

CPMK-1: Students are able to work together and have social sensitivity, as well as concern for community problems and the environment (CPL8)

CPMK-2: Students are able to apply logical, critical, systematic, and innovative thinking in the context of the development or implementation of science and technology that pay attention and apply the value of humanities in accordance with their scientific fields (CPL8)

CPMK-3: Students are able to use technology for the development/implementation of technology science based on rules, procedures and scientific ethics in order to produce solutions (CPL9)

CPMK-4: Students are able to write research reports and be able to disseminate research results (CPL9)

Sub-CLO

Sub CPMK-1: Students are able to recognize problems in the community and the surrounding environment based on the concept of scientific thinking (CPMK-1)

Sub CPMK-2: Students are able to design research as an alternative solving a problem based on scientific ethics (CPMK-2)

Sub CPMK-3: Students are able to carry out research methods for solving problems under study/appointed in a joint research (CPMK-3)

Sub CPMK-4: Students are able to compile project/research reports and disseminate research results (CPMK-4)

Learning Analytics

Independent Research



Students are able to compile project/research reports and disseminate research results (CPMK-4)



Students are able to carry out research methods for solving problems under study/appointed in a joint research (CPMK-3)



Students are able to design research as an alternative solving a problem based on scientific ethics (CPMK-2)



Students are able to recognize problems in the community and the surrounding environment based on the concept of scientific thinking (CPMK-1)



HASANUDDIN UNIVERSITY

FAKULTY OF MATHEMATICS AND NATURAL SCIENCES

STUDY PROGRAM OF MATHEMATICS - S1

SEMESTER LEARNING PLAN

Course		Code	Course Group	Credits	SEMESTER	Compilation Date
Independent Research		23U02133020	MKPK	20	6	10 Februari 2022
AUTHORITY		SLP Developer Lecturer	Coordinator		Head of Study Program	
		Dr. Mahatma, ST., M.Sc., Sahriyanti Saad, S.Hut.,M.Si.,Ph.D.				
Learning Outcomes Course	SLOs that are imposed on the course					
	SLO-8:	Mahasiswa memiliki integritas yang sangat menghargai keilahian tertinggi, tanggung jawab sosial, dan etika profesional				
	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 ⇒ Course Learning Outcomes					
	After completing this course, it is expected:					
	SLO-8	CLO-1: Students are able to work together and have social sensitivity, as well as concern for community problems and the environment				
		CLO-2: Students are able to apply logical, critical, systematic, and innovative thinking in the context of the development or implementation of science and technology that pay attention and apply the value of humanities in accordance with their scientific fields				
	SLO-9	CLO-3: Students are able to use technology for the development/implementation of technology science based on rules, procedures and scientific ethics in order to produce solutions				
		CLO-4: Students are able to write research reports and be able to disseminate research results				
	CLO ⇒ Sub-CLO					
	CLO-1	Sub-CLO-1:Students are able to recognize problems in the community and the surrounding environment based on the concept of scientific thinking				
	CLO-2	Sub-CLO-2:Students are able to design research as an alternative solving a problem based on scientific ethics				
	CLO-3	Sub-CLO-3:Students are able to carry out research methods for solving problems under study/appointed in a joint research				
	CLO-4	Sub-CLO-4:Students are able to compile project/research reports and disseminate research results				
	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	Project Based	Project Report			
SLO-8	CLO-1	SUB-CLO-1	Clarity and accuracy in describing problems found in society and the environment	20	0	0	20		
SLO-8	CLO-2	SUB-CLO-2	Conformity and clarity of the design document to the problem being raised	0	15	0	15		
SLO-9	CLO-3	SUB-CLO-3	Suitability of implementing research methods as designed and clarity of research activities in the logbook	0	50	0	50		
SLO-9	CLO-4	SUB-CLO-4	Clarity, accuracy and conformity of reports/publications of research/project results with the design	0	0	15	15		
				20	65	15	100		
Course Description		This course aims to provide students with experience in joint research projects so that students gain competency in conducting research through supervision by researchers at research centers/institutions/agencies both internal and external.							
Learning Materials/Subjects		1. Concept identify problems with a scientific approach 2. Design research 3. Methods research 4. Analysis data 5. Concept writing research reports/scientific papers							
Reference		Main References							
		Gagal diterjemahkan							
		Additional References							
		Gagal diterjemahkan							
Teaching Team		Naimah Aris, S.Si.,M.Math., Dr. Firman, S.Si.,M.Si.							
Course requirement									
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	Students are able to recognize problems in the community and the surrounding environment based on the concept of scientific thinking (CPMK-1)	Formative: Finding problems that can be solved using scientific thinking concepts Sumative: Gagal diterjemahkan	Formative Criteria: Clarity and accuracy in describing problems found in society and the environment Sumative Criteria: Independent Assignment (20) Assessment Technique: Gagal diterjemahkan	Studying: Group discussion (Small Group Discussion) Shape: <ul style="list-style-type: none"> Stare Face Method: <ul style="list-style-type: none"> Literature Study Team discussion 3 Weeks = 105 Hours	Studying: Discovery Learning Shape: Meeting via online- face to face Method: <ul style="list-style-type: none"> Discussion Consultation with DPL 3 Weeks = 105 Hours	The concept of problem identification with a scientific approach	20
2	Students are able to design research as an alternative solving a problem based on scientific ethics (CPMK-2)	Formative: Design and compile research design documents Sumative: Gagal diterjemahkan	Formative Criteria: Conformity and clarity of the design document to the problem being raised Sumative Criteria: Project Based (15) Assessment Technique: Gagal diterjemahkan	Studying: Group discussion (Small Group Discussion), Problem-Based Learning (Problem-based Learning) Shape: <ul style="list-style-type: none"> Stare Face Tutorial Method: <ul style="list-style-type: none"> Discussion team Project based Learning Assignment: Writing a draft research 2 Weeks = 70 Hours	Studying: Discovery Learning Shape: Meeting via online- face to face Method: <ul style="list-style-type: none"> Discussion Consultation with DPL 2 Weeks = 70 Hours	Research design	15

3	Students are able to carry out research methods for solving problems under study/appointed in a joint research (CPMK-3)	<p>Formative:</p> <p>Collecting data, processing data, analyzing, interpreting research results and drawing conclusion</p> <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Suitability of implementing research methods as designed and clarity of research activities in the logbook</p> <p>Sumative Criteria:</p> <p>Project Based (50)</p> <p>Assessment Technique:</p> <p>Gagal diterjemahkan</p>	<p>Practicum, Studio Practice, Workshop Practice, Field Practice:</p> <p>Group discussion (Small Group Discussion), Case Study (Case Study), Problem-Based Learning (Problem-based Learning)</p> <p>Shape:</p> <ul style="list-style-type: none"> Practice field Observations <p>Method:</p> <ul style="list-style-type: none"> Project based learning Case study/ Analysis Small Group Discussion <p>420 Hours</p>	<p>Studying:</p> <p>Discovery Learning</p> <p>Shape: Meeting via online- face to face</p> <p>Method:</p> <ul style="list-style-type: none"> Discussion Consultation with DPL <p>420 Hours</p>	Research methods	50
4	Students are able to compile project/research reports and disseminate research results (CPMK-4)	<p>Formative:</p> <p>Prepare research/project reports according to the specified time</p> <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Clarity, accuracy and conformity of reports/publications of research/project results with the design</p> <p>Sumative Criteria:</p> <p>Project Report (15)</p> <p>Assessment Technique:</p> <p>Gagal diterjemahkan</p>	<p>Seminar:</p> <p>Group discussion (Small Group Discussion), Case Study (Case Study), Project-Based Learning (Project-based Learning)</p> <p>Gagal diterjemahkan</p> <p>210 Hours</p>	<p>Studying:</p> <p>Discovery Learning</p> <p>Shape: Meeting via online- face to face</p> <p>Method:</p> <ul style="list-style-type: none"> Discussion Consultation with DPL <p>210 Hours</p>	Gagal diterjemahkan	15
							100

Matrix of SLO, CLO, and Assessment Method

SLO / CLO	CLO-1	CLO-2	CLO-3	CLO-4
CPL-8 (S1)	Independent Assignment (Weight 20%)	Project Based (Weight 15%)		
CPL-9 (S2)			Project Based (Weight 50%)	Project Report (Weight 15%)

Evaluation Type and Assessment Weight

Type	Assessment Weight
Independent Assignment	20
Project Based	65
Project Report	15
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	Project Based	Project Report			
SLO-8	CLO-1	SUB-CLO-1	Clarity and accuracy in describing problems found in society and the environment	20	0	0	20		
SLO-8	CLO-2	SUB-CLO-2	Conformity and clarity of the design document to the problem being raised	0	15	0	15		
SLO-9	CLO-3	SUB-CLO-3	Suitability of implementing research methods as designed and clarity of research activities in the logbook	0	50	0	50		
SLO-9	CLO-4	SUB-CLO-4	Clarity, accuracy and conformity of reports/publications of research/project results with the design	0	0	15	15		
				20	65	15	100		

SEMESTER LEARNING PLAN

**PRACTICES IN THE WORLD OF BUSINESS AND THE WORLD OF INDUSTRY COURSES
(23U02133520)**



TEACHING TEAM

Naimah Aris, S.Si.,M.Math.
197110031997022001

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196804292002121001

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

**STUDY PROGRAM OF MATEMATIKA - S1
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
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To fulfill the above vision, the Undergraduate Mathematics Study Program has four missions, namely:

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- 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-8 (S1) - The students have integrity that highly values the supreme divinity, social responsibility, and professional ethics

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

Course Learning Outcomes (CLO)

CPMK-1: Internalize the ethics of communication, collaboration and social interaction (Attitude) (CPL8)

CPMK-2: Developing leadership, soft skills and character in innovating and collaborating within the scope of the world of work and business to improve the quality of learning (Special Skills) (CPL9)

CPMK-3: Have critical thinking skills in collaborating across fields of science (Special Skills); (CPL9)

CPMK-4: Maintain and develop work networks, with mentors, colleagues and peers (General Skills). (CPL9)

Sub-CLO

Sub CPMK-1: Students are able to explain the concepts and scope of work practices of the business world and the industrial world (CPMK-2)

Sub CPMK-2: Students identify problems and find solutions in the scope of the company where the business world and the industrial world (CPMK-3)

Sub CPMK-3: Students are able to design work programs within the scope of the world of work and the business world (CPMK-2)

Sub CPMK-4: Students are able to design and implement practical work programs in their respective practices (CPMK-2)

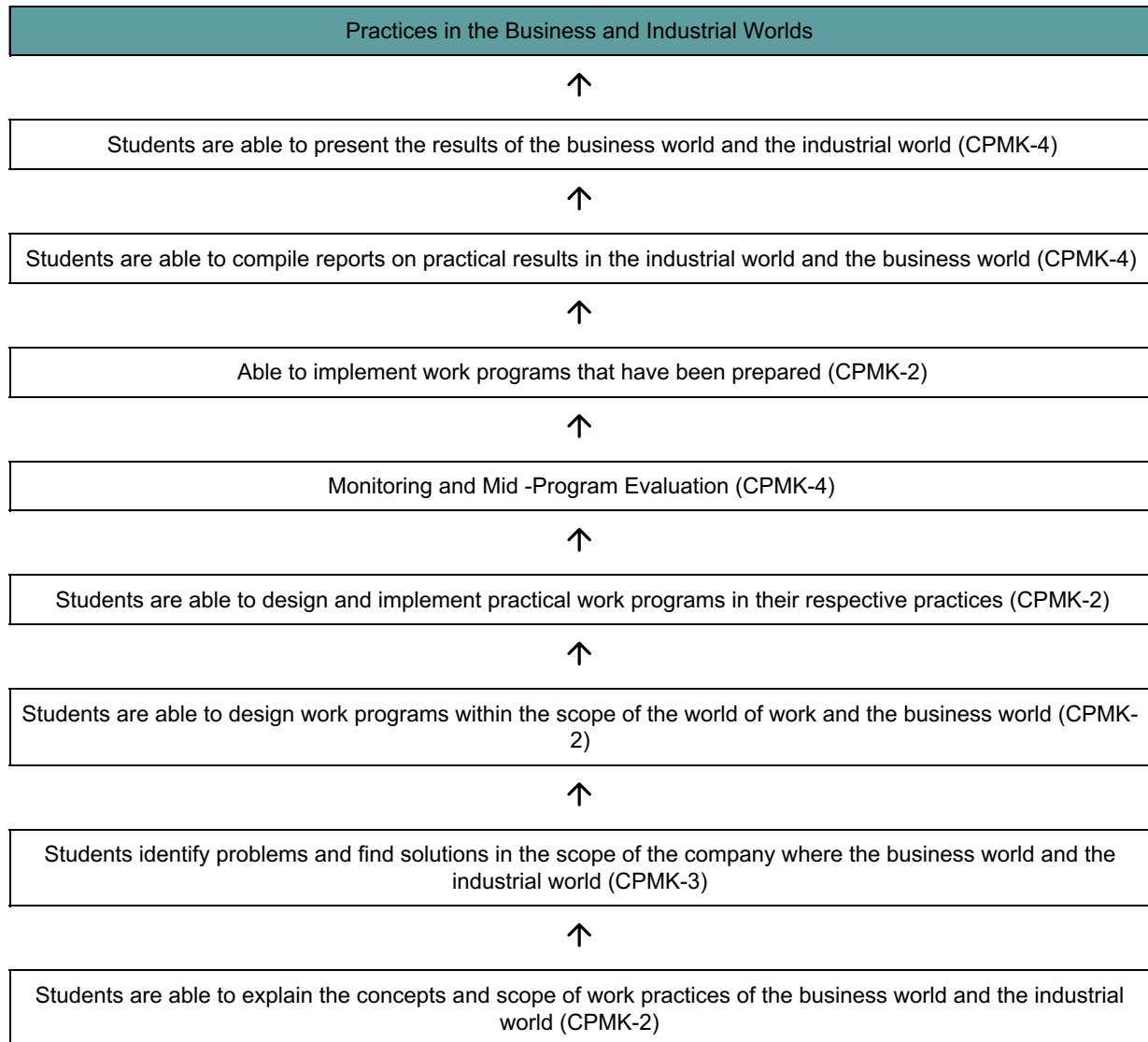
Sub CPMK-5: Monitoring and Mid -Program Evaluation (CPMK-4)

