# SEMESTER LEARNING PLAN

**FINAL PROJECT PROPOSAL WRITING AND SEMINAR COURSES**
**(23H01140102)**

**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

## Misson

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-4 (KU2) - The students are able to use their sufficiently mathematical critical thinking for abstraction and generalization of a mathematical problem

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 CPL4)

## 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)

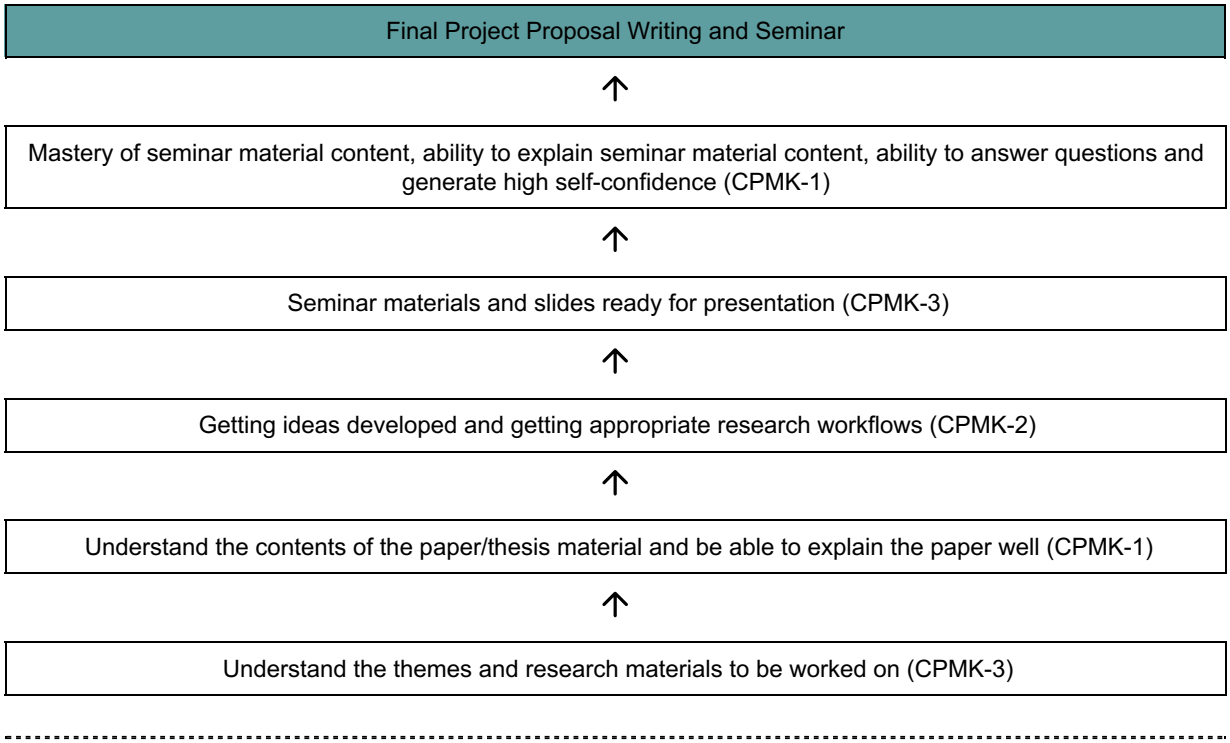
Sub CPMK-3: Getting ideas developed and getting appropriate research workflows (CPMK-2)

Sub CPMK-4: Seminar materials and slides ready for presentation (CPMK-3)

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

answer questions and generate high self-confidence (CPMK-1)

# Learning Analytics



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

| Course | Code | Cource Group | Credits | SEMESTER | Compilation Date |
|---|---|---|---|---|---|
| Final Project Proposal Writing and Seminar | 23H01140102 | Gagal diterjemahkan | 2 | None | None |

| AUTHORITY | SLP Developer Lecturer | Coordinator | Head of Study Program |
|---|---|---|---|
| | Prof. Dr. Nurdin, S.Si., M.Si. | Prof. Dr. Nurdin, 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-4:** | Mahasiswa dapat menggunakan pemikiran kritis matematis mereka yang cukup untuk abstraksi dan generalisasi masalah matematika berdasarkan hasil analisis informasi dan data |
| | **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-4** | **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-4:**Seminar materials and slides ready for presentation |
| | **CLO-1** | **Sub-CLO-2:**Understand the contents of the paper/thesis material and be able to explain the paper well |
| | | **Sub-CLO-5:**Mastery of seminar material content, ability to explain seminar material content, ability to answer questions and generate high self-confidence |
| | **CLO-2** | **Sub-CLO-3:**Getting ideas developed and getting appropriate research workflows |

