COURSE PORTFOLIO

Study Program	:	MATHEMATICS - S1
Semester	:	ODD 2023/2024
Course Code	:	23H01131903
Course Name	:	Special Topics in Applied Mathematics
Coordinator	:	Prof. Dr. Syamsuddin Toaha, M.Sc.
Lecturer Team Member	:	Prof. Dr. Syamsuddin Toaha, M.Sc., Prof. Dr. Kasbawati, S.Si., M.Si.

Implementation of Learning

Description of the implementation of the lecture, the suitability of what was planned in the RPS with what was done:

Number and percentage of lecturer and student attendance
(data source: monitoring the attendance of lecturers and students)

	Lecturer Attendance			Student Attendance
Special Topics in Applied Mathematics	Prof. Dr. Syamsuddin Toaha, M.Sc.	:	8 times	Number of students: 30 persons
	Prof. Dr. Kasbawati, S.Si., M.Si.	:	8 times	Presence ≥ 80% : 27 persons (90.00 %)
	Total Meeting : 16 times.			Presence < 80% : 2 persons (6.67 %)

Materials/practicum provided

Discussion of several recent journals that discuss the latest research topics in the field of applied mathematics (the latest research topics/journals in the field of applied mathematics)

The learning methods implemented

Project-based Learning

The assessment method implemented

1. Short Q&A
2. Project Report
3. Presentation
4. Independent Assignment

Supplementary information (if available)

None

2. Learning Outcomes

Measurement results of CLO

Assessment and Evaluation of Student Achievement of CLO[a]

LOs that are charged to the Course	CLO	Assessment Form	Weight	Average student score (0-100)
P2	CLO-1	Short Q&A	5.00 %	30.00
P2	CLO-1	Short Q&A	5.00 %	30.00
P2	CLO-1	Independent Assignment	5.00 %	79.23
P2	CLO-1	Project Report	50.00 %	92.74
KK1	CLO-2	Presentation	10.00 %	81.00
KK1	CLO-2	Presentation	10.00 %	81.00
KK1	CLO-2	Presentation	20.00 %	74.67
KK1	CLO-2	Project Report	50.00 %	92.74
KK3	CLO-3	Independent Assignment	5.00 %	79.23
KK3	CLO-3	Independent Assignment	5.00 %	79.23
KK3	CLO-3	Presentation	10.00 %	81.00
KK3	CLO-3	Presentation	20.00 %	74.67
KK3	CLO-3	Presentation	20.00 %	74.67
KK3	CLO-3	Project Report	10.00 %	78.33
KK3	CLO-3	Project Report	50.00 %	92.74

a: result criteria: very satisfactory if the average score is ≥ 80; satisfactory if the average score is 70 - 79.9; unsatisfactory if the average score is < 70.

Percentage of students who achieved a very satisfactory CLO score [b]

(data source: student scores per assessment according to CLOs)

CLO	% of students who achieved a CLO score of at least 80
CLO-1	96.67%
CLO-2	90.00%
CLO-3	93.33%
CLO-1	0.00%
CLO-2	96.67%
CLO-3	83.33%
CLO-1	0.00%
CLO-2	0.00%
CLO-3	0.00%

b: result criteria: very satisfactory if ≥80% of students score ≥80; satisfactory if 70%-79.9% of students score ≥80; less satisfactory if < 70% of students score ≥80.

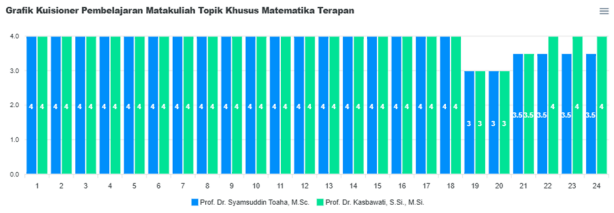
Course Grade

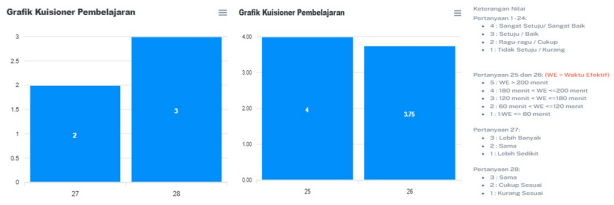
Course Grade	Number and Percentage of Students
A	29 (96.7%)
A-	0 (0.0%)
B+	0 (0.0%)
B	0 (0.0%)
B-	0 (0.0%)
C+	0 (0.0%)
C	0 (0.0%)
D	0 (0.0%)
E	1 (3.3%)