Sub CPMK-6: Able to implement work programs that have been prepared (CPMK-2)

Sub CPMK-7: Students are able to compile reports on practical results in the industrial world and the business world (CPMK-4)

Sub CPMK-8: Students are able to present the results of the business world and the industrial world (CPMK-4)

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
Practices in the Business and Industrial Worlds		23U02133520		20	6	2 November 2022
AUTHORITY		SLP Developer Lecturer		Coordinator		Head of Study Program
		Dr. Ir. A. Amidah Amrawaty, S.Pt.,M.Si., IPM., Abdullah Sanusi, SE. MBA.,Ph.D.		Dr. Firman, S.Si.,M.Si.		Dr. Firman, S.Si.,M.Si.
Learning Outcomes Course	SLOs that are imposed on the course					
	SLO-8:	Mahasiswa memiliki integritas yang sangat menghargai keilahian tertinggi, tanggung jawab sosial, dan etika profesional				
	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 ⇒ Course Learning Outcomes					
	After completing this course, it is expected:					
	SLO-8	CLO-1: Internalize the ethics of communication, collaboration and social interaction (Attitude)				
	SLO-9	CLO-2: Developing leadership, soft skills and character in innovating and collaborating within the scope of the world of work and business to improve the quality of learning (Special Skills)				
		CLO-3: Have critical thinking skills in collaborating across fields of science (Special Skills);				
		CLO-4: Maintain and develop work networks, with mentors, colleagues and peers (General Skills).				
	CLO ⇒ Sub-CLO					
	CLO-2	Sub-CLO-1:Students are able to explain the concepts and scope of work practices of the business world and the industrial world				
		Sub-CLO-3:Students are able to design work programs within the scope of the world of work and the business world				
		Sub-CLO-4:Students are able to design and implement practical work programs in their respective practices				
		Sub-CLO-6:Able to implement work programs that have been prepared				
	CLO-3	Sub-CLO-2:Students identify problems and find solutions in the scope of the company where the business world and the industrial world				
	CLO-4	Sub-CLO-5:Monitoring and Mid -Program Evaluation				
Sub-CLO-7:Students are able to compile reports on practical results in the industrial world and the business world						

Sub-CLO-8:Students are able to present the results of the business world and the industrial world

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						
				Group Discussion	Case Studies	Project Based	Presentation			
SLO-9	CLO-2	SUB-CLO-1	Understanding of the material and culture in the company where the world of business and industry practices	10	0	0	0	10		
SLO-9	CLO-3	SUB-CLO-2	Understanding of existing problems and alternative problem solving solutions	0	10	0	0	10		
SLO-9	CLO-2	SUB-CLO-3	Understanding of work program formulation	0	10	0	0	10		
SLO-9	CLO-2	SUB-CLO-4	Understanding of work program implementation	0	0	25	0	25		
SLO-9	CLO-4	SUB-CLO-5	Documentation and clarity of framework flow/stages as well as accuracy of solutions/follow-up	0	0	0	0	0		
SLO-9	CLO-2	SUB-CLO-6	Understanding of the series of practical program implementation activities in the business and industrial world	0	0	25	0	25		
SLO-9	CLO-4	SUB-CLO-7	Accuracy and mastery of material in making reports	0	10	0	0	10		
SLO-9	CLO-4	SUB-CLO-8	Accuracy and mastery of material in making reports	10	0	0	0	10		
				20	30	50	0	100		
Course Description		Eyes college this is a student assignment to work in a company or institution or agency for a certain period which is equivalent to a maximum of 20 credits. An internship/internship is an extracurricular activity that requires students to carry out observations and work practices in companies/agencies or institutions. Internships are an effort to increase students' knowledge, insight and skills as prospective undergraduate students								
Learning Materials/Subjects		1. Book Free Learning Guide for Independent Campuses-Directorate General of Higher Education, Ministry of Education and Culture 2020 2. Rules Chancellor regarding Learning outside the Study Program 3. etc								
		Main References								
		Gagal diterjemahkan								

Reference		Additional References					
		Gagal diterjemahkan					
Teaching Team		Naimah Aris, S.Si.,M.Math., Dr. Firman, S.Si.,M.Si.					
Course requirement							
Week	Sub CPMK (End-of-stage learning ability)	Penilaian (<i>Assesment</i>)		Learning Forms and Methods [time estimate]		Content	Weight of Assessment (%)
		Indicator	Techniques & Criteria	Offline	Online		
1	2	3	4	5	6	7	8
1	Students are able to explain the concepts and scope of work practices of the business world and the industrial world (CPMK-2)	Formative: Gagal diterjemahkan Sumative: <ul style="list-style-type: none"> • Activity • Presence in meeting • Ability in communicate • Ability to express opinions/fruits mind 	Formative Criteria: Understanding of the material and culture in the company where the world of business and industry practices Sumative Criteria: Group Discussion (10) Assessment Technique: Non Test	Studying: Group discussions (Small Group Discussion), Collaborative Learning (Collaborative Learning) Shape: <ul style="list-style-type: none"> • Face to Face • Lecture Method: <ul style="list-style-type: none"> • Team Discussion • Collaborative Learning 7 days (56 hours)	Studying: Group discussion (Small Group Discussion) Shape: Face virtual Method: <ul style="list-style-type: none"> • Discussion • Consultation with DPL/Supervisor 	Study contract and introduction to internships and practical work	10

2	Students identify problems and find solutions in the scope of the company where the business world and the industrial world (CPMK-3)	<p>Formative:</p> <p>Gagal diterjemahkan</p> <p>Sumative:</p> <p>Accuracy in formulating problems and alternative solutions to solving problems</p>	<p>Formative Criteria:</p> <p>Understanding of existing problems and alternative problem solving solutions</p> <p>Sumative Criteria:</p> <p>Case Studies (10)</p> <p>Assessment Technique:</p> <p>Non Test</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion), Case Study (Case Study), Cooperative learning (Cooperative learning), Collaborative learning (Collaborative Learning)</p> <p>Shape:</p> <ul style="list-style-type: none"> • Response • Tutorial <p>Method:</p> <ul style="list-style-type: none"> • Small Group Discussion • Cooperative/ • Collaborative Learning • Case Study <p>7 days (56 hours)</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion)</p> <p>Shape:</p> <p>Virtual face</p> <p>Method:</p> <ul style="list-style-type: none"> • Discussion • Consultation with DPL/Supervisor 	Methods and stages of problem identification and methods of formulating problem solutions	10
3	Students are able to design work programs within the scope of the world of work and the business world (CPMK-2)	<p>Formative:</p> <p>Gagal diterjemahkan</p> <p>Sumative:</p> <p>Ability to design work programs according to company needs</p>	<p>Formative Criteria:</p> <p>Understanding of work program formulation</p> <p>Sumative Criteria:</p> <p>Case Studies (10)</p> <p>Assessment Technique:</p> <p>Non Test</p>	<p>Studying:</p> <p>Case Study, Project-Based Learning</p> <p>Shape:</p> <ul style="list-style-type: none"> • Face to Face • Observation <p>Method:</p> <ul style="list-style-type: none"> • Case study • Project Based Learning • Discussion <p>10 days (80 hours)</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion)</p> <p>Shape:</p> <p>Virtual face</p> <p>Method:</p> <ul style="list-style-type: none"> • Discussion • Consult with DPL/Supervisor 	Methods for preparing work programs, preparation guide preliminary report and preliminary report presentation techniques	10

4	Students are able to design and implement practical work programs in their respective practices (CPMK-2)	Formative: Gagal diterjemahkan Sumative: Ability integrating work programs	Formative Criteria: Understanding of work program implementation Sumative Criteria: Project Based (25) Assessment Technique: Non Test	Practicum, Studio Practice, Workshop Practice, Field Practice: Case Study, Project-Based Learning Shape: • Field Practice • Practice in the world of work and the world effort Method: • Discussion • Project Based learning • Case Study 30 days (240 hours)	Studying: Group discussion (Small Group Discussion) Shape: Virtual face Method: • Discussion • Consult with DPL/Supervisor	Final report preparation format guide	25
5	Monitoring and Mid -Program Evaluation (CPMK-4)	Formative: Gagal diterjemahkan Sumative: <ul style="list-style-type: none"> • Ability to reflect on implementation program • Ability to provide action responses continued • Activity in initiative, cooperation team 	Formative Criteria: Documentation and clarity of framework flow/stages as well as accuracy of solutions/follow-up Sumative Criteria: Presentation (0) Assessment Technique: Gagal diterjemahkan	Seminar: Case Study, Collaborative Learning Shape: Seminar Method: • Presentation and discussion • Case study • Collaborative learning 1 day (8 hours)	Studying: Group discussion (Small Group Discussion) Shape: Virtual face Method: • Discussion • Consult with DPL/Supervisor	Gagal diterjemahkan	0

6	Able to implement work programs that have been prepared (CPMK-2)	Formative: Gagal diterjemahkan Sumative: Ability to integrate work programs	Formative Criteria: Understanding of the series of practical program implementation activities in the business and industrial world Sumative Criteria: Project Based (25) Assessment Technique: Non Test	Practicum, Studio Practice, Workshop Practice, Field Practice: Project-Based Learning (Project-based Learning) Shape: <ul style="list-style-type: none"> Practice field in the world of work and business Method: <ul style="list-style-type: none"> Discussion Project based learning 30 days (240 hours)	Studying: Group discussion (Small Group Discussion) Shape: Virtual face Method: <ul style="list-style-type: none"> Discussion Consult with DPL/Supervisor 	Guidelines for implementing participatory and empowerment-based work programs	25
7	Students are able to compile reports on practical results in the industrial world and the business world (CPMK-4)	Formative: Gagal diterjemahkan Sumative: Ability to prepare activity reports	Formative Criteria: Accuracy and mastery of material in making reports Sumative Criteria: Case Studies (10) Assessment Technique: Non Test	Practicum, Studio Practice, Workshop Practice, Field Practice: Case Study, Project-Based Learning Shape: Field Practice Method: <ul style="list-style-type: none"> Case study Project Based Learning 7 days (56 hours)	Studying: Group discussion (Small Group Discussion) Shape: Virtual face Method: <ul style="list-style-type: none"> Discussion Consult with DPL/Supervisor 	Guidelines and format for preparing reports and presentation procedures	10

8	Students are able to present the results of the business world and the industrial world (CPMK-4)	Formative: Gagal diterjemahkan Sumative: Ability to convey the results of practical activities	Formative Criteria: Accuracy and mastery of material in making reports Sumative Criteria: Group Discussion (10) Assessment Technique: Gagal diterjemahkan	Studying: Group discussion (Small Group Discussion), Cooperative learning (Cooperative learning), Collaborative learning (Collaborative Learning) Shape; Face to face Method: <ul style="list-style-type: none"> • Discussion • Collaborative and cooperative learning 7 days (56 hours)	Studying: Group discussion (Small Group Discussion) Shape: Virtual face Method: <ul style="list-style-type: none"> • Discussion • Consult with DPL/Supervisor 	Guidelines and format for preparing the final report and procedures for presenting the final report	10
							100

Matrix of SLO, CLO, and Assessment Method

SLO / CLO	CLO-2	CLO-3	CLO-4
CPL-8 (S1)			
CPL-9 (S2)	Group Discussion (Weight 10%) Case Studies (Weight 10%) Project Based (Weight 25%) Project Based (Weight 25%)	Case Studies (Weight 10%)	Presentation Case Studies (Weight 10%) Group Discussion (Weight 10%)

Evaluation Type and Assessment Weight

Type	Assessment Weight
Group Discussion	20
Case Studies	30
Project Based	50
Presentation	0
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						
				Group Discussion	Case Studies	Project Based	Presentation			
SLO-9	CLO-2	SUB-CLO-1	Understanding of the material and culture in the company where the world of business and industry practices	10	0	0	0	10		
SLO-9	CLO-3	SUB-CLO-2	Understanding of existing problems and alternative problem solving solutions	0	10	0	0	10		
SLO-9	CLO-2	SUB-CLO-3	Understanding of work program formulation	0	10	0	0	10		
SLO-9	CLO-2	SUB-CLO-4	Understanding of work program implementation	0	0	25	0	25		
SLO-9	CLO-4	SUB-CLO-5	Documentation and clarity of framework flow/stages as well as accuracy of solutions/follow-up	0	0	0	0	0		
SLO-9	CLO-2	SUB-CLO-6	Understanding of the series of practical program implementation activities in the business and industrial world	0	0	25	0	25		
SLO-9	CLO-4	SUB-CLO-7	Accuracy and mastery of material in making reports	0	10	0	0	10		
SLO-9	CLO-4	SUB-CLO-8	Accuracy and mastery of material in making reports	10	0	0	0	10		
				20	30	50	0	100		