| | 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-4 | CLO-3 | SUB-CLO-1 | Accuracy of understanding and Accuracy of understanding | 0 | 50 | 50 | | |
| SLO-7 | CLO-1 | SUB-CLO-2 | Accuracy of understanding | 20 | 0 | 20 | | |
| SLO-9 | CLO-2 | SUB-CLO-3 | Accuracy of interpretation | 20 | 0 | 20 | | |
| SLO-4 | CLO-3 | SUB-CLO-4 | Accuracy of understanding | 10 | 0 | 10 | | |
| | | | | 50 | 50 | 100 | | |

| | |
|---|---|
| **Course Description** | Seminar I course is a series of student final assignment courses in the form of a final assignment research proposal 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<br>2. Searching and reading papers and summarizing them related to the thesis material<br>3. Developing ideas about materials and creating a research framework/workflow<br>4. Making seminar proposal materials and slides<br>5. Considering suggestions from examiners related to research improvements to be carried out<br>6. Answering questions raised by the examiners on their research proposal. |
| **Reference** | **Main References** |
| | Gagal diterjemahkan |
| | **Additional References** |
| | Gagal diterjemahkan |
| **Teaching Team** | |
| **Course requirement** | |

| Week | Sub CPMK | Penilaian (*Assesment*) | Learning Forms and Methods [time estimate] | Content | Weight of Assessment |
|---|---|---|---|---|---|

| | (End-of-stage learning ability) | 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:**<br>Gagal diterjemahkan<br>**Sumative:**<br>Gagal diterjemahkan | **Formative Criteria:**<br>Accuracy of understanding<br>**Sumative Criteria:**<br>**Assessment Technique:**<br>Non Test | **Studying:**<br>Project-Based Learning (Project-based Learning)<br>TM: 2x1x50 | | 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:**<br>Gagal diterjemahkan<br>**Sumative:**<br>Completeness and accuracy of the paper obtained Mastery of the contents of the paper/ material Clearness of summary report | **Formative Criteria:**<br>Accuracy of understanding<br>**Sumative Criteria:**<br>Independent Assignment (10)<br>Independent Assignment (10)<br>**Assessment Technique:**<br>Non Test | **Studying:**<br>Project-Based Learning (Project-based Learning)<br>TM: 3x1x50<br>**Studying:**<br>Problem-Based Learning (Problem-based Learning)<br>TM: 3x1x50 | | Searching and reading papers and summarizing them related to the thesis material | 20 |
| 6-8 | Getting ideas developed and getting appropriate research workflows (CPMK-2) | **Formative:**<br>Gagal diterjemahkan<br>**Sumative:**<br>Results of idea development obtained Writing appropriate workflows | **Formative Criteria:**<br>Accuracy of interpretation<br>**Sumative Criteria:**<br>Independent Assignment (20)<br>**Assessment Technique:**<br>Non Test | **Studying:**<br>Project-Based Learning (Project-based Learning)<br>TM: 3x1x50 | | Development of ideas about materials and creation of a research framework/workflow | 20 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 9-11 | Seminar materials and slides ready for presentation (CPMK-3) | **Formative:**<br>Gagal diterjemahkan<br>**Sumative:**<br>Slide writing and design techniquesSlide writing and design techniques | **Formative Criteria:**<br>Accuracy of understanding<br>**Sumative Criteria:**<br>Independent Assignment (10)<br>**Assessment Technique:**<br>Non Test | **Studying:**<br>Project-Based Learning (Project-based Learning)<br>TM: 3x1x50 | | Creation of proposal seminar materials and slides | 10 |
| 12-16 | Understand the themes and research materials to be worked on (CPMK-3) | **Formative:**<br>Seminar Materials and Seminar Appearance<br>**Sumative:**<br>Mastery of Seminar Material, How to answer questions and Results and Material Reports | **Formative Criteria:**<br>Accuracy of understanding<br>**Sumative Criteria:**<br>Project Based (50)<br>**Assessment Technique:**<br>Non Test | **Studying:**<br>Problem-Based Learning (Problem-based Learning)<br>TM: 5x1x50 | | Proposal seminar | 50 |
| | | | | | | | 100 |

**Matrix of SLO, CLO, and Assessment Method**

| SLO / CLO | CLO-1 | CLO-2 | CLO-3 |
|---|---|---|---|
| CPL-3 (KU1) | | | Project Based (Weight 50%)<br>Independent Assignment (Weight 10%) |
| CPL-4 (KU2) | | | Project Based (Weight 50%)<br>Independent Assignment (Weight 10%) |
| CPL-7 (KK3) | Independent Assignment (Weight 20%) | | |
| CPL-9 (S2) | | Independent Assignment (Weight 20%) | |

### 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-4 | CLO-3 | SUB-CLO-1 | Accuracy of understanding and Accuracy of understanding | 0 | 50 | 50 | | |
| SLO-7 | CLO-1 | SUB-CLO-2 | Accuracy of understanding | 20 | 0 | 20 | | |
| SLO-9 | CLO-2 | SUB-CLO-3 | Accuracy of interpretation | 20 | 0 | 20 | | |
| SLO-4 | CLO-3 | SUB-CLO-4 | Accuracy of understanding | 10 | 0 | 10 | | |
| | | | | 50 | 50 | 100 | | |