

SEMESTER LEARNING PLAN

**RESEARCH AND SEMINAR FINAL PROJECT RESEARCH RESULTS COURSES
(23H01140404)**



TEACHING TEAM

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

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

Vision

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

Vision Strategy

Mission

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

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

Graduate Profiles

Gagal diterjemahkan

PLO charged to courses

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

CPL-3 (KU1) - The students are able to analyse a mathematical problem with logic, analytic, and systematic structure

CPL-5 (KK1) - The students are able to construct mathematical modelling with relatively new ideas and present the results orally and in writing

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

Course Learning Outcomes (CLO)

CPMK-1: conduct standard mathematics oral presentations (CPL7)

CPMK-2: have self-confidence, good ethics, and good performance in communication (CPL9)

CPMK-3: write scientific research proposals and scientific presentations using different presentation media. (CPL3 dan CPL5)

Sub-CLO

Sub CPMK-1: Understand the themes and research materials to be worked on (CPMK-3)

Sub CPMK-2: Understand the contents of the paper/thesis material and be able to explain the paper well (CPMK-1)

Sub CPMK-3: Getting ideas developed and getting appropriate research workflows (CPMK-3)

Sub CPMK-4: Seminar materials and slides ready for presentation (CPMK-1 dan CPMK-2)

Sub CPMK-5: Mastery of seminar material content, ability to explain seminar material content, ability to

answer questions and generate high self-confidence (CPMK-2)

Learning Analytics

Research and Seminar Results of Final Project Research



Mastery of seminar material content, ability to explain seminar material content, ability to answer questions and generate high self-confidence (CPMK-2)



Seminar materials and slides ready for presentation (CPMK-1 dan CPMK-2)



Getting ideas developed and getting appropriate research workflows (CPMK-3)



Understand the contents of the paper/thesis material and be able to explain the paper well (CPMK-1)



Understand the themes and research materials to be worked on (CPMK-3)



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

Course		Code	Course Group	Credits	SEMESTER	Compilation Date
Research and Seminar Results of Final Project Research		23H01140404		4	8	10 Agustus 2024
AUTHORITY		SLP Developer Lecturer		Coordinator		Head of Study Program
		Dr. Firman, S.Si.,M.Si.		Dr. Firman, S.Si.,M.Si.		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-3:	Mahasiswa mampu menganalisis suatu masalah matematika dengan logika, analitik, dan struktur sistematis				
	SLO-5:	Mahasiswa dapat membangun pemodelan matematika dengan ideide yang relatif baru dan mempresentasikan hasil dengan jelas secara lisan dan tertulis				
	SLO-7:	Mahasiswa dapat menunjukkan keterampilan matematika termasuk menghubungkan masalah, menyelesaikan masalah, interpretasi, dan berkomunikasi secara individu atau dengan kerja tim				
	SLO ⇒ Course Learning Outcomes					
	After completing this course, it is expected:					
	SLO-7	CLO-1: conduct standard mathematics oral presentations				
	SLO-9	CLO-2: have self-confidence, good ethics, and good performance in communication				
	SLO-3	CLO-3: write scientific research proposals and scientific presentations using different presentation media.				
	SLO-5	CLO-3: write scientific research proposals and scientific presentations using different presentation media.				
	CLO ⇒ Sub-CLO					
	CLO-3	Sub-CLO-1:Understand the themes and research materials to be worked on				
		Sub-CLO-3:Getting ideas developed and getting appropriate research workflows				
	CLO-1	Sub-CLO-2:Understand the contents of the paper/thesis material and be able to explain the paper well				
		Sub-CLO-4:Seminar materials and slides ready for presentation				
		Sub-CLO-4:Seminar materials and slides ready for presentation				