SEMESTER LEARNING PLAN

**DEVELOPMENT OF CREATIVITY AND INNOVATION COURSES
(23U02133120)**



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-8 (S1) - The students have integrity that highly values the supreme divinity, social responsibility, and professional ethics

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

Course Learning Outcomes (CLO)

CPMK-1: Able to apply hard-skill and soft skills abilities in team-work and multidisciplinary, in managing and managing/developing the potential of the village as a solution to the problems in the village, (CPL8)

CPMK-2: Able to make the right decisions based on information analysis and data in the field of development of development and social change in rural communities, (CPL8)

CPMK-3: Able to master the system, process identification of problems and analytical methods and knowledge in the application of information technology, relevant communication as a tool in solving problems in the field. (CPL9)

CPMK-4: Able to examine the implications of the development of science and technology that pay attention to and apply humanities in accordance with their expertise based on the rules, procedures and scientific ethics in order to produce solutions, ideas, designs or art criticisms (CPL9)

Sub-CLO

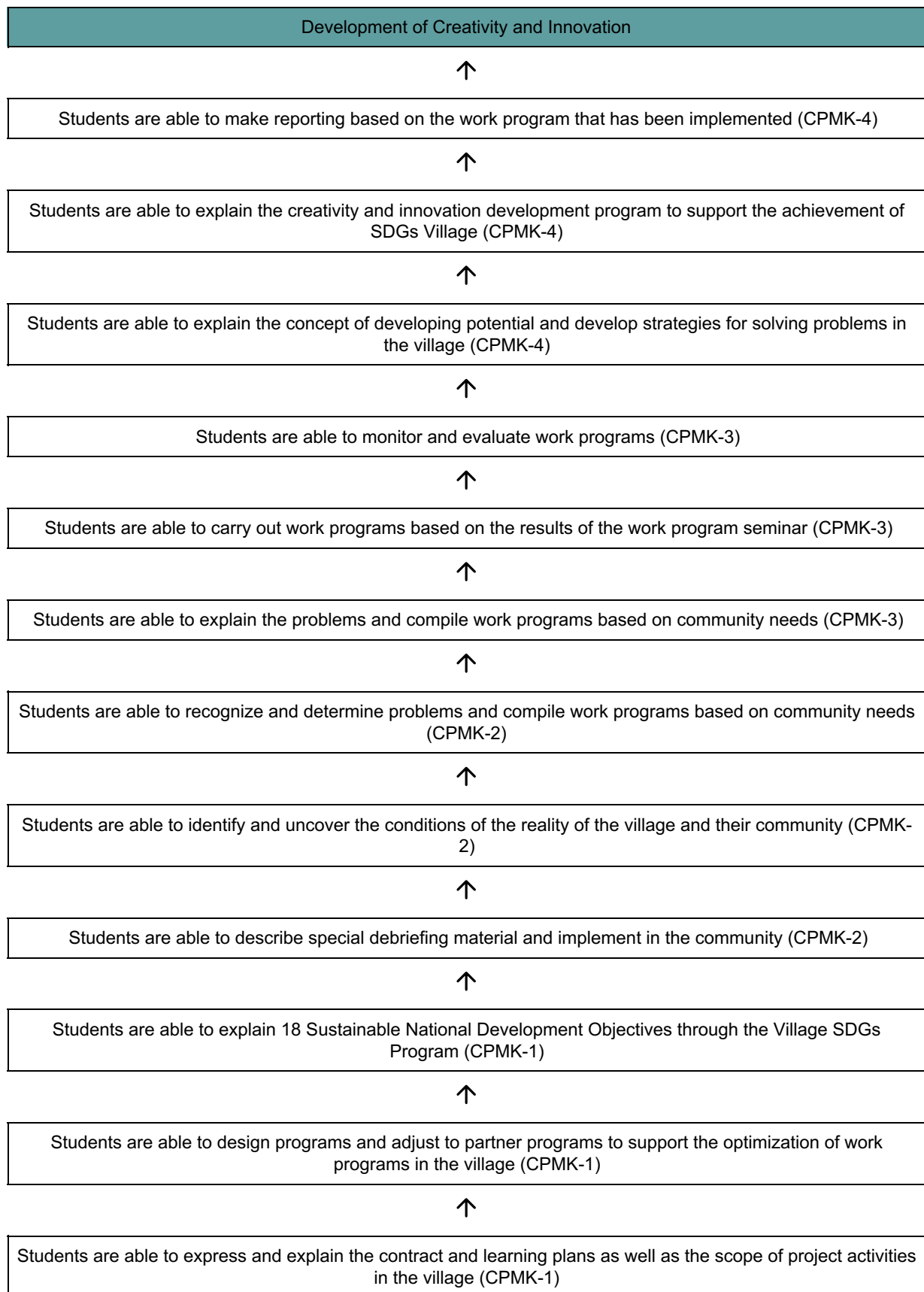
Sub CPMK-1: Students are able to express and explain the contract and learning plans as well as the scope of project activities in the village (CPMK-1)

Sub CPMK-2: Students are able to design programs and adjust to partner programs to support the optimization of work programs in the village (CPMK-1)

Sub CPMK-3: Students are able to explain 18 Sustainable National Development Objectives through the Village SDGs Program (CPMK-1)

- Sub CPMK-4: Students are able to describe special debriefing material and implement in the community (CPMK-2)
- Sub CPMK-5: Students are able to identify and uncover the conditions of the reality of the village and their community (CPMK-2)
- Sub CPMK-6: Students are able to recognize and determine problems and compile work programs based on community needs (CPMK-2)
- Sub CPMK-7: Students are able to explain the problems and compile work programs based on community needs (CPMK-3)
- Sub CPMK-8: Students are able to carry out work programs based on the results of the work program seminar (CPMK-3)
- Sub CPMK-9: Students are able to monitor and evaluate work programs (CPMK-3)
- Sub CPMK-10: Students are able to explain the concept of developing potential and develop strategies for solving problems in the village (CPMK-4)
- Sub CPMK-11: Students are able to explain the creativity and innovation development program to support the achievement of SDGs Village (CPMK-4)
- Sub CPMK-12: Students are able to make reporting based on the work program that has been implemented (CPMK-4)

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			
Development of Creativity and Innovation		23U02133120	MKPK	20	6		22 Februari 2022			
AUTHORITY		SLP Developer Lecturer			Coordinator			Head of Study Program		
		Muhammad Kurnia, S.Pi., M.Sc., Ph.D						Dr. Firman, S.Si.,M.Si.		
Learning Outcomes Course	SLOs that are imposed on the course									
	SLO-8:	Mahasiswa memiliki integritas yang sangat menghargai keilahian tertinggi, tanggung jawab sosial, dan etika profesional								
	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 ⇒ Course Learning Outcomes									
	After completing this course, it is expected:									
	SLO-8	CLO-1: Able to apply hard-skill and soft skills abilities in team-work and multidisciplinary, in managing and managingdeveloping the potential of the village as a solution to the problems in the village,								
		CLO-2: Able to make the right decisions based on information analysis and data in the field of development of development and social change in rural communities,								
	SLO-9	CLO-3: Able to master the system, process identification of problems and analytical methods and knowledge in the application of information technology, relevant communication as a tool in solving problems in the field.								
		CLO-4: Able to examine the implications of the development of science and technology that pay attention to and apply humanities in accordance with their expertise based on the rules, procedures and scientific ethics in order to produce solutions, ideas, designs or art criticisms								
	CLO ⇒ Sub-CLO									
	CLO-1	Sub-CLO-1:Students are able to express and explain the contract and learning plans as well as the scope of project activities in the village								
		Sub-CLO-2:Students are able to design programs and adjust to partner programs to support the optimization of work programs in the village								
		Sub-CLO-3:Students are able to explain 18 Sustainable National Development Objectives through the Village SDGs Program								
	CLO-2	Sub-CLO-4:Students are able to describe special debriefing material and implement in the community								
		Sub-CLO-5:Students are able to identify and uncover the conditions of the reality of the village and their community								
		Sub-CLO-6:Students are able to recognize and determine problems and compile work programs based on community needs								
	CLO-3	Sub-CLO-7:Students are able to explain the problems and compile work programs based on community needs								
		Sub-CLO-8:Students are able to carry out work programs based on the results of the work program seminar								
		Sub-CLO-9:Students are able to monitor and evaluate work programs								
	CLO-4	Sub-CLO-10:Students are able to explain the concept of developing potential and develop strategies for solving problems in the village								
		Sub-CLO-11:Students are able to explain the creativity and innovation development program to support the achievement of SDGs Village								
		Sub-CLO-12:Students are able to make reporting based on the work program that has been implemented								
	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								
				Group Discussion	Short Q&A	Case Studies	Presentation	Project Based				Project Report
SLO-8	CLO-1	SUB-CLO-1	Punctuality, mastery of the material received	4	0	0	0	0	0	4		
SLO-8	CLO-1	SUB-CLO-2	Visits, Discussions and Coordination with Partners.	5	0	0	0	0	0	5		
SLO-8	CLO-1	SUB-CLO-3	Accuracy, understanding, and mastery of the material	4	0	0	0	0	0	4		
SLO-8	CLO-2	SUB-CLO-4	Communication skills, Activeness in discussions, Accuracy in explanations and Systematic and logical	0	10	0	0	0	0	10		

SLOs that are charged on the Course	CPMK	SUB CPMK	Form of Assessment*							Weight	Value	Student Score
			Formative	Sumative								
				Group Discussion	Short Q&A	Case Studies	Presentation	Project Based	Project Report			
SLO-8	CLO-2	SUB-CLO-5	Understanding and mastery of material	10	0	0	0	0	0	10		
SLO-8	CLO-2	SUB-CLO-6	Implementation of identification	0	0	10	0	0	0	10		
SLO-9	CLO-3	SUB-CLO-7	Understanding and mastery of material	0	0	0	4	0	0	4		
SLO-9	CLO-3	SUB-CLO-8	Achievement of objectives and implementation of activity programs	0	0	0	0	10	0	10		
SLO-9	CLO-3	SUB-CLO-9	Discipline, Activeness and Communication and Interaction	0	0	0	4	0	0	4		
SLO-9	CLO-4	SUB-CLO-10	Active discussion and mastery of material	0	0	0	0	10	0	10		
SLO-9	CLO-4	SUB-CLO-11	Activeness, Communication, Cooperation and Completeness of program implementation	0	0	0	4	0	0	4		
SLO-9	CLO-4	SUB-CLO-12	conformity with the final reporting format, final report, logbook and documentation, the substance of the report contains all stages from start to finish and the systematics of the report	0	0	0	0	0	25	25		
				23	10	10	12	20	25	100		
Course Description		The course discusses a series of tridharma programs of education, research and community service in one learning activity in villages based on village potential and problems, as well as problem solving strategies in the village.										
Learning Materials/Subjects		Gagal diterjemahkan										
Reference		Main References										
		Gagal diterjemahkan										
		Additional References										
		Gagal diterjemahkan										
Teaching Team		Naimah Aris, S.Si.,M.Math., Dr. Firman, S.Si.,M.Si.										
Course requirement												
Week	Sub CPMK (End-of-stage learning ability)	Penilaian (Assesment)			Learning Forms and Methods [time estimate]							
		Indicator		Techniques & Criteria	Offline			Online				
1	2	3		4	5			6				
1	Students are able to express and explain the contract and learning plans as well as the scope of project activities in the village (CPMK-1)	Formative: <ul style="list-style-type: none">• Capabilities Arranging and designing creativity and innovation programs in villages• Precision and suitability of the design to Partner's needs• Capabilities in communicating program objectives and partner needs Sumative: Gagal diterjemahkan		Formative Criteria: Punctuality, mastery of the material received Sumative Criteria: Group Discussion (4) Assessment Technique: Non Test	Studying: Group discussion (Small Group Discussion), Problem-Based Learning (Problem-based Learning) Shape: Stare Face Documentation of observation results Description of Program Plan Method: <ul style="list-style-type: none">• Discussion:2 Day• Problem Based Learning 1 Week = 6 Days = 64 Hours			Studying: Group discussion (Small Group Discussion) Shape: Stare Maya Method: <ul style="list-style-type: none">• Discussion• Coordination, Consultation with Partners, Dr 1 Week = 6 Days = 64 Hours				

