Republic of Iraq The Ministry of Higher Education and Scintific Resrearch Supervision and Scientific Evaluation Body



College: Shatt Al- Arab University

College

Department: Computer Technology

Engineering Stage: Fourth

Lecturrer Name: Athraa Qays Obaid

Academic Status: Lecturer

Qualification: Lecturrer at: Shatt Al-

Arab University College

Course Weekly Outline

Course Lecturer	Asst. Lecturer. Athraa Qays Obaid						
e-mail	athra.qais@sa-uc.edu.iq						
Title	Security of computers and networks						
Course							
Coordinator							
Course Objective	The general goal of the course is to understand the basic principles of various encryption and decryption algorithms, as well as cryptanalysis methods.						
Course	This course description provides a brief introduction to computer						
Description	and network security systems, particularly focusing on techniques for protecting information systems. Topics include security attacks, mechanisms, services, data encryption, key management and distribution, user authentication, and communication system security.						
Textbook	William Stalling," cryptography and network security principles and practice ", 6th ed., 2015, Pearson.						
References	Google Scholar (e.g., academic papers, journal articles, etc.).						
Course Assessment	Term Exam	Project	practical	Quizzes and Attendance	Final Ex	am	
1 issessificate	10	0	5	5		60	
General Notes		I	1		1		

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Week Date		Topics Covered	Number of Hours	Notes
1-3	18/9/2024	Basic concepts of encryption and decryption	6	
4	9/10/2024	Caesar cipher and the affine cipher	2	
5-6	16/10/2024	Monoalphabetic substitution ciphers	4	
7	30/10/2024	Transposition ciphers	2	
8	6/11/2024	Playfair cipher	2	
9	13/11/2024	Polyalphabetic ciphers	2	
10-13	20/11/2024	Vigenère cipher	8	
14-16	4/12/2024	Permutation cipher	6	
17	18/12/2024	Euclidean method	2	
18-19	25/12/2024	Application of encryption methods using symmetric key	4	
20-22	8/1/2025	Application of encryption methods using public key	6	
23-27	22/1/2025	 Application of sender authentication methods 	10	
28	5/2/2025	Application of email protection methods	2	
29-30	12/2/2025	 Introduction to operating system protection methods 	4	

Lecturer signature

Head of Department Signature