

## COURSE PORTFOLIO

Study Program	: MATHEMATICS - S1
Semester	: EVEN 2024/2025
Course Code	: 23H01110703
Course Name	: Statistical Methods
Coordinator	: Nur Rohmah Oktaviani Putri, S.Si., M.Si
Lecturer Team Member	: Prof. Dr. Aidawayati Rangkuti, MS., Nur Rohmah Oktaviani Putri, 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
Statistical Methods A	Prof. Dr. Aidawayati Rangkuti, MS.	: 8 times	Number of students: 47 persons
	Nur Rohmah Oktaviani Putri, S.Si., M.Si	: 8 times	Presence $\geq$ 80% : 46 persons (97.87 %)
			Presence < 80% : 1 person (2.13 %)
	Total Meeting : 16 times.		
Statistical Methods B	Prof. Dr. Aidawayati Rangkuti, MS.	: 8 times	Number of students: 38 persons
	Nur Rohmah Oktaviani Putri, S.Si., M.Si	: 8 times	Presence $\geq$ 80% : 38 persons (100.00 %)
			Presence < 80% : 0 person (0.00 %)
	Total Meeting : 16 times.		

### Materials/practicum provided

Data description, Data presentation, Data center measurement, Data dispersion measurement, Random variable and probability, Probability distribution, Sampling distribution, Parameter estimation, Testing hypothesis (Hypothesis testing)

### The learning methods implemented

Discovery Learning, Case Study

### The assessment method implemented

1. Quiz
2. Case Studies
3. Independent Assignment

**Supplementary information (if available)**

None

**2. Learning Outcomes****Measurement results of CLO**Assessment and Evaluation of Student Achievement of CLO<sup>a</sup>

<b>LOs that are charged to the Course</b>	<b>CLO</b>	<b>Assessment Form</b>	<b>Weight</b>	<b>Average student score (0-100)</b>
ILO 1	CLO-1	Independent Assignment	15.00 %	86.28
ILO 1	CLO-1	Quiz	10.00 %	54.12
ILO 1	CLO-2	Independent Assignment	15.00 %	86.28
ILO 1	CLO-2	Quiz	35.00 %	61.31
ILO 1	CLO-2	Case Studies	20.00 %	92.58
KK2	CLO-2	Independent Assignment	15.00 %	86.28
KK2	CLO-2	Quiz	35.00 %	61.31
KK2	CLO-2	Case Studies	20.00 %	92.58
KK2	CLO-3	Quiz	35.00 %	61.31
KK2	CLO-3	Case Studies	20.00 %	91.11
KK3	CLO-3	Quiz	35.00 %	61.31
KK3	CLO-3	Case Studies	20.00 %	91.11
KK3	CLO-4	Quiz	10.00 %	54.12
S2	CLO-4	Quiz	10.00 %	54.12

a: result criteria: very satisfactory if the average score is  $\geq 80$ ; 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<sup>b</sup>***(data source: student scores per assessment according to CLOs)*

<b>CLO</b>	<b>% of students who achieved a CLO score of at least 80</b>
CLO-1	51.76%
CLO-2	38.82%
CLO-3	44.71%
CLO-4	22.35%

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

**Course Grade**

<b>Course Grade</b>	<b>Number and Percentage of Students</b>
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Course Grade	Number and Percentage of Students
A	29 (34.1%)
A-	10 (11.8%)
B+	13 (15.3%)
B	10 (11.8%)
B-	9 (10.6%)
C+	7 (8.2%)
C	3 (3.5%)
D	0 (0.0%)
E	4 (4.7%)