2	Students are able to design programs and adjust to partner programs to support the optimization of work programs in the village (CPMK-1)	<p>Formative:</p> <ul style="list-style-type: none"> Capabilities Arranging and designing creativity and innovation programs in villages Precision and suitability of the design to Partner's needs Capabilities in communicating program objectives and partner needs <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Visits, Discussions and Coordination with Partners.</p> <p>Sumative Criteria:</p> <p>Group Discussion (5)</p> <p>Assessment Technique:</p> <p>Non Test</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion), Problem-Based Learning (Problem-based Learning) Gagal diterjemahkan</p> <p>1 Week = 6 Days = 64 Hours</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion)</p> <p>Shape: Stare Maya</p> <p>Method:</p> <ul style="list-style-type: none"> Discussion Coordination, Consultation with Partners, D <p>1 Week = 6 Days = 64 Hours</p>
3	Students are able to explain 18 Sustainable National Development Objectives through the Village SDGs Program (CPMK-1)	<p>Formative:</p> <ul style="list-style-type: none"> Accuracy and completeness in explaining the 18 sustainable national development goals and correlating them with program plans, activities. Activity in questions and answers in discussions <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Accuracy, understanding, and mastery of the material</p> <p>Sumative Criteria:</p> <p>Group Discussion (4)</p> <p>Assessment Technique:</p> <p>Non Test</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion), Problem-Based Learning (Problem-based Learning)</p> <p>Shape: Stare Face Response in discussion</p> <p>Method:</p> <ul style="list-style-type: none"> Lectures Discussion Interactive with Field Supervisors, Partners and P2KKN Task Force <p>16 Hours</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion)</p> <p>Shape: Stare Maya</p> <p>Method:</p> <ul style="list-style-type: none"> Lectures Discussion Interactive <p>16 Hours</p>
4	Students are able to describe special debriefing material and implement in the community (CPMK-2)	<p>Formative:</p> <ul style="list-style-type: none"> Precision and Completeness in presenting special briefing materials. Precision in correlating the program design made with special provision material <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Communication skills</p> <p>Active in discussions</p> <p>Accuracy of explanation</p> <p>Systematic and logical</p> <p>Sumative Criteria:</p> <p>Short Q&A (10)</p> <p>Assessment Technique:</p> <p>Non Test</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion), Discovery Learning</p> <p>Shape: Stare Face Responses in oral and written discussions / questions and answers</p> <p>Method:</p> <ul style="list-style-type: none"> Lecture Discussion with DPL and the PKKN Task Force. <p>12 Days, 96 Hours</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion), Di</p> <p>Shape: Stare Maya</p> <p>Method:</p> <ul style="list-style-type: none"> Lectures Discussion with DPL and the PKKN Task For <p>12 Days, 96 Hours</p>

5	Students are able to identify and uncover the conditions of the reality of the village and their community (CPMK-2)	<p>Formative:</p> <p>Ability in identifying village potential and its development</p> <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Understanding and mastery of material</p> <p>Sumative Criteria:</p> <p>Group Discussion (10)</p> <p>Assessment Technique:</p> <p>Non Test</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion), Problem-Based Learning (Problem-based Learning)</p> <p>Shape</p> <ul style="list-style-type: none"> • Stare Face • Response • Visit Field • Field activities, and Coordination of DPL and Partners. <p>Method:</p> <ul style="list-style-type: none"> • Lectures • Discussion (program gain) <p>10 Days, 80 Hours</p>	
6	Students are able to recognize and determine problems and compile work programs based on community needs (CPMK-2)	<p>Formative:</p> <ul style="list-style-type: none"> • Ability to identify needs (partner problems) • Capabilities designing activity programs • Precision programs designed with partner problems/needs in mind • Capabilities interact • Activity in initiating the program for understanding and mastering the material <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Implementation of identification</p> <p>Sumative Criteria:</p> <p>Case Studies (10)</p> <p>Assessment Technique:</p> <p>Non Test</p>	<p>Studying:</p> <p>Case Study, Problem-Based Learning</p> <p>Shape:</p> <p>Stare face Study Field</p> <p>Method:</p> <ul style="list-style-type: none"> • Lectures • Problem Based Learning • Case study <p>10 Days, 80 Hours</p>	<p>Studying:</p> <p>Case Study, Problem-Based Learning</p> <p>Shape:</p> <p>Stare virtual</p> <p>Method:</p> <ul style="list-style-type: none"> • Lectures • Problem Based Learning • Case study • Via online <p>10 Days, 80 Hours</p>
7	Students are able to explain the problems and compile work programs based on community needs (CPMK-3)	<p>Formative:</p> <ul style="list-style-type: none"> • Precision and suitability of program design to partner needs • Communication active in mentoring • Communication respond to discussions at seminars • Cooperation team • Program the activities offered are solutions and cutting-edge <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Understanding and mastery of material</p> <p>Sumative Criteria:</p> <p>Presentation (4)</p> <p>Assessment Technique:</p> <p>Non Test</p>	<p>Seminar:</p> <p>Group discussion (Small Group Discussion), Project-Based Learning (Project-based Learning)</p> <p>Gagal diterjemahkan</p> <p>8 Hours</p>	
8	Students are able to carry out work programs based on the results of the work program seminar (CPMK-3)	<p>Formative:</p> <ul style="list-style-type: none"> • Capabilities in implementing the activity program as designed • Precision time • Achievement program objectives • Compactness and teamwork <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Achievement of objectives and implementation of activity programs</p> <p>Sumative Criteria:</p> <p>Project Based (10)</p> <p>Assessment Technique:</p> <p>Non Test</p>	<p>Studying:</p> <p>Case Study, Project-Based Learning</p> <p>Shape:</p> <ul style="list-style-type: none"> • Activity Field • Implementation activity program <p>Method:</p> <ul style="list-style-type: none"> • Case study • Project Based Learning <p>24 Days = 192 Hours</p>	<p>Studying:</p> <p>Case Study, Project-Based Learning</p> <p>Shape:</p> <p>Stare Maya</p> <p>Method:</p> <ul style="list-style-type: none"> • Discussion Interactive with Dospem, DPL, Ir Team <p>Assignment:</p> <ul style="list-style-type: none"> • Documentation activities • Document output/ feedback • Report implementation of activities <p>24 Days = 192 Hours</p>

9	Students are able to monitor and evaluate work programs (CPMK-3)	<p>Formative:</p> <ul style="list-style-type: none"> Cooperation Team Capabilities each member in carrying out their duties as a responsibility Capabilities perform PDCA Capabilities provide follow-up and solutions to obstacles <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Discipline</p> <p>Liveliness</p> <p>Communication and Interaction</p> <p>Sumative Criteria:</p> <p>Presentation (4)</p> <p>Assessment Technique:</p> <p>Non Test</p>	<p>Studying:</p> <p>Group discussions (Small Group Discussion), Collaborative Learning (Collaborative Learning)</p> <p>Shape:</p> <ul style="list-style-type: none"> Response Percentage <p>Method:</p> <ul style="list-style-type: none"> Small Group Discussion Discussion Interactive Collaborative Learning <p>2 Days (16 Hours)</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion)</p> <p>Shape:</p> <p>Tatap Maya</p> <p>Method:</p> <ul style="list-style-type: none"> Discussion interactive with the team, dospem <p>2 Days (16 Hours)</p>
10	Students are able to explain the concept of developing potential and develop strategies for solving problems in the village (CPMK-4)	<p>Formative:</p> <ul style="list-style-type: none"> Capabilities in designing concepts and strategies for problem solutions Precision and solution suitability. Implementation activity plan Achievement activity goal Cooperation team Precision implementation time as planned <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Active discussion</p> <p>Mastery of material</p> <p>Sumative Criteria:</p> <p>Project Based (10)</p> <p>Assessment Technique:</p> <p>Non Test</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion), Project-Based Learning (Project-based Learning) Gagal diterjemahkan</p> <p>24 Days = 192 Hours</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion)</p> <p>Shape:</p> <ul style="list-style-type: none"> Response Stare virtual <p>Method:</p> <ul style="list-style-type: none"> Discussion <p>Assignment:</p> <ul style="list-style-type: none"> Report Activity plan Report Implementation of Activities <p>24 Days = 192 Hours</p>
11	Students are able to explain the creativity and innovation development program to support the achievement of SDGs Village (CPMK-4)	<p>Formative:</p> <ul style="list-style-type: none"> Capabilities in presentation Capabilities in responding and dialogue in discussions Systematics presentation materials ability organize the implementation of the final seminar liveness participants in the discussion <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Liveliness</p> <p>Communication</p> <p>Cooperation</p> <p>Completeness of program implementation</p> <p>Sumative Criteria:</p> <p>Presentation (4)</p> <p>Assessment Technique:</p> <p>Non Test</p>	<p>Seminar:</p> <p>Group discussion (Small Group Discussion), Project-Based Learning (Project-based Learning)</p> <p>Shape: Seminar</p> <p>Method:</p> <ul style="list-style-type: none"> Discussion Interactive Presentation activity results Project Based Learning <p>1 Day = 8 Hours</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion)</p> <p>Shape: Stare Maya</p> <p>Method: Discussion</p> <p>Assignment:</p> <p>LPJ implementation of the final seminar</p> <p>1 Day = 8 Hours</p>

12	Students are able to make reporting based on the work program that has been implemented (CPMK-4)	<p>Formative:</p> <ul style="list-style-type: none"> • Systematics report • Conformity with report template/ format • Activity in discussions under the guidance of dospem and DPL • Precision time <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>conformity with the final reporting format, final report, logbook and documentation</p> <p>The substance of the report contains all stages from start to finish</p> <p>Report systematics</p> <p>Sumative Criteria:</p> <p>Project Report (25)</p> <p>Assessment Technique:</p> <p>Non Test</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion)</p> <p>Shape:</p> <ul style="list-style-type: none"> • Seminar • Stare Face • response <p>Method:</p> <ul style="list-style-type: none"> • Discussion Interactive <p>10 Days, 80 Hours</p>	
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Matrix of SLO, CLO, and Assessment Method

SLO / CLO	CLO-1	CLO-2	CLO-3	CLO-4
CPL-8 (S1)	Group Discussion (Weight 4%) Group Discussion (Weight 5%) Group Discussion (Weight 4%)	Short Q&A (Weight 10%) Group Discussion (Weight 10%) Case Studies (Weight 10%)		
CPL-9 (S2)			Presentation (Weight 4%) Project Based (Weight 10%) Presentation (Weight 4%)	Project Based (Weight 10%) Presentation (Weight 4%) Project Report (Weight 25%)

Evaluation Type and Assessment Weight

Type	Assessment Weight
Group Discussion	23
Short Q&A	10
Case Studies	10
Presentation	12
Project Based	20
Project Report	25
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								
				Group Discussion	Short Q&A	Case Studies	Presentation	Project Based	Project Report			
SLO-8	CLO-1	SUB-CLO-1	Punctuality, mastery of the material received	4	0	0	0	0	0	4		
SLO-8	CLO-1	SUB-CLO-2	Visits, Discussions and Coordination with Partners.	5	0	0	0	0	0	5		
SLO-8	CLO-1	SUB-CLO-3	Accuracy, understanding, and mastery of the material	4	0	0	0	0	0	4		
SLO-8	CLO-2	SUB-CLO-4	Communication skills, Activeness in discussions, Accuracy in explanations and Systematic and logical	0	10	0	0	0	0	10		
SLO-8	CLO-2	SUB-CLO-5	Understanding and mastery of material	10	0	0	0	0	0	10		
SLO-8	CLO-2	SUB-CLO-6	Implementation of identification	0	0	10	0	0	0	10		
SLO-9	CLO-3	SUB-CLO-7	Understanding and mastery of material	0	0	0	4	0	0	4		
SLO-9	CLO-3	SUB-CLO-8	Achievement of objectives and implementation of activity programs	0	0	0	0	10	0	10		
SLO-9	CLO-3	SUB-CLO-9	Discipline, Activeness and Communication and Interaction	0	0	0	4	0	0	4		

SLOs that are charged on the Course	CLO	SUB CLO	Form of Assessment*							Weight	Value	Student Score
			Formative	Sumative								
				Group Discussion	Short Q&A	Case Studies	Presentation	Project Based	Project Report			
SLO-9	CLO-4	SUB-CLO-10	Active discussion and mastery of material	0	0	0	0	10	0	10		
SLO-9	CLO-4	SUB-CLO-11	Activeness, Communication, Cooperation and Completeness of program implementation	0	0	0	4	0	0	4		
SLO-9	CLO-4	SUB-CLO-12	conformity with the final reporting format, final report, logbook and documentation, the substance of the report contains all stages from start to finish and the systematics of the report	0	0	0	0	0	25	25		
				23	10	10	12	20	25	100		

SEMESTER LEARNING PLAN

**HUMANISM CHARACTER DEVELOPMENT (HUMANITARIAN PROJECT) COURSES
(23U02133620)**



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-8 (S1) - The students have integrity that highly values the supreme divinity, social responsibility, and professional ethics

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

Course Learning Outcomes (CLO)

CPMK-1: Able to explain about concepts, management, analyzing and participating in disaster management, Handling Extraordinary Events (KLB) and Pandemic Covid19 and handling social problems of the community (CPL8 dan CPL9)

Sub-CLO

Sub CPMK-1: Students are able to understand the concepts, scope, disaster classification and analyze pre-disaster management, during disasters and after disasters including assessment of needs during disasters and other social problems of the community (CPMK-1)

Sub CPMK-2: Students are able to understand the concepts and scope, components and procedures for handling pandemic/outbreaks/outbreaks/KLB/Covid19 (CPMK-1)

Sub CPMK-3: Students are able to play a role and be involved in handling disasters and other social problems that occur in accordance with competencies by partnering with government and non-government institutions outside of universities (CPMK-1)

Sub CPMK-4: Students are able to conduct a systematic investigation of Pandemi/Outbreak/KLB/COVID19 and make a plan to overcome Pandemi/Plague/KLB/COVID19 by partnering with government and non-government institutions as well as analysis of the results of the investigation and making reports on the results of the Pandemi/Plague/KLB/COVID 19 Pandemic Investigation Report (CPMK-1)

Sub CPMK-5: Students are able to present the results of visits and field practices (CPMK-1)

