COURSE PORTFOLIO

 Study Program
 : MATHEMATICS - S1

 Semester
 : EVEN 2023/2024

 Course Code
 : 23H01110604

Course Name : Algorithms and Programming
Coordinator : Dr. Khaeruddin, M.Sc.

Lecturer Team Member : Dr. Khaeruddin, M.Sc., 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 Atten	dance		Student Attendance
	Prof. Dr. Jeffry Kusuma	:	times	Number of students: 40 persons
Algorithms and Programming A	Dr. Khaeruddin, M.Sc.	:	times	·
Algorithms and Flogramming A	Total Meeting : times.			Presence ≥ 80% : Presence < 80% :
	Prof. Dr. Jeffry Kusuma	:	times	Number of students: 38 persons
Algorithms and Programming B	Dr. Khaeruddin, M.Sc.	:	times	Number of students, 36 persons
Algoriums and Programming B	Total Meeting : times.			Presence ≥ 80% : Presence < 80% :

Materials/practicum provided

- 1. Definition of Algorithm, Paradigm of Programming, Algorithm Notation)
- 2. Introduction to programming language, variables, data types and operators in programming languages (Introduction to Programming language, variables, operators)
- 3. Conditional Branching
- 4. Looping
- 5. Arrays
- 6. Sub programs in the form of functions and procedures
- 7. Error Handling

The learning methods implemented

Meeting 1-2

Lecture: Discovery Learning

TM:2x3x50

Meeting 3

Lecture: Discovery Learning

TM:3x50

4-5 Meetings

Lecture: Discovery Learning

TM:2x3x50

6-8 Meetings

Lecture: Case Study (Case Study) Group Assignments in week 6-7:

1. Students dig ideas by doing journal literature study, web, or references other 2. The lecturer gives assignment to each group

TM:2x3x50

Lectures: Case Study

Group Presentation in week 8: Student present the results discussion in class and responded to directly by other students, the lecturer acts as facilitator

TM:3x50

9-10 Meetings

Lecture: Discovery Learning

TM:2x3x50

11-12 Meeting

Lecture: Discovery Learning

TM:2x3x50

13-14 Meeting

Lecture: Discovery Learning

TM:2x3x50

15-16 Meeting

Lecture: Case Study (Case Study)

Group Assignments in week 15:

1. Students dig ideas by doing journal literature study, web, or references other 2. The lecturer gives assignment to each group

TM:3x50

Lectures: Case Study (Case Study)

Group Presentation at week 16: Student present the results discussion in class and responded to directly by other students, the lecturer acts as facilitator

TM:3x50

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^a

LOs that are charged to the Course	CLO	Assessment Form	Weight	Average student score (0-100)
ILO 1	CLO-1	Independent Assignment	15.00 %	81.65
ILO 1	CLO-1	Case Studies	25.00 %	82.36
ILO 1	CLO-1	Quiz	10.00 %	81.12
ILO 1	CLO-4	Quiz	10.00 %	81.12
ILO 1	CLO-4	Independent Assignment	15.00 %	81.71
ILO 1	CLO-4	Case Studies	25.00 %	82.36
KK2	CLO-2	Independent Assignment	15.00 %	81.71
KK2	CLO-2	Case Studies	25.00 %	82.36
KK2	CLO-2	Quiz	10.00 %	81.12
ккз	CLO-2	Independent Assignment	15.00 %	81.71
ккз	CLO-2	Case Studies	25.00 %	82.36
ккз	CLO-2	Quiz	10.00 %	81.12
ккз	CLO-3	Independent Assignment	15.00 %	81.71
ккз	CLO-3	Case Studies	25.00 %	82.36
ккз	CLO-3	Quiz	10.00 %	81.12
ккз	CLO-4	Quiz	10.00 %	81.12
ккз	CLO-4	Case Studies	25.00 %	82.36
ккз	CLO-4	Independent Assignment	15.00 %	81.71
S2	CLO-4	Quiz	10.00 %	81.12
S2	CLO-4	Independent Assignment	15.00 %	81.71
S2	CLO-4	Case Studies	25.00 %	82.36
KK1	CLO-1	Case Studies	25.00 %	82.36
KK1	CLO-1	Quiz	10.00 %	81.12
KK1	CLO-1	Independent Assignment	15.00 %	81.65
KK1	CLO-2	Quiz	10.00 %	81.12

LOs that are charged to the Course	CLO	Assessment Form	Weight	Average student score (0-100)
KK1	CLO-2	Case Studies	25.00 %	82.36
KK1	CLO-2	Independent Assignment	15.00 %	81.71

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	84.62%				
CLO-2	87.18%				
CLO-3	87.18%				
CLO-4	87.18%				

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	15 (19.2%)	
A-	56 (71.8%)	
B+	6 (7.7%)	
В	0 (0.0%)	
B-	0 (0.0%)	
C+	0 (0.0%)	_
С	0 (0.0%)	
D	0 (0.0%)	
E	1 (1.3%)	

