COURSE PORTFOLIO

Study Program	:	MATHEMATICS - S1
Semester	:	EVEN 2023/2024
Course Code	:	23H01121603
Course Name	:	Dynamic Systems
Coordinator	:	Prof. Dr. Syamsuddin Toaha, M.Sc.
Lecturer Team Member	:	Prof. Dr. Syamsuddin Toaha, M.Sc., Prof. Dr. Kasbawati, S.Si., M.Si., Prof. Dr. Jeffry Kusuma

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
Dynamic Systems	Prof. Dr. Syamsuddin Toaha, M.Sc.	:	times	
	Prof. Dr. Jeffry Kusuma	:	times	Number of students: 40 persons
	Prof. Dr. Kasbawati, S.Si., M.Si.	:	times	Presence ≥ 80% : Presence < 80% :
	Total Meeting : times.			

Materials/practicum provided

1. Linear System
2. Nonlinear System
3. Local and Global Stability
4. Bifurcation

The learning methods implemented

Meeting 1-2

Lecture: Collaborative learning (Collaborative Learning),Other methods

TM:2X3X50

3-4 Meetings

Lecture: Group discussion (Small Group Discussion), Learning collaborative (Collaborative Learning)

TM:2X3X50

5-6 Meetings

Lecture: Group discussion (Small Group Discussion), Learning collaborative (Collaborative Learning)

TM:2X3X50

Meeting 7

Lecture: Group discussion (Small Group Discussion)

TM:1X3X50

8th Meeting

UTS

9-11th Meeting

Lecture: Group discussion (Small Group Discussion), Learning collaborative (Collaborative Learning), Other methods

TM:3X3X50

12-14 Meeting

Lecture: Group discussion (Small Group Discussion), Learning collaborative (Collaborative Learning), Other methods

TM:3X3X50

Meeting 15

Meeting 16

UAS

The assessment method implemented

1. Case Studies
2. 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)
KU2	CLO-1	Case Studies	15.00 %	69.09
KU2	CLO-1	Independent Assignment	15.00 %	69.09
KU2	CLO-1	Independent Assignment	10.00 %	69.09
KU2	CLO-2	Case Studies	15.00 %	69.09
KU2	CLO-2	Independent Assignment	15.00 %	69.09
KU2	CLO-3	Independent Assignment	15.00 %	69.09
KU2	CLO-3	Case Studies	15.00 %	69.09
KK1	CLO-3	Independent Assignment	15.00 %	69.09
KK1	CLO-3	Case Studies	15.00 %	69.09
KK1	CLO-4	Case Studies	15.00 %	69.09
KK1	CLO-4	Independent Assignment	15.00 %	69.09
KK2	CLO-1	Independent Assignment	15.00 %	69.09
KK2	CLO-1	Case Studies	15.00 %	69.09
KK2	CLO-1	Independent Assignment	10.00 %	69.09
KK2	CLO-2	Independent Assignment	15.00 %	69.09
KK2	CLO-2	Case Studies	15.00 %	69.09
KK2	CLO-3	Case Studies	15.00 %	69.09
KK2	CLO-3	Independent Assignment	15.00 %	69.09
KK2	CLO-4	Independent Assignment	15.00 %	69.09
KK2	CLO-4	Case Studies	15.00 %	69.09

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	15.00%
CLO-2	15.00%
CLO-3	15.00%
CLO-4	15.00%
CLO-5	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

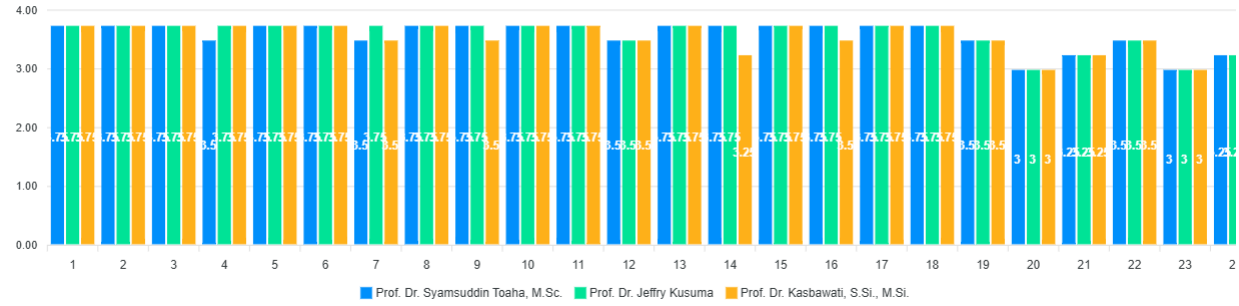
Course Grade	Number and Percentage of Students
A	1 (2.5%)
A-	5 (12.5%)
B+	10 (25.0%)
B	16 (40.0%)
B-	3 (7.5%)
C+	1 (2.5%)
C	1 (2.5%)
D	0 (0.0%)
E	3 (7.5%)