Learning Analytics

Humanism Character Development (Humanitarian Project)



Students are able to present the results of visits and field practices (CPMK-1)



Students are able to conduct a systematic investigation of Pandemi/Outbreak/KLB/COVID19 and make a plan to overcome Pandemi/Plague/KLB/COVID19 by partnering with government and non -government institutions as well as analysis of the results of the investigation and making reports on the results of the Pandemi/Plague/KLB/COVID 19 Pandemic Investigation Report (CPMK-1)



Students are able to play a role and be involved in handling disasters and other social problems that occur in accordance with competencies by partnering with government and non -government institutions outside of universities (CPMK-1)



Students are able to understand the concepts and scope, components and procedures for handling pandemic/outbreaks/outbreaks/KLB/Covid19 (CPMK-1)



Students are able to understand the concepts, scope, disaster classification and analyze pre -disaster management, during disasters and after disasters including assessment of needs during disasters and other social problems of the community (CPMK-1)



HASANUDDIN UNIVERSITY

FAKULTY OF MATHEMATICS AND NATURAL SCIENCES

STUDY PROGRAM OF MATHEMATICS - S1

SEMESTER LEARNING PLAN

Course		Code	Course Group	Credits	SEMESTER	Compilation Date
Humanism Character Development (Humanitarian Project)		23U02133620	MKPK	20	6	1 April 2023
AUTHORITY		SLP Developer Lecturer		Coordinator		Head of Study Program
		Prof. Dr. Ida Leida Maria, SKM., MKM.,M.Sc.PH, Dr. Wahiduddin, SKM.,M.Kes.				Dr. Firman, S.Si.,M.Si.
Learning Outcomes Course	SLOs that are imposed on the course					
	SLO-8:	Mahasiswa memiliki integritas yang sangat menghargai keilahian tertinggi, tanggung jawab sosial, dan etika profesional				
	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 ⇒ Course Learning Outcomes					
	After completing this course, it is expected:					
	SLO-8	CLO-1: Able to explain about concepts, management, analyzing and participating in disaster management, Handling Extraordinary Events (KLB) and Pandemic Covid19 and handling social problems of the community				
	SLO-9	CLO-1: Able to explain about concepts, management, analyzing and participating in disaster management, Handling Extraordinary Events (KLB) and Pandemic Covid19 and handling social problems of the community				
	CLO ⇒ Sub-CLO					
	CLO-1	Sub-CLO-1:Students are able to understand the concepts, scope, disaster classification and analyze pre -disaster management, during disasters and after disasters including assessment of needs during disasters and other social problems of the community				
		Sub-CLO-2:Students are able to understand the concepts and scope, components and procedures for handling pandemic/outbreaks/outbreaks/KLB/Covid19				
		Sub-CLO-3:Students are able to play a role and be involved in handling disasters and other social problems that occur in accordance with competencies by partnering with government and non -government institutions outside of universities				
		Sub-CLO-4:Students are able to conduct a systematic investigation of Pandemi/Outbreak/KLB/COVID19 and make a plan to overcome Pandemi/Plague/KLB/COVID19 by partnering with government and non -government institutions as well as analysis of the results of the investigation and making reports on the results of the Pandemi/Plague/KLB/COVID 19 Pandemic Investigation Report				
		Sub-CLO-5:Students are able to present the results of visits and field practices				

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						
				Quiz	Group Discussion	Practicum	Presentation			
SLO-9	CLO-1	SUB-CLO-1	Accuracy and Mastery, Accuracy and Mastery and Accuracy and Mastery	25	0	0	0	25		
SLO-9	CLO-1	SUB-CLO-2	Precision and Mastery and Precision and Mastery	5	5	0	0	10		
SLO-9	CLO-1	SUB-CLO-3	Precision and Mastery	0	0	20	0	20		
SLO-9	CLO-1	SUB-CLO-4	Precision and Mastery and Precision and Mastery	15	0	20	0	35		
SLO-9	CLO-1	SUB-CLO-5	Precision and Mastery	0	0	0	10	10		
				45	5	40	10	100		

Course Description	This course discusses efforts to develop humanist character by understanding concepts and space scope of disaster management, handling pandemics and extraordinary events (KLB) including handling pandemics/covid19, as well as handling community social problems. Apart from that, in this course students will also practice in the field through observation activities, and be directly involved in various disaster management programs, handling pandemics/KLB/covid19, as well as social problems in society that occur when this course is presented.
Learning Materials/Subjects	1. Disaster management 2. Program for handling pandemics, extraordinary events (KLB)/Covid19 pandemic 3. Community social problem handling program
Reference	Main References
	1. Book Free Learning Guide for Independent Campuses-Directorate General of Higher Education, Ministry of Education and Culture, 2020 2. Michael B. Gregg (2012) Field Epidemiology - 3rd Edition 3. Management preparedness and emergency response in disaster and emergency management by the health problem management center SETJEN DEPKES FKM UI, 2001 4. Sphere Project (2011) Humanitarian Charter and Minimum Standards in Humanitarian Response 5. Ministry Health of the Republic of Indonesia. (July 2020): Guidelines for the Prevention and Control of Corona Virus Disease (Covid19)
	Additional References

	Gagal diterjemahkan						
Teaching Team	Naimah Aris, S.Si.,M.Math., Dr. Firman, S.Si.,M.Si.						
Course requirement							
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	Students are able to understand the concepts, scope, disaster classification and analyze pre -disaster management, during disasters and after disasters including assessment of needs during disasters and other social problems of the community (CPMK-1)	Formative: Accuracy in explaining the concept and scope of disaster management and classification of disasters and social problems in society other Sumative:	Formative Criteria: Precision and Mastery Sumative Criteria: Quiz (5) Assessment Technique: Test	Studying: Group discussion (Small Group Discussion) 1 Week (48 Hours)		Learning contract and introduction about disasters and the scope of disaster management and classification of disasters and social problems of society other	5
2	Students are able to understand the concepts, scope, disaster classification and analyze pre -disaster management, during disasters and after disasters including assessment of needs during disasters and other social problems of the community (CPMK-1)	Formative: Accuracy of conducting studies on pre, during and post-disaster management policies Sumative: Gagal diterjemahkan	Formative Criteria: Precision and Mastery Sumative Criteria: Quiz (10) Assessment Technique: Test	Studying: Case Study (Case Study) 1 Week (48 Hours)		Pre, during and post disaster management policies	10

3	Students are able to understand the concepts, scope, disaster classification and analyze pre -disaster management, during disasters and after disasters including assessment of needs during disasters and other social problems of the community (CPMK-1)	Formative: The accuracy of conducting disaster risk analysis and assessing needs during disasters and other social problems in society Sumative: Gagal diterjemahkan	Formative Criteria: Precision and Mastery Sumative Criteria: Quiz (10) Assessment Technique: Test	Studying: Case Study (Case Study) 1 Week (48 Hours)		Disaster risk analysis and assessment of needs during disasters and other social problems in society	10
4	Students are able to understand the concepts and scope, components and procedures for handling pandemic/outbreaks/outbreaks/KLB/Covid19 (CPMK-1)	Formative: Precision explains the concept and scope of the pandemic/outbreak/explosion/covid19 pandemic Sumative: Gagal diterjemahkan	Formative Criteria: Precision and Mastery Sumative Criteria: Group Discussion (5) Assessment Technique: Non Test	Studying: Group discussion (Small Group Discussion) 1 Week (48 Hours)		Concept of Pandemic/Plague/KLB/Covid19	5

5	Students are able to understand the concepts and scope, components and procedures for handling pandemic/outbreaks/outbreaks/KLB/Covid19 (CPMK-1)	Formative: Accuracy in explaining procedures for handling a pandemic/outbreak/ Outbreak/Covid19 Sumative: Gagal diterjemahkan	Formative Criteria: Precision and Mastery Sumative Criteria: Quiz (5) Assessment Technique: Gagal diterjemahkan	Studying: Group discussion (Small Group Discussion) 1 Week (48 Hours)		Outbreak/KLB/Covid19 investigation procedures	5
6	Students are able to play a role and be involved in handling disasters and other social problems that occur in accordance with competencies by partnering with government and non -government institutions outside of universities (CPMK-1)	Formative: Accuracy in implementing disaster preparedness and management of the impact of disasters and other social problems in society Sumative: Gagal diterjemahkan	Formative Criteria: Precision and Mastery Sumative Criteria: Practicum (20) Assessment Technique: Non Test	Practicum, Studio Practice, Workshop Practice, Field Practice: Project-Based Learning (Project-based Learning) 5 Weeks (240 Hours)		Visit in disaster areas (field visit surveys) carry out disaster preparedness and management of disaster impacts Field visits to areas with social problems, for example areas refugees/immigrants	20

7	Students are able to conduct a systematic investigation of Pandemi/Outbreak/KLB/COVID19 and make a plan to overcome Pandemi/Plague/KLB/COVID19 by partnering with government and non - government institutions as well as analysis of the results of the investigation and making reports on the results of the Pandemi/Plague/KLB/COVID 19 Pandemic Investigation Report (CPMK-1)	<p>Formative:</p> <p>Accuracy in explaining control efforts and implementing pandemic/outbreak management programs/ Outbreak/covid19</p> <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Precision and Mastery</p> <p>Sumative Criteria:</p> <p>Practicum (20)</p> <p>Assessment Technique:</p> <p>Gagal diterjemahkan</p>	<p>Practicum, Studio Practice, Workshop Practice, Field Practice:</p> <p>Project-Based Learning (Project-based Learning)</p> <p>5 Weeks (240 Hours)</p>	<p>Practice Investigation of outbreaks and outbreak control efforts</p> <p>Visit to the covid19 task force</p>	20
8	Students are able to conduct a systematic investigation of Pandemi/Outbreak/KLB/COVID19 and make a plan to overcome Pandemi/Plague/KLB/COVID19 by partnering with government and non - government institutions as well as analysis of the results of the investigation and making reports on the results of the Pandemi/Plague/KLB/COVID 19 Pandemic Investigation Report (CPMK-1)	<p>Formative:</p> <p>Precision analyze and identify cases of the outbreak/KLB/Covid19</p> <p>Accuracy in analyzing data from the results of the outbreak/Covid19 investigation And make a report on the results of the investigation</p> <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Precision and Mastery</p> <p>Sumative Criteria:</p> <p>Quiz (15)</p> <p>Assessment Technique:</p> <p>Test</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion), Case Study (Case Study)</p> <p>2 Weeks (96 Hours)</p>	<p>Analysis data on the results of the outbreak/Covid19 investigation</p> <p>Report on the results of the investigation into the outbreak/KLB/Covid19</p>	15

9	Students are able to present the results of visits and field practices (CPMK-1)	Formative: Precision and systematic presentation Sumative: Gagal diterjemahkan	Formative Criteria: Precision and Mastery Sumative Criteria: Presentation (10) Assessment Technique: Non Test	Seminar: Group discussion (Small Group Discussion) Shape non test : <ul style="list-style-type: none"> • Report • Presentation 1 Week (48 Hours)		Presentation and discussion of field results consisting of Disaster Management and social problems as well as Investigation of Pandemics/Outbreaks/KLB/ Covid19	10
							100

Matrix of SLO, CLO, and Assessment Method

SLO / CLO	CLO-1
CPL-8 (S1)	<p>Quiz (Weight 25%)</p> <p>Group Discussion (Weight 5%)</p> <p>Quiz (Weight 5%)</p> <p>Practicum (Weight 20%)</p> <p>Practicum (Weight 20%)</p> <p>Quiz (Weight 15%)</p> <p>Presentation (Weight 10%)</p>
CPL-9 (S2)	<p>Quiz (Weight 25%)</p> <p>Group Discussion (Weight 5%)</p> <p>Quiz (Weight 5%)</p> <p>Practicum (Weight 20%)</p> <p>Practicum (Weight 20%)</p> <p>Quiz (Weight 15%)</p> <p>Presentation (Weight 10%)</p>

Evaluation Type and Assessment Weight

Type	Assessment Weight
Quiz	45
Group Discussion	5
Practicum	40
Presentation	10
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						
				Quiz	Group Discussion	Practicum	Presentation			
SLO-9	CLO-1	SUB-CLO-1	Accuracy and Mastery, Accuracy and Mastery and Accuracy and Mastery	25	0	0	0	25		
SLO-9	CLO-1	SUB-CLO-2	Precision and Mastery and Precision and Mastery	5	5	0	0	10		
SLO-9	CLO-1	SUB-CLO-3	Precision and Mastery	0	0	20	0	20		
SLO-9	CLO-1	SUB-CLO-4	Precision and Mastery and Precision and Mastery	15	0	20	0	35		
SLO-9	CLO-1	SUB-CLO-5	Precision and Mastery	0	0	0	10	10		
				45	5	40	10	100		

SEMESTER LEARNING PLAN

**DEVELOPMENT AND STRENGTHENING OF ENTREPRENEURSHIP COURSES
(23U02133420)**



TEACHING TEAM

Naimah Aris, S.Si.,M.Math.
197110031997022001

Dr. Firman, S.Si.,M.Si.
196804292002121001

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

Course Learning Outcomes (CLO)

CPMK-1: After conducting an entrepreneurial student program activities, students are able to apply concepts, develop leadership spirit, communication skills, collaborate, soft skills, entrepreneurial characters, sociopreneurship, technopreneurship, develop ideas and business opportunities, business models and make collaborative business designs through internship and assistance. (CPL9)