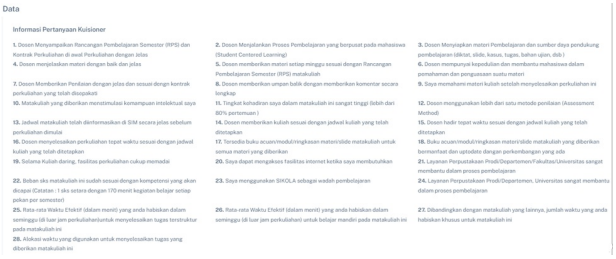
3. Learning evaluation (survey) results

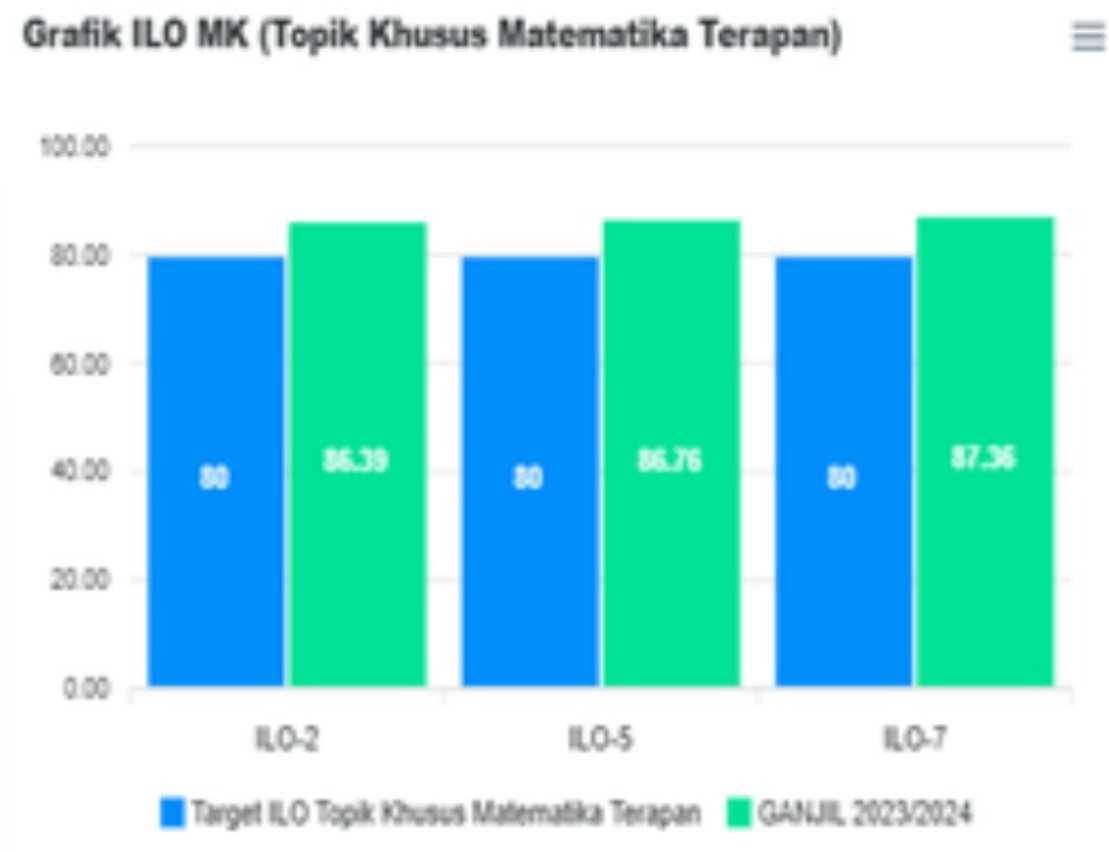
(data source: items / narratives of the results of the MK evaluation questionnaire by students)

Hasil Evaluasi Pembelajaran Matakuliah Teori Khusus Matematika Terapan









Hasil Pengukuran CPL Mata Kuliah Topik Khusus Matematika Terapan

4. Analysis and Reflection

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Analysis

Analysis of the data shows that the performance in the Applied Mathematics Special Topics Course is at a very good and satisfactory level. Learning outcomes in all measured aspects have consistently succeeded in meeting and even exceeding the targets set. In addition, the performance shown is very even and stable across all learning outcomes, without any significant gaps between one area and another, which indicates the success of the comprehensive learning process in that period.

Reflection

This superior and consistent performance reflects that the course design and implementation has been very effective. There is strong alignment between the teaching process, the material provided, and the evaluation system, so that students are able to achieve learning goals very well. Therefore, follow-up for this course is no longer corrective, but focuses on efforts to maintain existing standards of excellence. The reflection is the importance of documenting existing good practices and continuing to carry out continuous optimization to maintain consistent quality in the future.

5. Follow-up Plan

In response to the excellent and consistent achievements in the Applied Mathematics Special Topics Course, where all learning targets were successfully exceeded, the follow-up plan is not remedial in nature, but focuses on standardization of good practice and quality sustainability. This step will include official documentation of teaching

methods and evaluation systems that have been proven effective to serve as reference models, as well as ongoing monitoring to ensure these standards of excellence are maintained. The main goal is to maintain consistent high performance and make this course a model for others.

6. Follow-up results on the previous semester's evaluation

Following up on the findings of the previous semester's evaluation for the Applied Mathematics Special Topics Course, which showed very superior performance and consistently exceeding targets, an action plan focused on standardizing good practices and optimizing has been implemented. Continuous innovation to maintain the standards of excellence that have been achieved and need to be implemented for the next semester.

Makassar, 21 Oktober 2025

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