Course Description Form

1. Course Name:
Computing Security II
2. Course Code:
COMP300
3. Semester / Year:
First semester/ four year
4. Description Preparation Date:
1−2−2026
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total)
60 h/4 units
7. Course administrator's name (mention all, if more than one name)
Name: Asst. Prof. Dr. Dalal N. Hamood Email: dalal.naeem@nahrainuniv.edu.iq Asst. Lec. Ibtihal Abass Lec. Assed Hussain Asst. Lec. Mahmood
8. Course Objectives

Course Objectives	The main objective of this chapter is to introduce students to fundamental principles of data security. It focuses on clarifying k terms within data security and data encryption, and explain several encryption algorithms.

9. Teaching and Learning Strategies

Strategy	Lectures Homework Practical Lab Discussion in the class

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Data Security Principles 1. Security 2. Confidentiality 3. Integrity	Lecture	Quiz

			4. Availability 5. Authentication 6. Accountability Repudiation)		
2	2		Ceaser Algorithm Atbash Algorith	Lecture	Quiz
3	2		-Keyword Cipher Polybious ciphe	Lecture	Quiz
4	2		Additive Cipher Multiplicative Ciphers Affine Ciphers	Lecture	Quiz
5	2		Pigpen / Masonic Cipher Polyalphabetic Ciphers	Lecture	Quiz
6	2		Vigenère Cipher Gronsfeld ciphe	Lecture	Quiz
7	2		EXAM1		
8	2		Beaufort Cipher Autokey Ciphe	Lecture	Quiz
9	2		Running Key Cipher Polygraphic Ciphers	Lecture	Quiz
10	2		Playfair Cipher Hill Cipher	Lecture	Quiz
11	2		Bifid Cipher Trifid Cipher	Lecture	Quiz
12	2		* Keyed Transposition Ciphers Double Column Transposition	Lecture	Quiz
13	2		Data Encrypt Standard (DI Simplified DE	Lecture	Quiz
14	2		EXAM 2		
11. Course Evaluation					

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc	
12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	**Cryptography And Network Security Principles And Practice** Fifth Edition William Stallings 2015
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Computer Lab + Java Language