Sub-CLO

Sub CPMK-1: Able to explain the basic concepts of entrepreneurship, entrepreneurial mindset, entrepreneurial motivation, find a maritime -based entrepreneurial character and interpret the principle of entrepreneurial leadership principles (CPMK-1)

Sub CPMK-2: Able to describe the character of Sociopreneur, Tekhnopreneur and give examples of sociopreneur and technopreneur figures (CPMK-1)

Sub CPMK-3: Students are able to explain their own potential and conduct self -evaluation of the characteristics and characters possessed by a potential entrepreneur (CPMK-1)

Sub CPMK-4: Able to use and examine the business model in the preparation of a Canvas Model Business Idea (CPMK-1)

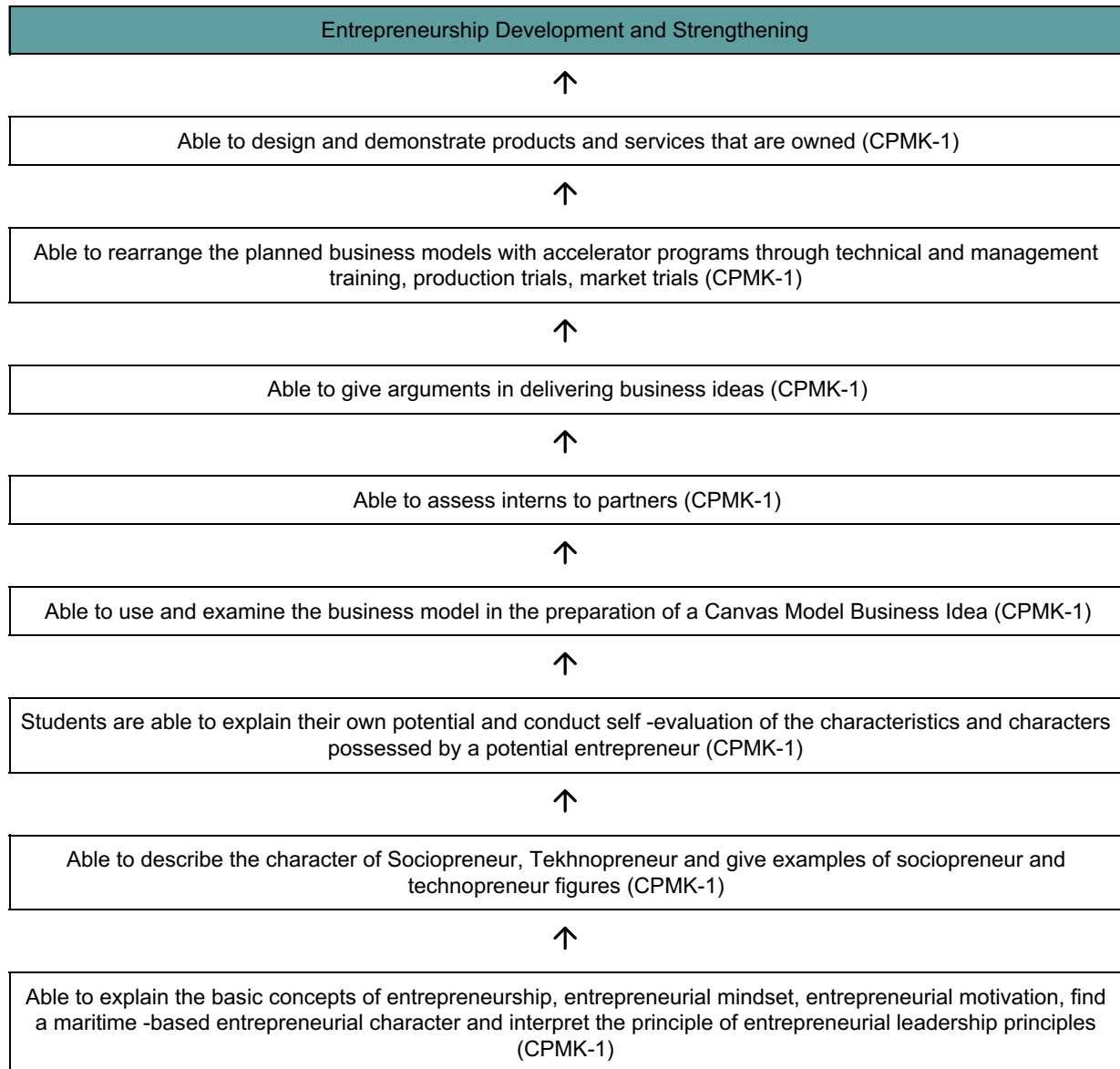
Sub CPMK-5: Able to assess interns to partners (CPMK-1)

Sub CPMK-6: Able to give arguments in delivering business ideas (CPMK-1)

Sub CPMK-7: Able to rearrange the planned business models with accelerator programs through technical and management training, production trials, market trials (CPMK-1)

Sub CPMK-8: Able to design and demonstrate products and services that are owned (CPMK-1)

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		
Entrepreneurship Development and Strengthening			23U02133420	MKPK		20	6		9 Juni 2022		
AUTHORITY			SLP Developer Lecturer		Coordinator			Head of Study Program			
			Dr. dr. Masyitha Muis, S.Ked., MS., Makkarennu, S.Hut., M.Si., Ph.D.					Dr. Firman, S.Si.,M.Si.			
Learning Outcomes Course	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 ⇒ Course Learning Outcomes										
	After completing this course, it is expected:										
	SLO-9	CLO-1: After conducting an entrepreneurial student program activities, students are able to apply concepts, develop leadership spirit, communication skills, collaborate, soft skills, entrepreneurial characters, sociopreneurship, technopreneurship, develop ideas and business opportunities, business models and make collaborative business designs through internship and assistance.									
	CLO ⇒ Sub-CLO										
	CLO-1	Sub-CLO-1:Able to explain the basic concepts of entrepreneurship, entrepreneurial mindset, entrepreneurial motivation, find a maritime -based entrepreneurial character and interpret the principle of entrepreneurial leadership principles									
		Sub-CLO-2:Able to describe the character of Sociopreneur, Tekhnopreneur and give examples of sociopreneur and technopreneur figures									
		Sub-CLO-3:Students are able to explain their own potential and conduct self -evaluation of the characteristics and characters possessed by a potential entrepreneur									
		Sub-CLO-4:Able to use and examine the business model in the preparation of a Canvas Model Business Idea									
		Sub-CLO-5:Able to assess interns to partners									
		Sub-CLO-6:Able to give arguments in delivering business ideas									
		Sub-CLO-7:Able to rearrange the planned business models with accelerator programs through technical and management training, production trials, market trials									
		Sub-CLO-8:Able to design and demonstrate products and services that are owned									
	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	Project Based	Presentation					
SLO-9	CLO-1	SUB-CLO-1	Refer to rubric 1	10	0	0	10				
SLO-9	CLO-1	SUB-CLO-2	Refer to rubric 2	10	0	0	10				

SLOs that are charged on the Course		CPMK	SUB CPMK	Form of Assessment*			Weight	Value	Student Score	
				Formative	Sumative					
					Independent Assignment	Project Based				Presentation
SLO-9		CLO-1	SUB-CLO-3	Refer to rubric 2	10	0	0	10		
SLO-9		CLO-1	SUB-CLO-4	Refer to rubric 3	0	15	0	15		
SLO-9		CLO-1	SUB-CLO-5	Refer to rubric 4	0	15	0	15		
SLO-9		CLO-1	SUB-CLO-6	Business Plan Presentation	0	0	10	10		
SLO-9		CLO-1	SUB-CLO-7	Refer to rubric 6	0	15	0	15		
SLO-9		CLO-1	SUB-CLO-8	Refer to rubric 7	0	15	0	15		
					30	60	10	100		
Course Description		This course will lead students to enrich and increase their insight and motivation by developing entrepreneurial mindset, identifying entrepreneurial interests and talents, developing leadership spirit, soft skills and the character of innovation and collaboration as well as developing entrepreneurial talents through the application of business models, internships and mentoring.								
Learning Materials/Subjects		Gagal diterjemahkan								
Reference		Main References								
		Osterwalder, Alexander, & Pigneur, Yves. 2010. Business Model Generation. John Wiley & Sons, Inc., Hoboken, New Jersey. Hisrich, Robert D, Peters, Michael P, and Shepherd, Dean A, 2008. Entrepreneurship, New York: McGraw-Hill, Salemba Empat Publishers. Textbook of Applied Entrepreneurship. 2nd Ed. Hasanuddin University Entrepreneurship and Business Development Unit. Makassar. Entrepreneurial Student Activities Guidebook Ministry of Education and Culture. Books related to teaching, tutorials etc.								
		Additional References								
		SEDS Project Module 2015 Basrowi, 2011. Entrepreneurship for Higher Education Tall. Ghalia Indonesia. Bogor. Ananda, Rusydi, and Tien Rafida. 2016. Introduction to Entrepreneurship: Academic Engineering Gives Birth to Entrepreneurship. Prime Publishing. Terrain.								
Teaching Team		Naimah Aris, S.Si.,M.Math., Dr. Firman, S.Si.,M.Si.								
Course requirement										
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	Able to explain the basic concepts of entrepreneurship, entrepreneurial mindset, entrepreneurial motivation, find a maritime -based entrepreneurial character and interpret the principle of entrepreneurial leadership principles (CPMK-1)	Formative: <ul style="list-style-type: none"> Precision in explain Depth in character recognition entrepreneurship Accuracy in interpreting principles entrepreneurial leadership On time submission assignment Accuracy in describing effective business communication techniques and efficient. Accuracy in showing teamwork in work task Sumative: Gagal diterjemahkan	Formative Criteria: Refer to rubric 1 Sumative Criteria: Independent Assignment (10) Assessment Technique: Gagal diterjemahkan	Studying: Case Study (Case Study) Structured assignments Independent assignments [6 x 8 Hours] = 48 Hours	Studying: Case Study (Case Study) Structured assignments Independent assignments [6 x 8 Hours] = 48 Hours	Gagal diterjemahkan	10
2	Able to describe the character of Sociopreneur, Tekhnopreneur and give examples of sociopreneur and technopreneur figures (CPMK-1)	Formative: <ul style="list-style-type: none"> Accuracy in describing the character of a sociopreneur conclude Careful in identifying characters character sociopreneur and technopreneur Sumative: Gagal diterjemahkan	Formative Criteria: Refer to rubric 2 Sumative Criteria: Independent Assignment (10) Assessment Technique: Gagal diterjemahkan	Seminar: Case Study (Case Study) Structured assignment [6 x 8 Hours] = 48 Hours	Seminar: Case Study (Case Study) Structured assignment [6 x 8 Hours] = 48 Hours	<ul style="list-style-type: none"> Sociopreneur Technopreneur 	10
3	Students are able to explain their own potential and conduct self - evaluation of the characteristics and characters possessed by a potential entrepreneur (CPMK-1)	Formative: <ul style="list-style-type: none"> Depth of exploring experiences life Ability to draw reflections from every life experience told Timeliness in delivery task Sumative: Gagal diterjemahkan	Formative Criteria: Refer to rubric 2 Sumative Criteria: Independent Assignment (10) Assessment Technique: Gagal diterjemahkan	Studying: Self-Directed Learning Structured assignments Independent work [6 x 8 Hours] = 48 Hours	Studying: Self-Directed Learning Structured assignments Independent work [6 x 8 Hours] = 48 Hours	Character Mapping	10

4	Able to use and examine the business model in the preparation of a Canvas Model Business Idea (CPMK-1)	Formative: Accuracy in formulating business ideas through the 9 elements of the Business Model Canvas Sumative: Gagal diterjemahkan	Formative Criteria: Refer to rubric 3 Sumative Criteria: Project Based (15) Assessment Technique: Gagal diterjemahkan	Studying: Case Study, Project-Based Learning 2 [6 x 8 Hours] = 96 Hours	Studying: Case Study, Project-Based Learning 2 [6 x 8 Hours] = 96 Hours	Gagal diterjemahkan	15
5	Able to assess interns to partners (CPMK-1)	Formative: Accuracy in describing the comparison between planned business ideas and actual conditions in internship partner Sumative: Gagal diterjemahkan	Formative Criteria: Refer to rubric 4 Sumative Criteria: Project Based (15) Assessment Technique: Gagal diterjemahkan	Studying: Case Study, Project-Based Learning Discovery Learning 2 [6 x 8 Hours] = 96 Hours	Studying: Case Study, Project-Based Learning Discovery Learning 2 [6 x 8 Hours] = 96 Hours	1. Production process (raw materials, processing, packaging) 2. Management HR 3. Management marketing 4. Quality control	15
6	Able to give arguments in delivering business ideas (CPMK-1)	Formative: <ul style="list-style-type: none"> Participant Assessment Educate Assessment by supervisor, companion, team formed Peer Assessment Cooperation in team Ability communication Sumative: Gagal diterjemahkan	Formative Criteria: Business Plan Presentation Sumative Criteria: Presentation (10) Assessment Technique: Gagal diterjemahkan	Studying: Group discussions (Small Group Discussion), Collaborative Learning (Collaborative Learning) [6 x 8 Hours] = 48 Hours	Studying: Group discussions (Small Group Discussion), Collaborative Learning (Collaborative Learning) [6 x 8 Hours] = 48 Hours	Submission of business ideas	10

