COURSE PORTFOLIO

 Study Program
 : MATHEMATICS - S1

 Semester
 : ODD 2024/2025

 Course Code
 : 23H01131303

 Course Name
 : Cryptography

Coordinator : Muhammad Sadno, S.Si., M.Si

Lecturer Team Member : Muhammad Sadno, S.Si., M.Si, Dra. Nur Erawati, M.Si., Dr. Andi Muhammad Anwar, 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
	Dra. Nur Erawati, M.Si.	:	6 times	
	Dr. Andi Muhammad Anwar, S.Si., M.Si	:	5 times	Number of students: 30 persons
Cryptography	Muhammad Sadno, S.Si., M.Si	:	5 times	Presence ≥ 80% : 29 persons (96.67 %) Presence < 80% : 1 person (3.33 %)
	Total Meeting: 16 times.			

Materials/practicum provided

- 1. Data communication security in computer networks (Data communication security in computer networks)
- 2. Explanation of Classical Cryptography (Classical Cryptography expalnation)
- 3. Review of algebra concepts about Groups, Rings and Fields (Algebra concepts about Groups, Rings, and Fields review)
- 4. Explanation of Modern Symmetric Cryptography Explanation
- 5. Explain about DES block password explanation
- 6. Review the concept of number theory on Public-key Cryptography
- 7. Explain about Public Key Cryptography (Public-key Cryptography Explanation)
- 8. Explains the Hasing Function for Cryptography (Hashing Function for Cryptography Explanation)
- 9. Explains about digital signatures (digital signature explanation)

The learning methods implemented

Meeting 1

Lecture: Other methods Lecture

Time: 3x50 Meeting 2

Lecture: Case Study (Case Study), Learning collaborative (Collaborative Learning)

Time: 3x50
3-4 Meetings

Lecture: Simulation (Role-Play & Simulation), Method others

Time: 2 x 3x50 5 Meetings

Lecture: Other methods Lecture

Time: 3x50 6-7 Meetings

Lecture: Case Study (Case Study), Learning cooperative (Cooperative learning)

Time: 2 x 3x50

Meeting 8

Midterm Exam

Meeting 9

Lecture: Case Study (Case Study), Learning cooperative (Cooperative learning)

Time: 3 x 50

10-11 Meeting

Lecture: Other methods Lecture

Time: 2 x 3x50 12-13 Meeting

Lecture: Group discussion (Small Group Discussion), Study Case (Case Study), Learning cooperative (Cooperative learning)

Time: 2x3x50 14 meetings

Lecture: Other methods Lecture

Time: 3 x 50 15 meetings

Lectures: Group discussion (Small Group Discussion), Study Case (Case Study)

Time: 3 x 50 16th Meeting

Final Semester Exam

The assessment method implemented

- 1. Quiz
- 2. Case Studies
- 3. Mid Test
- 4. Final Test

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	Quiz	25.00 %	72.97
ILO 1	CLO-1	Final Test	20.00 %	67.74
ILO 1	CLO-1	Case Studies	10.00 %	64.83
ILO 1	CLO-1	Mid Test	10.00 %	78.33
ILO 1	CLO-3	Mid Test	10.00 %	78.33
P2	CLO-1	Final Test	20.00 %	67.74
P2	CLO-1	Quiz	25.00 %	72.97
P2	CLO-1	Mid Test	10.00 %	78.33
P2	CLO-1	Case Studies	10.00 %	64.83
P2	CLO-2	Final Test	20.00 %	67.74
P2	CLO-2	Mid Test	10.00 %	78.33
P2	CLO-2	Case Studies	10.00 %	82.33
P2	CLO-2	Quiz	25.00 %	72.97
P2	CLO-2	Case Studies	25.00 %	78.83
KK2	CLO-2	Mid Test	10.00 %	78.33
KK2	CLO-2	Case Studies	10.00 %	82.33
KK2	CLO-2	Quiz	25.00 %	72.97
KK2	CLO-2	Final Test	20.00 %	67.74
KK2	CLO-2	Case Studies	25.00 %	78.83
KK2	CLO-3	Mid Test	10.00 %	78.33

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 $^{\rm b}$

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

CLO	% of students who achieved a CLO score of at least 80
CLO-1	60.00%

CLO	% of students who achieved a CLO score of at least 80			
CLO-2	66.67%			
CLO-3	63.33%			

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	13 (43.3%)	
A-	7 (23.3%)	
B+	2 (6.7%)	
В	2 (6.7%)	
B-	0 (0.0%)	_
C+	2 (6.7%)	
С	0 (0.0%)	_
D	0 (0.0%)	
E	4 (13.3%)	