### 3. Learning evaluation (survey) results

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

#### Hasil Evaluasi pembelajaran mata kuliah Metode Statistika

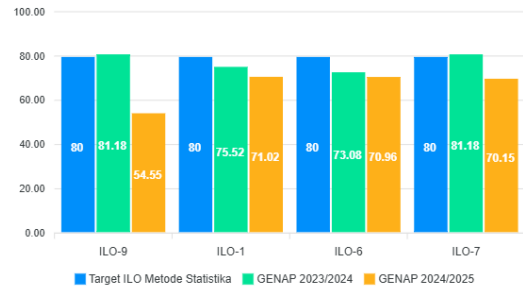


#### Informasi Pertanyaan Kuisioner

1. Dosen Menyampaikan Rancangan Pembelajaran Semester (RPS) dan Kontrol Perkuliahan di awal Perkuliahan dengan jelas
2. Dosen Menyampaikan Proses Pembelajaran yang berpusat pada mahasiswa (Student Centered Learning)
3. Dosen Menyampaikan materi Pembelajaran dan sumber daya pendukung pembelajaran (LKS, slide, kasus, tugas, bahan ajar, dll.)
4. Dosen Menyampaikan materi dengan baik dan jelas
5. Dosen memberikan materi setiap minggu sesuai dengan Rancangan Pembelajaran Semester (RPS) matakuliah
6. Dosen memberikan umpan balik dengan memberikan komentar secara lengkap
7. Dosen Memberikan Penilaian dengan jelas dan sesuai dengan kriteria perkuliahan yang telah ditetapkan
8. Dosen memberikan umpan balik dengan memberikan komentar secara lengkap
9. Matakuliah yang diberikan memotivasi kemampuan intelektual siswa
10. Dosen memberikan umpan balik dengan memberikan komentar secara lengkap
11. Tingkat kehadiran siswa dalam matakuliah ini sangat tinggi (lebih dari 80% pertemuan)
12. Dosen memberikan umpan balik dengan memberikan komentar secara lengkap
13. Jadwal matakuliah telah diformulasikan di SIM secara jelas sebelum perkuliahan dimulai
14. Dosen menyampaikan perkuliahan tepat waktu sesuai dengan jadwal kuliah yang telah ditetapkan
15. Selama kuliah daring, fasilitas perkuliahan cukup memadai
16. Dosen menyampaikan perkuliahan tepat waktu sesuai dengan jadwal kuliah yang telah ditetapkan
17. Tersedia buku acuan/modul/mingasan materi/ide matakuliah untuk semua materi yang diberikan
18. Dosen menyampaikan perkuliahan tepat waktu sesuai dengan jadwal kuliah yang telah ditetapkan
19. Selama kuliah daring, fasilitas perkuliahan cukup memadai
20. Saya dapat mengakses fasilitas internet ketika saya membutuhkan
21. Saya dapat mengakses fasilitas internet ketika saya membutuhkan
22. Bahan dan matakuliah ini sudah sesuai dengan kompetensi yang akan dicapai (Catatan: 1 jika setuju dengan 170 menit kegiatan belajar setiap pertemuan per semester)
23. Saya menggunakan SKOLA sebagai wadah pembelajaran
24. Layanan Perpustakaan Prodi/Departemen/Fakultas/Universitas sangat membantu dalam proses pembelajaran
25. Rata-rata Waktu Efektif (dalam menit) yang anda habiskan dalam seminggu 10 jam perkuliahan untuk menyelesaikan tugas terstruktur pada matakuliah ini
26. Rata-rata Waktu Efektif (dalam menit) yang anda habiskan dalam seminggu 10 jam perkuliahan untuk belajar mandiri pada matakuliah ini
27. Dilandangin dengan matakuliah yang lainnya, jumlah waktu yang anda habiskan khusus untuk matakuliah ini

#### Hasil pengukuran CPL Mata Kuliah Statistika

##### Grafik ILO MK (Metode Statistika)



### 4. Analysis and Reflection

## Analysis

### 1. Drastic Decline in Leading Performance Areas

Data analysis shows a very drastic decline in performance in CPL which was previously a leading area. ILO-9, which in the 2023/2024 period reached a very high score of 85.83, collapsed to a critical level of 54.55 in the 2024/2025 period, or fell by more than 31 points. Something similar happened to ILO-7, which fell sharply from 85.83 to 70.15, losing its lead.

### 2. Stagnation in Low Performance Areas

In addition to the decline in superior areas, the data also shows stagnation in CPL, whose performance has been low since the beginning. ILO-1 and ILO-6, which in the 2023/2024 period were already below the target (score 72-73), did not show significant improvement in the following period. The performance of both remains stagnant at the same level and is consistently below the target of 80.

## Reflection

### 1. Indications of Double Trouble: Regression and Stagnation

This condition reflects that the Statistical Methods course faces two different problems simultaneously. The sharp decline in ILO-9 and ILO-7 suggests a regression problem, where previously highly effective methods may have been changed or are no longer successfully applied. On the other hand, performance that does not improve in ILO-1 and ILO-6 indicates a problem of stagnation, namely persistent learning difficulties for which no solution has been found.

### 2. The Need for a Different Follow-up Plan for Each Problem

A reflection of this dual problem is that one type of intervention will not be enough. Follow-up plans should be specific and differentiated: for ILO-9 and ILO-7, the focus was on investigations to restore lost "good practices". Meanwhile for ILO-1 and ILO-6, the focus is innovation, namely looking for new and more effective teaching and evaluation approaches to solve the problem of chronic learning difficulties.

## 5. Follow-up Plan

Based on the graph of CPL measurement results for the Statistical Methods course, it can be seen that there is a significant decline in ILO-0 and ILO-7 achievements in the Even semester 2024/2025. To overcome this, it is necessary to develop a follow-up plan that focuses on strengthening the core material relevant to the ILO, especially on topics that have a high level of difficulty. Teaching strategies will be optimized by integrating problem-based learning (PBL) methods to increase students' understanding and practical abilities in solving problems. In addition, additional or remedial classes will be held for students who have low achievements as well as providing graded practice question modules to facilitate independent practice.

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

The improvement results from the previous reflection show good effectiveness as shown by the survey results obtained. However, from the results of measuring CPL achievement, improvements still need to be made in the next semester.

Makassar, 15 Oktober 2025

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