7	Able to rearrange the planned business models with accelerator programs through technical and management training, production trials, market trials (CPMK-1)	Formative: Compliance in setting models business Sumative: Gagal diterjemahkan	Formative Criteria: Refer to rubric 6 Sumative Criteria: Project Based (15) Assessment Technique: Gagal diterjemahkan	Studying: Project-Based Learning (Project-based Learning) 2 [6 x 8 Hours] = 96 Hours	Studying: Project-Based Learning (Project-based Learning) 2 [6 x 8 Hours] = 96 Hours	Gagal diterjemahkan	15
8	Able to design and demonstrate products and services that are owned (CPMK-1)	Formative: <ul style="list-style-type: none"> • Creativity in demonstrating product • Creativity in creating layouts stand/booth • Communication skills business • Leadership (<i>leadership</i>) • Ability to promote products he has Sumative: Gagal diterjemahkan	Formative Criteria: Refer to rubric 7 Sumative Criteria: Project Based (15) Assessment Technique: Gagal diterjemahkan	Studying: Collaborative learning (Collaborative Learning) 2 [6 x 8 Hours] = 96 Hours	Studying: Collaborative learning (Collaborative Learning) 2 [6 x 8 Hours] = 96 Hours	<ul style="list-style-type: none"> • Expo Product/ • Exhibition/ • socialization/ • Promo product 	15
							100

Matrix of SLO, CLO, and Assessment Method

SLO / CLO	CLO-1
CPL-9 (S2)	<div>Independent Assignment (Weight 10%)</div> <div>Independent Assignment (Weight 10%)</div> <div>Independent Assignment (Weight 10%)</div> <div>Project Based (Weight 15%)</div> <div>Project Based (Weight 15%)</div> <div>Presentation (Weight 10%)</div> <div>Project Based (Weight 15%)</div> <div>Project Based (Weight 15%)</div>

Evaluation Type and Assessment Weight

Type	Assessment Weight
Independent Assignment	30
Project Based	60
Presentation	10
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	Project Based	Presentation			
SLO-9	CLO-1	SUB-CLO-1	Refer to rubric 1	10	0	0	10		
SLO-9	CLO-1	SUB-CLO-2	Refer to rubric 2	10	0	0	10		
SLO-9	CLO-1	SUB-CLO-3	Refer to rubric 2	10	0	0	10		
SLO-9	CLO-1	SUB-CLO-4	Refer to rubric 3	0	15	0	15		
SLO-9	CLO-1	SUB-CLO-5	Refer to rubric 4	0	15	0	15		
SLO-9	CLO-1	SUB-CLO-6	Business Plan Presentation	0	0	10	10		
SLO-9	CLO-1	SUB-CLO-7	Refer to rubric 6	0	15	0	15		
SLO-9	CLO-1	SUB-CLO-8	Refer to rubric 7	0	15	0	15		
				30	60	10	100		

SEMESTER LEARNING PLAN

**COMMUNICATION AND SOCIAL INTERACTION (TEACHING CAMPUS) COURSES
(23U02133720)**



TEACHING TEAM

Naimah Aris, S.Si.,M.Math.
197110031997022001

Dr. Firman, S.Si.,M.Si.
196804292002121001

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-8 (S1) - The students have integrity that highly values the supreme divinity, social responsibility, and professional ethics

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

Course Learning Outcomes (CLO)

CPMK-1: Internalizing the ethics of communication, collaboration, and social interaction (attitude); (CPL8)

CPMK-2: Developing the spirit of leadership, soft skills and character in innovating and collaborating with teachers to improve the quality of learning (special skills) (CPL9)

CPMK-3: Have critical thinking skills in collaborating across sciences (special skills) (CPL9)

CPMK-4: Maintain and develop networks, with supervisors, colleagues, and peer (general skills). (CPL9)

Sub-CLO

Sub CPMK-1: Students are able to identify (observation) needs/ problems in the education unit (place of assignment) (CPMK-1)

Sub CPMK-2: Students are able to design activities as a work program based on observations as a solution to the problem in the education unit (CPMK-2)

Sub CPMK-3: Students are able to implement and actualize the program activities that have been designed in the education unit (CPMK-3)

Sub CPMK-4: Students are able to prepare the final report of the activity and present (as a dissemination) implementation of the activity (CPMK-4)

Learning Analytics

Communication and Social Interaction (Teaching Campus)



Students are able to prepare the final report of the activity and present (as a dissemination) implementation of the activity (CPMK-4)



Students are able to implement and actualize the program activities that have been designed in the education unit (CPMK-3)



Students are able to design activities as a work program based on observations as a solution to the problem in the education unit (CPMK-2)



Students are able to identify (observation) needs/ problems in the education unit (place of assignment) (CPMK-1)

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HASANUDDIN UNIVERSITY
FAKULTY OF MATHEMATICS AND NATURAL SCIENCES
STUDY PROGRAM OF MATHEMATICS - S1
SEMESTER LEARNING PLAN

Course	Code	Course Group	Credits	SEMESTER	Compilation Date				
Communication and Social Interaction (Teaching Campus)	23U02133720		20	6	1 Februari 2022				
AUTHORITY		SLP Developer Lecturer		Coordinator	Head of Study Program				
		Makkarennu, S.Hut., M.Si., Ph.D., A. Suci Wahyuni, S.H., M.Kn.			Dr. Firman, S.Si.,M.Si.				
Learning Outcomes Course	SLOs that are imposed on the course								
	SLO-8:	Mahasiswa memiliki integritas yang sangat menghargai keilahian tertinggi, tanggung jawab sosial, dan etika profesional							
	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 ⇒ Course Learning Outcomes								
	After completing this course, it is expected:								
	SLO-8	CLO-1: Internalizing the ethics of communication, collaboration, and social interaction (attitude);							
	SLO-9	CLO-2: Developing the spirit of leadership, soft skills and character in innovating and collaborating with teachers to improve the quality of learning (special skills)							
		CLO-3: Have critical thinking skills in collaborating across sciences (special skills)							
		CLO-4: Maintain and develop networks, with supervisors, colleagues, and peer (general skills).							
	CLO ⇒ Sub-CLO								
	CLO-1	Sub-CLO-1: Students are able to identify (observation) needs/ problems in the education unit (place of assignment)							
	CLO-2	Sub-CLO-2: Students are able to design activities as a work program based on observations as a solution to the problem in the education unit							
	CLO-3	Sub-CLO-3: Students are able to implement and actualize the program activities that have been designed in the education unit							
	CLO-4	Sub-CLO-4: Students are able to prepare the final report of the activity and present (as a dissemination) implementation of the activity							
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					
				Group Discussion	Project Based	Project Report			
SLO-8	CLO-1	SUB-CLO-1	Activeness, Communication Skills, Critical Thinking, Completeness and Punctuality	10	0	0	10		
SLO-9	CLO-2	SUB-CLO-2		0	15	0	15		
SLO-9	CLO-3	SUB-CLO-3		0	50	0	50		
SLO-9	CLO-4	SUB-CLO-4		0	10	15	25		
				10	75	15	100		
Course Description	Program Teaching Campus addressed: 1. For help improve equal distribution of educational quality, 2. Help improve the literacy and numeracy competencies of students at the educational level; 3. Embed empathy and social sensitivity in students towards the problems of social life around them; 4. Develop insight and honing thinking skills in working together across fields of science and students' diverse origins in solving the problems they face; and 5. Give The benefits for students are to hone their leadership skills, soft skills and character in innovating and collaborating with related parties at the educational level to improve the quality of learning.								
Learning Materials/Subjects	Gagal diterjemahkan								
Reference	Main References								
	<ul style="list-style-type: none"> Book Ministry of Education and Culture's Teaching Campus Activity Guide. Books related to teaching, tutorials etc. 								
	Additional References								

		Teaching Campus Training Video for Students via the Teaching Campus Dikti Youtube account					
Teaching Team		Naimah Aris, S.Si.,M.Math., Dr. Firman, S.Si.,M.Si.					
Course requirement							
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	Students are able to identify (observation) needs/ problems in the education unit (place of assignment) (CPMK-1)	Formative: <ul style="list-style-type: none"> Capabilities in communicating & coordinate with the Education Unit. Capabilities work individually and in groups (teams) Precision and completeness in conducting observations Completion preparation of observation results Sumative: Gagal diterjemahkan	Formative Criteria: Liveliness Communication skills Critical thinking Completeness Punctuality Sumative Criteria: Group Discussion (10) Assessment Technique: Non Test	Studying: Group discussion (Small Group Discussion) Shape: <ul style="list-style-type: none"> Stare Face Method: <ul style="list-style-type: none"> Visit field Discussion group Assignment: Report Observation 2 Weeks 1 week = 40 hours 1 day = 6.67 hours	Studying: Group discussion (Small Group Discussion) Shape: <ul style="list-style-type: none"> Stare Maya Method: <ul style="list-style-type: none"> Discussion Assignment: <ul style="list-style-type: none"> Report Observations Report Participant Daily 	<ul style="list-style-type: none"> Outline Campus Teaching activities Book Teaching Campus Program Guide Method observation 	10
2	Students are able to design activities as a work program based on observations as a solution to the problem in the education unit (CPMK-2)	Formative: <ul style="list-style-type: none"> Activity in working individually (in initiating activity programs) and in teams. Precision, appropriateness and systematicity in preparing activity program designs based on: <ul style="list-style-type: none"> a. Problem b. Program Core/ Campus Teaching Priorities Capabilities in presenting the activity program design Activity in Discussion Sumative: Gagal diterjemahkan	Formative Criteria: Sumative Criteria: Project Based (15) Assessment Technique: Non Test	Studying: Project-Based Learning (Project-based Learning) Shape: <ul style="list-style-type: none"> Stare Face Method: <ul style="list-style-type: none"> Seminar Discussion Interactive Project based learning Assignment: <ul style="list-style-type: none"> Report Activity Plan Road Map and flow of program implementation activities 1 Week 1 week = 40 hours	Studying: Project-Based Learning (Project-based Learning) Shape: <ul style="list-style-type: none"> Stare Maya Method: <ul style="list-style-type: none"> Seminar Discussion Interactive Project Based Learning 	<ul style="list-style-type: none"> Guide Programs and vision and mission of activity programs Guide preparation of activity program plans library related 	15

3	Students are able to implement and actualize the program activities that have been designed in the education unit (CPMK-3)	Formative: <ul style="list-style-type: none"> • Implementation activity program • Precision time • Completion execution • Coordination and Teamwork (activity coordinator and team members) Sumative: Gagal diterjemahkan	Formative Criteria: Sumative Criteria: Project Based (50) Assessment Technique: Non Test	Studying: Project-Based Learning (Project-based Learning) Gagal diterjemahkan 12-16 weeks 1 week = 40 hours	Studying: Project-Based Learning (Project-based Learning) Shape: Stare Maya/ Seminar Method: <ul style="list-style-type: none"> • Project Based Learning • Casestudy Assignment: <ul style="list-style-type: none"> • Logbook daily 	<ul style="list-style-type: none"> • Guide Implementation of activities/programs • Library related 	50
4	Students are able to prepare the final report of the activity and present (as a dissemination) implementation of the activity (CPMK-4)	Formative: <ul style="list-style-type: none"> • Precision and suitability of the implementation of activities with the activity program. • Precision Activity Implementation Time • Percentage • Responsive & Teamwork • Evaluative in carrying out activities Sumative: Gagal diterjemahkan	Formative Criteria: Sumative Criteria: Project Based (10) Assessment Technique: Non Test	Studying: Project-Based Learning (Project-based Learning) Gagal diterjemahkan 1 Week 1 week = 40 hours	Studying: Project-Based Learning (Project-based Learning) Shape: <ul style="list-style-type: none"> • Practice • Seminar Method: <ul style="list-style-type: none"> • Project Based Learning 	<ul style="list-style-type: none"> • Guide Implementation of activities/programs • Library related 	10
5	Students are able to prepare the final report of the activity and present (as a dissemination) implementation of the activity (CPMK-4)	Formative: <ul style="list-style-type: none"> • Precision and conformity with the final report format • Precision time for completion and submission of final report • Capabilities in communicating and presenting implementation in dissemination Sumative: Gagal diterjemahkan	Formative Criteria: Sumative Criteria: Project Report (15) Assessment Technique: Non Test	Studying: Group discussion (Small Group Discussion) Gagal diterjemahkan 2 Weeks (70 hours)	Studying: Group discussion (Small Group Discussion) Shape: <ul style="list-style-type: none"> • Stare Maya Method: <ul style="list-style-type: none"> • Small Group Discussion • Project Base Learning 	Guide to writing and preparing final reports	15
							100

Matrix of SLO, CLO, and Assessment Method

SLO / CLO	CLO-1	CLO-2	CLO-3	CLO-4
CPL-8 (S1)	Group Discussion (Weight 10%)			
CPL-9 (S2)		Project Based (Weight 15%)	Project Based (Weight 50%)	Project Based (Weight 10%) Project Report (Weight 15%)

Evaluation Type and Assessment Weight

Type	Assessment Weight
Group Discussion	10
Project Based	75
Project Report	15
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					
				Group Discussion	Project Based	Project Report			
SLO-8	CLO-1	SUB-CLO-1	Activeness, Communication Skills, Critical Thinking, Completeness and Punctuality	10	0	0	10		
SLO-9	CLO-2	SUB-CLO-2		0	15	0	15		
SLO-9	CLO-3	SUB-CLO-3		0	50	0	50		
SLO-9	CLO-4	SUB-CLO-4		0	10	15	25		
				10	75	15	100		