	CLO-2	Sub-CLO-5:Mastery of seminar material content, ability to explain seminar material content, ability to answer questions and generate high self-confidence						
	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			
SLO-7	CLO-1	SUB-CLO-2	Accuracy of understanding	20	0	20		
SLO-5	CLO-3	SUB-CLO-3	Accuracy of interpretation	20	0	20		
SLO-9	CLO-2	SUB-CLO-4	Accuracy of understanding	10	0	10		
SLO-9	CLO-2	SUB-CLO-5	Accuracy of understanding	0	50	50		
				50	50	100		
Course Description	The Mathematics II Thesis Seminar Course is a series of students' final assignment courses in the form of a Results seminar							
Learning Materials/Subjects	1. Consulting with the supervisors on the latest research topics in the field of Algebra and Combinatorics/Analysis/Applied Mathematics which are selected as a final project 2. Searching and reading papers and summarizing them related to the material thesis 3. Developing ideas about materials and creating a research framework/workflow 4. Making seminar proposal materials and slides 5. Considering suggestions from examiners related to research improvements to be carried out 6. Answering questions raised by the examiners on their research proposal.							
Reference	Main References							
	Latest papers according to your field of interest.							
	Additional References							
	Gagal diterjemahkan							
Teaching Team								
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
1-2	Understand the themes and research materials to be worked on (CPMK-3)	Formative: Gagal diterjemahkan Sumative: Gagal diterjemahkan	Formative Criteria: Accuracy of understanding Sumative Criteria: Assessment Technique: Non Test	Other Forms: Project-Based Learning (Project-based Learning) TM: 2x2x50		Explanation of the theme and research materials to be worked on	0
3-5	Understand the contents of the paper/thesis material and be able to explain the paper well (CPMK-1)	Formative: Gagal diterjemahkan Sumative: Completeness and accuracy of the paper obtained Mastery of the contents of the paper/ material Clearness of summary report	Formative Criteria: Accuracy of understanding Sumative Criteria: Independent Assignment (20) Assessment Technique: Non Test	Other Forms: Project-Based Learning (Project-based Learning) TM: 3x2x50		read the paper and summarize it related to the thesis material	20
6-8	Getting ideas developed and getting appropriate research workflows (CPMK-3)	Formative: Gagal diterjemahkan Sumative: Results of idea development obtained Writing appropriate workflows	Formative Criteria: Accuracy of interpretation Sumative Criteria: Independent Assignment (20) Assessment Technique: Non Test	Other Forms: Project-Based Learning (Project-based Learning) TM: 3x2x50		Development of ideas about materials and creation of a research framework/workflow	20

9-11	Seminar materials and slides ready for presentation (CPMK-1, CPMK-2)	Formative: Gagal diterjemahkan Sumative: Slide writing and design techniquesTechniques	Formative Criteria: Accuracy of understanding Sumative Criteria: Independent Assignment (10) Assessment Technique: Gagal diterjemahkan	Other Forms: Project-Based Learning (Project-based Learning) TM: 3x2x50		Creation of seminar materials	10
12-16	Mastery of seminar material content, ability to explain seminar material content, ability to answer questions and generate high self-confidence (CPMK-2)	Formative: Seminar Material and Seminar Appearance Sumative: Mastery of Seminar Material, How to answer questions and Results and Material Reports	Formative Criteria: Accuracy of understanding Sumative Criteria: Project Based (50) Assessment Technique: Non Test	Other Forms: Project-Based Learning (Project-based Learning) TM: 5x2x50		Seminar Results	50
							100

Matrix of SLO, CLO, and Assessment Method

SLO / CLO	CLO-1	CLO-2	CLO-3
CPL-3 (KU1)			Independent Assignment (Weight 20%)
CPL-5 (KK1)			Independent Assignment (Weight 20%)
CPL-7 (KK3)	Independent Assignment (Weight 20%) Independent Assignment (Weight 10%)		
CPL-9 (S2)		Independent Assignment (Weight 10%) Project Based (Weight 50%)	

Evaluation Type and Assessment Weight

Type	Assessment Weight
Independent Assignment	50
Project Based	50
Total	100

Assessment and Evaluation of Student Achievement of CLOs

SLOs that are charged on the Course	CLO	SUB CLO	Form of Assessment*			Weight	Value	Student Score
			Formative	Sumative				
				Independent Assignment	Project Based			
SLO-7	CLO-1	SUB-CLO-2	Accuracy of understanding	20	0	20		
SLO-5	CLO-3	SUB-CLO-3	Accuracy of interpretation	20	0	20		
SLO-9	CLO-2	SUB-CLO-4	Accuracy of understanding	10	0	10		
SLO-9	CLO-2	SUB-CLO-5	Accuracy of understanding	0	50	50		
				50	50	100		