3. Learning evaluation (survey) results

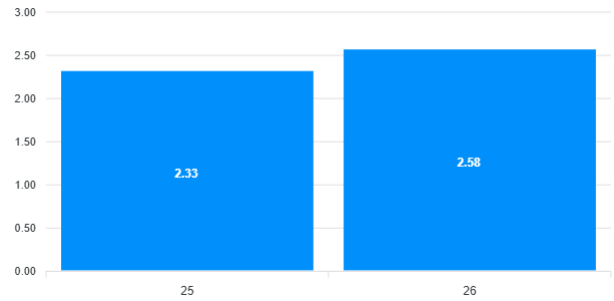
(data source: items / narratives of the results of the MK evaluation questionnaire by students)

test

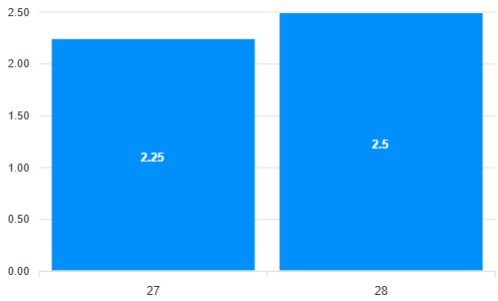
Grafik Kuisioner Pembelajaran Matakuliah Sistem Dinamik



Grafik Kuisioner Pembelajaran



Grafik Kuisioner Pembelajaran



Keterangan Nilai

Pertanyaan 1-24:

- 4 : Sangat Setuju/ Sangat Baik
- 3 : Setuju / Baik
- 2 : Ragu-ragu / Cukup
- 1 : Tidak Setuju / Kurang

Pertanyaan 25 dan 26: (WE = Waktu Efektif)

- 5 : WE > 200 menit
- 4 : 180 menit < WE <=200 menit
- 3 : 120 menit < WE <=180 menit
- 2 : 60 menit < WE <=120 menit
- 1 : 1WE <= 60 menit

Pertanyaan 27:

- 3 : Lebih Banyak
- 2 : Sama
- 1 : Lebih Sedikit

Pertanyaan 28:

- 3 : Sama
- 2 : Cukup Sesuai
- 1 : Kurang Sesuai

Informasi Pertanyaan Kuisioner

1. Dosen Menyampaikan Rancangan Pembelajaran Semester (RPS) dan Kontrak Perkuliahan di awal Perkuliahan dengan Jelas

2. Dosen Menjalankan Proses Pembelajaran yang berpusat pada mahasiswa (Student Centered Learning)

3. Dosen Menyiapkan materi Pemebelajaran dan sumber daya pensukung pwmbelajaran (diktat, slide, kasus, tugas, bahan ujian, dsb)