SEMESTER LEARNING PLAN

**LEADERSHIP AND CHARACTER OF STATE DEFENSE (NATIONAL DEFENSE) COURSES
(23U02133220)**



TEACHING TEAM

Naimah Aris, S.Si.,M.Math.
197110031997022001

Dr. Firman, S.Si.,M.Si.
196804292002121001

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-8 (S1) - The students have integrity that highly values the supreme divinity, social responsibility, and professional ethics

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

Course Learning Outcomes (CLO)

CPMK-1: Developing the critical attitudes and intellectuality of students who are of quality and integrity, national insight and have the ability for the interests and progress of the nation. (CPL8 dan CPL9)

CPMK-2: Actualizing the values of state defense for the sake of realizing the attitudes and behavior of the country's defense that supports the country's defense system (CPL8 dan CPL9)

CPMK-3: Realizing students with the character of the love of the motherland, awareness of the nation and state, has the belief of Pancasila as a state ideology and has the initial ability to defend the state (both physical, namely posture, health and physical equality that is upon (CPL8 dan CPL9)

Sub-CLO

Sub CPMK-1: Students are able to explain about the concept of defending the country, their goals and roles (CPMK-1)

Sub CPMK-2: Students are able to put forward and actualize Pancasila as the nation's ideology in the life of the nation and state. (CPMK-2)

Sub CPMK-3: Students are able to describe and actualize the values and concepts of state defense, through the leadership training of military training/ideas/archipelago insight and food resilience/sovereignty training (CPMK-2)

Sub CPMK-4: Students are able to compile a design of activities related to their involvement in education or anti -corruption movement; Education or anti -drug abuse movement and education or anti -radicalism movement (CPMK-3)

Sub CPMK-5: Students are able to prepare reports and disseminate the implementation of state defense activities (CPMK-3)

Learning Analytics

State Defense Leadership and Character (Bela Negara)



Students are able to prepare reports and disseminate the implementation of state defense activities (CPMK-3)



Students are able to compile a design of activities related to their involvement in education or anti -corruption movement; Education or anti -drug abuse movement and education or anti -radicalism movement (CPMK-3)



Students are able to describe and actualize the values and concepts of state defense, through the leadership training of military training/ideas/archipelago insight and food resilience/sovereignty training (CPMK-2)



Students are able to put forward and actualize Pancasila as the nation's ideology in the life of the nation and state. (CPMK-2)



Students are able to explain about the concept of defending the country, their goals and roles (CPMK-1)



HASANUDDIN UNIVERSITY
FAKULTY OF MATHEMATICS AND NATURAL SCIENCES
STUDY PROGRAM OF MATHEMATICS - S1
SEMESTER LEARNING PLAN

Course		Code	Course Group	Credits	SEMESTER		Compilation Date			
State Defense Leadership and Character (Bela Negara)		23U02133220	MKPK	20	6		1 Februari 2022			
AUTHORITY		SLP Developer Lecturer			Coordinator			Head of Study Program		
		Dr. Andi Tenri Famauri Rifai, SH., MH., Abdullah Sanusi, SE. MBA.,Ph.D.						Dr. Firman, S.Si.,M.Si.		
Learning Outcomes Course	SLOs that are imposed on the course									
	SLO-8:	Mahasiswa memiliki integritas yang sangat menghargai keilahian tertinggi, tanggung jawab sosial, dan etika profesional								
	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 ⇒ Course Learning Outcomes									
	After completing this course, it is expected:									
	SLO-8	CLO-1: Developing the critical attitudes and intellectuality of students who are of quality and integrity, national insight and have the ability for the interests and progress of the nation.								
		CLO-2: Actualizing the values of state defense for the sake of realizing the attitudes and behavior of the country's defense that supports the country's defense system								
		CLO-3: Realizing students with the character of the love of the motherland, awareness of the nation and state, has the belief of Pancasila as a state ideology and has the initial ability to defend the state (both physical, namely posture, health and physical equality that is upon								
	SLO-9	CLO-1: Developing the critical attitudes and intellectuality of students who are of quality and integrity, national insight and have the ability for the interests and progress of the nation.								
		CLO-2: Actualizing the values of state defense for the sake of realizing the attitudes and behavior of the country's defense that supports the country's defense system								
		CLO-3: Realizing students with the character of the love of the motherland, awareness of the nation and state, has the belief of Pancasila as a state ideology and has the initial ability to defend the state (both physical, namely posture, health and physical equality that is upon								
	CLO ⇒ Sub-CLO									
	CLO-1	Sub-CLO-1:Students are able to explain about the concept of defending the country, their goals and roles								
	CLO-2	Sub-CLO-2:Students are able to put forward and actualize Pancasila as the nation's ideology in the life of the nation and state.								
		Sub-CLO-3:Students are able to describe and actualize the values and concepts of state defense, through the leadership training of military training/ideas/archipelago insight and food resilience/sovereignty training								
	CLO-3	Sub-CLO-4:Students are able to compile a design of activities related to their involvement in education or anti -corruption movement; Education or anti -drug abuse movement and education or anti -radicalism movement								
		Sub-CLO-5:Students are able to prepare reports and disseminate the implementation of state defense activities								
	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						
				Group Discussion	Case Studies	Project Based				Project Report
SLO-9	CLO-1	SUB-CLO-1		15	0	0	0	15		
SLO-9	CLO-2	SUB-CLO-2	Clarity, accuracy and completeness of completion of tasks carried out	15	0	0	0	15		
SLO-9	CLO-2	SUB-CLO-3	Accuracy in demonstrating the values of basic leadership training as part of the concept of National Defense and constructing the implementation of the principles of National Defense	0	30	0	0	30		
SLO-9	CLO-3	SUB-CLO-4	Ability to communicate, convey aims and objectives of activities. and Movement/Education Design as an innovative and impactful implementation	0	0	30	0	30		
SLO-9	CLO-3	SUB-CLO-5	Timeliness and completeness, Implementation Report on Implementation of concepts and Movements related to National Defense., Percentage of Dissemination and Discussion (Response to activities)	0	0	0	10	10		
				30	30	30	10	100		

Course Description		Program State Defense Leadership and Character (Bela Negara) is intended to help improve the quality of State Defense learning, including: <ol style="list-style-type: none"> 1. Support Defending the country is a concept about the patriotism of a person, a group, or all components of a country; 2. Effort defense from all forms of AGHT (Threats, Disruptions, Obstacles and Challenges) to the existence of the country 3. Understanding Non-physically, national defense can be interpreted as an active role in advancing the nation and state, whether through education, morals, social, and so on; 4. Analyze Concepts and principles of National Defense leadership; 5. Implementing and positioning educational ambassadors for National Defense which is mandatory for every profession. 		
Learning Materials/Subjects		Gagal diterjemahkan		
Reference		Main References		
		Ministry of Education and Culture's Campus Teaching Activities Guidebook		
		Additional References		
		Guide to Implementing National Defense in Higher Education		
Teaching Team		Naimah Aris, S.Si.,M.Math., Dr. Firman, S.Si.,M.Si.		
Course requirement				
Week	Sub CPMK (End-of-stage learning ability)	Penilaian (Assesment)		Learning Fo [time
		Indicator	Techniques & Criteria	Offline
1	2	3	4	5
1	Students are able to explain about the concept of defending the country, their goals and roles (CPMK-1)	Formative: <ul style="list-style-type: none"> • Capabilities communication • Precision in providing an explanation regarding the concept of national defense, its objectives and role • Completion in providing an explanation regarding the concept of national defense, its objectives and role Sumative: Gagal diterjemahkan	Formative Criteria: Sumative Criteria: Group Discussion (15) Assessment Technique: Non Test	Studying: Group discussion (Small Group Discussion) Shape: <ul style="list-style-type: none"> • Virtual Look Method: <ul style="list-style-type: none"> • Lecture • Discussion • Group dynamics 1-2 weeks (2 weeks x 170 minutes= 340 minutes= 6 hours)
2	Students are able to put forward and actualize Pancasila as the nation's ideology in the life of the nation and state. (CPMK-2)	Formative: Understanding the values contained in Pancasila to foster a spirit of national defense Sumative: Gagal diterjemahkan	Formative Criteria: Clarity, accuracy and completeness of completion of tasks carried out Sumative Criteria: Group Discussion (15) Assessment Technique: Non Test	Studying: Group discussion (Small Group Discussion) Shape: Stare Face Method: <ul style="list-style-type: none"> • Lecture • Discussion group • Dynamics group 2 Weeks (2 weeks x 170 minutes= 340 minutes= 6 Hours)

3	Students are able to describe and actualize the values and concepts of state defense, through the leadership training of military training/ideas/archipelago insight and food resilience/sovereignty training (CPMK-2)	<p>Formative:</p> <ul style="list-style-type: none"> Activity in discussions in case handling (<i>case study</i>) and group dynamics Accuracy in actualizing the values of defending the country in leadership training: military training/ archipelagic insight/ kewiraan. Accuracy and completeness in actualizing food security/sovereignty training in preparing assignments and presentation. <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Accuracy in demonstrating the values of basic leadership training as part of the National Defense concept</p> <p>Constructing the implementation of the principle of National Defense</p> <p>Sumative Criteria: Case Studies (30)</p> <p>Assessment Technique: Non Test</p>	<p>Studying:</p> <p>Group discussion (Small Group Discussion), Simulation (Role-Play & Simulation), Case Study (Case Study)</p> <p>Shape: Stare Face</p> <p>Method:</p> <ol style="list-style-type: none"> Lecture Tutorial Case study (Group dynamics, Role Play) <p>6 weeks 6 weeks x 170 minutes= 1020 minutes= 17 hours</p>
4	Students are able to compile a design of activities related to their involvement in education or anti -corruption movement; Education or anti -drug abuse movement and education or anti -radicalism movement (CPMK-3)	<p>Formative:</p> <ul style="list-style-type: none"> Conformity of the implementation plan with the substance provided. Accuracy, systematicity and thoroughness in preparing activities as a form of implementation in the anti-corruption Education Movement, anti drug abuse, or anti-radicalism movement Activity in group discussions <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Ability to communicate, convey aims and objectives of activities.</p> <p>Movement/Education Design as an innovative and impactful implementation</p> <p>Sumative Criteria: Project Based (30)</p> <p>Assessment Technique: Gagal diterjemahkan</p>	<p>Studying:</p> <p>Case Study (Case Study)</p> <p>Shape:</p> <ul style="list-style-type: none"> Stare Face Visit region as implementation location <p>Method:</p> <ul style="list-style-type: none"> Tutorial Implementation Activities/ Movements (Education) according to the theme <i>Case study</i> (Group dynamics, <i>Role Play</i>) <p>4 weeks (4x 170 minutes=680 minutes= 11 hours)</p>
5	Students are able to prepare reports and disseminate the implementation of state defense activities (CPMK-3)	<p>Formative:</p> <ul style="list-style-type: none"> Precision time for preparing and submitting assignment reports Discipline Implementation ethics Precision and completeness in the final activity report. Documentation implementation of activities Capabilities present well. <p>Sumative: Gagal diterjemahkan</p>	<p>Formative Criteria:</p> <p>Timeliness and completeness</p> <p>Implementation Report Implementation of concepts and movements related to National Defense.</p> <p>Dissemination Percentage</p> <p>Discussion (Response to activities)</p> <p>Sumative Criteria: Project Report (10)</p> <p>Assessment Technique: Non Test</p>	<p>Seminar:</p> <p>Project-Based Learning (Project-based Learning)</p> <p>Shape:</p> <p>- Seminar</p> <p>Method:</p> <p>- Interactive discussion</p> <p>- Project Based Learning</p> <p>2 Weeks (2 weeks x 170 minutes= 340 minutes= 6 Hours)</p>

Matrix of SLO, CLO, and Assessment Method

SLO / CLO	CLO-1	CLO-2	CLO-3
CPL-8 (S1)	Group Discussion (Weight 15%)	Group Discussion (Weight 15%) Case Studies (Weight 30%)	Project Based (Weight 30%) Project Report (Weight 10%)
CPL-9 (S2)	Group Discussion (Weight 15%)	Group Discussion (Weight 15%) Case Studies (Weight 30%)	Project Based (Weight 30%) Project Report (Weight 10%)

Evaluation Type and Assessment Weight

Type	Assessment Weight
Group Discussion	30
Case Studies	30
Project Based	30
Project Report	10
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						
				Group Discussion	Case Studies	Project Based	Project Report			
SLO-9	CLO-1	SUB-CLO-1		15	0	0	0	15		
SLO-9	CLO-2	SUB-CLO-2	Clarity, accuracy and completeness of completion of tasks carried out	15	0	0	0	15		
SLO-9	CLO-2	SUB-CLO-3	Accuracy in demonstrating the values of basic leadership training as part of the concept of National Defense and constructing the implementation of the principles of National Defense	0	30	0	0	30		
SLO-9	CLO-3	SUB-CLO-4	Ability to communicate, convey aims and objectives of activities. and Movement/Education Design as an innovative and impactful implementation	0	0	30	0	30		
SLO-9	CLO-3	SUB-CLO-5	Timeliness and completeness, Implementation Report on Implementation of concepts and Movements related to National Defense., Percentage of Dissemination and Discussion (Response to activities)	0	0	0	10	10		
				30	30	30	10	100		