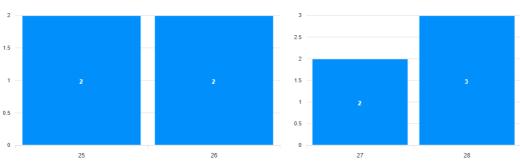
3. Learning evaluation (survey) results

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

Grafik Kuisioner Pembelajaran Matakuliah Kriptografi



Grafik Kuisioner Pembelaiaran



- 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:

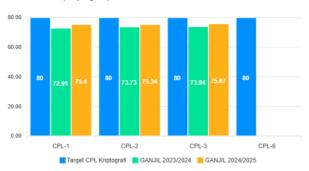
 3: Lebih Banyak
 2: Sama
 1: Lebih Sedikit
- Pertanyaan 28:
- 3 : Sama
 2 : Cukup Sesuai
 1 : Kurang Sesuai

Informasi Pertanyaan Kuisioner

- 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 dengn kontrak perkuliahan yang telah disepakati
- 10. Matakuliah yang diberikan menstimulasi kemampuan intelektual saya
- 13. Jadwal matakuliah telah diinformasikan di SIM secara jelas sebelum perkuliahan dimulai
- 16. Dosen menyelesaikan perkuliahan tepat waktu sesuai dengan jadwal kuliah yang telah ditetapkan
- 19. Selama Kualiah daring, fasilitas perkuliahan cukup memadai
- 22. Beban sks matakuliah ini sudah sesuai dengan kompetensi yang akan dicapai (Catlatan: 1 sks setara dingan 170 menit kegiatan belajar setiap pekan per semester)
 25. Rata-rata Waktu Efektif (dalam menit) yang anda habiskan dalam seminggu (di luar jam perkuliahan)untuk menyelesaikan tugas terstrukturpada matakuliah ini
 28. Alokasi waktu yang digunakan untuk menyelesaikan tugas yang diberikan
- Dosen Menjalankan Proses Pembelajaran yang berpusat pada mahasiswa (Student Centered Learning)
- Dosen memberikan materi setiap minggu sesuai dengan Rancangan Pembelajaran Semester (RPS) matakuliah
- B. Dosen memberikan umpan balik dengan memberikan komentar secara lengkap
- 11. Tingkat kehadiran saya dalam matakuliah ini sangat tinggi (lebih dari 80%
- 14. Dosen memberikan kuliah sesuai dengan jadwal kuliah yang telah ditetapka
- 17. Tersedia buku acuan/modul/ringkasan materi/slide matakuliah untuk semua mate
- 20. Saya menggunakan SIKOLA sebagai wadah pembelaiaran
- 23. Saya menggunakan SIKOLA sebagai wadah pembelajaran
- 26. Rata-rata Waktu Efektif (dalam menit) yang anda habiskan dalam seminggu (di luar

- Dosen Menyiapakan materi Pemebelajaran dan sumber daya pensukung pwmbelajaran (diktat, slide, kasus, tugas, bahan ujian, dsb.)
- 6. Dosen mempunyai kepedulian dan membantu mahasiswa dalam pemahar penguasaan suatu materi
- 9. Saya 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 ditetapk
- 18. Buku acuan/modul/ringkasan materi/slide matakuliah yang diberikan berdan uptodate dangan perkembangan yang ada
- 21. Layanan Perpustakaan Prodi/Departemen/Fakultas/Universitas sangat medalam process pembelajaran
- 24. Layanan Perpustakaan Prodi/Departemen,Universitas sangat membantur proses pembelajaran
- 27. Dibandingkan dengan matakuliah yang lainnya, jumlah waktu yang anda h

Grafik CPL MK (Kriptografi)



Hasil Pengukuran CPL MK Kriptografi

4. Analysis and Reflection

Analysis and Reflection

There has been progress compared to the previous year, but lecturers still feel the need to evaluate achievements and learning methods.

5. Follow-up Plan

In response to the results of the CPL Cryptography Course which shows a positive improvement trend but the achievements are still below the target of 80, the action plan will focus on optimizing and strengthening the achievements. The main step is to identify the concepts that are most challenging for students and then provide additional learning resources, such as advanced case studies, to encourage deeper understanding. In parallel, it is necessary to audit the assessment plan to ensure that CPL-6, for which data is currently not available, can be measured and reported effectively in the following semester. The aim of this strategy is that student achievement can consistently exceed the set targets.

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

Plan for providing Remedial for students who have not achieve the expected CPL. Apart from that, learning methods will be prepared more effective.

Makassar, 24 Oktober 2025

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