4. Dosen menjelaskan materi dengan baik dan jelas

5. Dosen memberikan materi setiap minggu sesuai dengan Rancangan Pembelajaran Semester (RPS) matakuliah

6. Dosen mempunyai kepedulian dan membantu mahasiswa dalam pemaham penguasaan suatu materi

7. Dosen Memberikan Penilaian dengan jelas dan sesuai dengn kontrak perkuliahan yang telah disepakati

8. Dosen memberikan umpan balik dengan memberikan komentar secara lengkap

9. Saya memahami materi kuliah setelah menyelesaikan perkuliahan ini

10. Matakuliah yang diberikan menstimulasi kemampuan intelektual saya

11. Tingkat kehadiran saya dalam matakuliah ini sangat tinggi (lebih dari 80% pertemuan)

12. Dosen menggunakan lebih dari satu metode penilaian (Assessment Metho

13. Jadwal matakuliah telah diinformasikan di SIM secara jelas sebelum perkuliahan dimulai

14. Dosen memberikan kuliah sesuai dengan jadwal kuliah yang telah ditetapkan

15. Dosen hadir tepat waktu sesuai dengan jadwal kuliah yang telah ditetapk

16. Dosen menyelesaikan perkuliahan tepat waktu sesuai dengan jadwal kuliah yang telah ditetapkan

17. Tersedia buku acuan/modul/ringkasan materi/slide matakuliah untuk semua materi yang diberikan

18. Buku acuan/modul/ringkasan materi/slide matakuliah yang diberikan berr dan uptodate dangan perkembangan yang ada

19. Selama Kualiah daring, fasilitas perkuliahan cukup memadai

20. Saya menggunakan SIKOLA sebagai wadah pembelajaran

21. Layanan Perpustakaan Prodi/Departemen/Fakultas/Universitas sangat me dalam proses pembelajaran

22. Beban sks matakuliah ini sudah sesuai dengan kompetensi yang akan dicapai (Catatan : 1 sks setara dngan 170 menit kegiatan belajar setiap pekan per semester)

23. Saya menggunakan SIKOLA sebagai wadah pembelajaran

24. Layanan Perpustakaan Prodi/Departemen,Universitas sangat membantu d proses pembelajaran

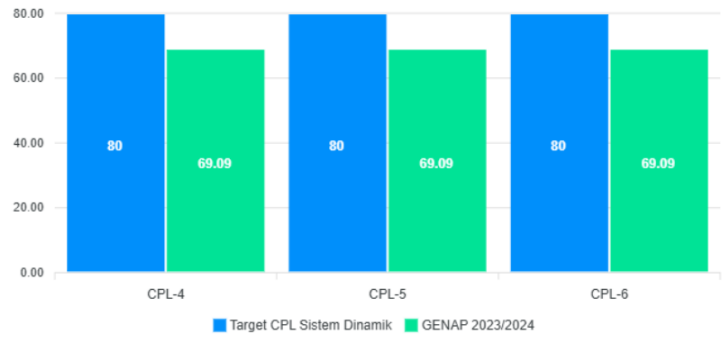
25. Rata-rata Waktu Efektif (dalam menit) yang anda habiskan dalam seminggu (di luar jam perkuliahan)untuk menyelesaikan tugas terstrukturpada matakuliah ini

26. Rata-rata Waktu Efektif (dalam menit) yang anda habiskan dalam seminggu (di luar jam perkuliahan) unuk belajar mandiri pada matakuliah ini

27. Dibandingkan dengan matakuliah yang lainnya, jumlah waktu yang anda h khusus untuk matakuliah ini

28. Alokasi waktu yang digunakan untuk menyelesaikan tugas yang diberikan matakuliah ini

Grafik CPL MK (Sistem Dinamik)



Hasil Pengukuran CPL MK Sistem Dinamik

4. Analysis and Reflection

Analysis and reflection

Analysis

Analysis of the data shows that the performance of the Dynamic Systems Course is at a good level, but has not succeeded in achieving the expected targets. Learning outcomes in all aspects measured are consistently below established standards. The pattern of performance demonstrated is very even and stable across learning outcomes, with no areas being significantly weaker or stronger than others. This indicates that the challenges faced are comprehensive and not focused on a particular topic.

Reflection

Stable but consistent performance below this target reflects that the learning foundation in this course is quite strong, but there is a systematic gap between the learning process and the expected standards of excellence. The challenge is not to correct significant weaknesses, but rather to push achievements from 'good' to 'very good' levels to meet target standards. Because the problem is widespread, the necessary follow-up will likely not be specific to one topic, but rather will be general improvement strategies that can lift overall performance, such as strengthening practice sessions or adding more in-depth case studies to all material.

5. Follow-up Plan

In response to the good but consistently below target achievements in the Dynamic Systems Course, the follow-up plan will not be a fundamental improvement, but will focus on a comprehensive optimization strategy. This step will include strengthening practice sessions and more in-depth case studies to strengthen the bridge between theoretical concepts and practical applications, as well as carrying out light calibration of the assessment system to further encourage students to reach a level of excellence. The aim is to provide the necessary encouragement so that this already solid performance can be lifted uniformly to exceed the set target standards.

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

Following up on the findings of the previous semester's evaluation for the Dynamic Systems Course, which identified performance that was good but consistently below target, an action plan focusing on optimization has been implemented. This strategy centers on strengthening practice sessions and more in-depth case studies to improve students' practical application skills. This approach is recommended to be maintained in the future in the next semester.

Makassar, 21 Oktober 2025

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