3. Learning evaluation (survey) results

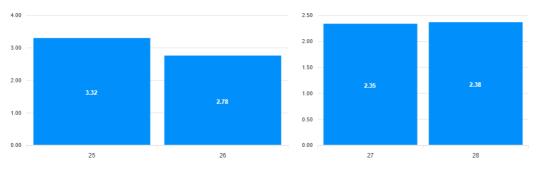
(data source: items / narratives of the results of the MK evaluation questionnaire by students)

Grafik Kuisioner Pembelajaran Matakuliah Algoritma dan Pemrograman





Grafik Kuisioner Pembelajaran



Keterangan Nilai

Pertanyaan 1-24:

- 2 : Ragu-ragu / Cukup
 1 : Tidak Setuju / Kurang

- . 2:60 menit < WE <=120 meni
- 1:1:WE <= 60 menit

- 3 : Lebih Banyak2 : Sama

Portanyaan 28-

matakuliah ini

- . 1: Kurang Sesuai

Informasi Pertanyaan Kuisioner

- 1. Dosen Menyampaikan Rancangan Pembelajaran Semester (RPS) dan Kontrak Perkuliahan di awal Perkuliahan dengan Jelas
- 4. Dosen menjelaskan materi dengan baik dan jelas
- 7. Dosen Memberikan Penilaian dengan jelas dan sesuai denga kontrak perkuliahan
- 10. Matakuliah yang diberikan menstimulasi kemampuan intelektual saya
- 13. Jadwal matakuliah telah diinformasikan di SIM secara jelas sebelum perkuliahan
- 16. Dosen menyelesaikan perkuliahan tepat waktu sesuai dengan iadwal kuliah yang
- 19. Selama Kualiah daring, fasilitas perkuliahan cukup memadai
- (Catatan: 1 sks setara dngan 170 menit kegiatan belajar setiap pekan per semester) 25. Rata-rata Waktu Efektif (dalam menit) yang anda habiskan dalam seminggu (di luar iam perkuliahan)untuk menyelesaikan tugas terstrukturpada matakuliah ini 28. Alokasi waktu yang digunakan untuk menyelesaikan tugas yang diberikan
- Centered Learning)
- 5 Doson memberikan materi setian minggu sesuai dengan Rancangan Pembelaiaran
- 8. Dosen memberikan umpan balik dengan memberikan komentar secara lengkan
- 11. Tingkat kehadiran saya dalam matakuliah ini sangat tinggi (lebih dari 80%
- 14. Dosen memberikan kuliah sesuai dengan jadwal kuliah yang telah ditetapkan
- 20. Saya menggunakan SIKOLA sebagai wadah pembelajaran
- 23. Saya menggunakan SIKOLA sebagai wadah pembelajaran
- 26. Rata-rata Waktu Efektif (dalam menit) yang anda habiskan dalam seminggu (di luar iam perkuliahan) unuk belaiar mandiri pada matakuliah ini

- pwmbelajaran (diktat, slide, kasus, tugas, bahan ujian, dsb)
- 6. Dosen mempunyai kepedulian dan membantu mahasiswa dalam pemaha
- 9. Sava memahami materi kuliah setelah menyelesaikan perkuliahan ini
- 12. Dosen menggunakan lebih dari satu metode penilaian (Assessment Metho
- 15. Dosen hadir tepat waktu sesuai dengan jadwal kuliah yang telah ditetapka
- an uptodate dangan perkembangan yang ada 21. Layanan Perpustakaan Prodi/Departemen/Fakultas/Universitas sangat me
- 24. Layanan Perpustakaan Prodi/Departemen,Universitas sangat membantu o
- 27. Dibandingkan dengan matakuliah yang lainnya, jumlah waktu yang anda l khusus untuk matakuliah ini

Grafik CPL MK (Algoritma dan Pemrograman)



Hasil Pengukuran CPL MK Algoritma dan Pemrograman

4. Analysis and Reflection

Analysis and reflection

Analysis

Analysis of the data shows that the performance of the Algorithms and Programming Course is at a very good and satisfactory level. Learning outcomes in all measured aspects have consistently succeeded in meeting and even slightly exceeding the set targets. Apart from that, the performance shown was 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 during that period.

Reflection

This superior and consistent performance reflects that the design and implementation of the course has run very effectively. 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 good practices that are already underway 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 Algorithms and Programming Course, where all learning targets were successfully exceeded, the follow-up plan is not remedial in nature, but focuses on standardization of good practices and quality sustainability. This step will include official documentation of teaching methods, practicum modules, and evaluation systems that have been proven effective to serve as reference models. The main goal is to maintain consistent high performance in future course implementation and make it a model for other basic courses.

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

Follow-up implementation that focuses on standardizing good practices has succeeded in maintaining performance at a satisfactory level, so that quality

maintenance needs to be carried out continuously in the following semester.

Makassar, 21 Oktober 2025

Dr. Khaeruddin, M.Sc. NIP 196509141991031003