

Ministry of Higher Education & Scientific Research

University of Anbar

College of Computer Science  
and Information Technology

Computer Networks Systems Department



كلية علوم الحاسوب وتكنولوجيا المعلومات

وزارة التعليم العالي والبحث العلمي

جامعة الأنبار

كلية علوم الحاسوب وتكنولوجيا المعلومات

قسم أنظمة شبكات الحاسوب

## Department of Computer Networks Systems

### Course Description Form

Course Title: Network Security

Course Code:

Semester: II

Level: B.Sc.

Class: 4<sup>th</sup>

Academic Year: 2022/2021

Course Instructor: Dr. Sufyan T. Faraj Al-Janabi

Academic status: Professor

Place of work: CCS&IT, University of Anbar

Credit Hours: 2

Instructor Office Hours: Sunday & Wednesday [10 am-1pm]

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كَلِيَّةُ عُلُومِ الْحَاسِبِ وَتَكْنُولُجِيَا الْمَعْلُومَاتِ

وَزَارَةُ التَّعْلِيمِ الْعَالِيِّ وَالْبَحْثِ الْعِلْمِيِّ

جَامِعَةُ الْأَنْبَارِ

كَلِيَّةُ عُلُومِ الْحَاسِبِ وَتَكْنُولُجِيَا الْمَعْلُومَاتِ

قِسْمُ أَنْظِمَةِ شَبَكَاتِ الْحَاسِبِ

## 1. Lecture Schedule:

Weeks	Topics
Week 1	Introduction to Network Security
Week 2	Public-Key Cryptography and PKI
Week 3	RSA
Week 4	Access Control I: Authentication
Week 5	Dictionary Attacks
Week 6	Access Control II: Authorization
Week 7	CAPTCHA
Week 8	Malware: Viruses and Worms
Midterm Exam	
Week 9	Stream Ciphers
Week 10	The RC4 Cipher
Week 11	Arithmetic in $GF(2)$ and $GF(2^n)$
Week 12	The Advanced Encryption Standard
Week 13	Public-Key Cryptography for Exchanging Secret Session Keys
Week 14	Hashing for Message Authentication
Week 15	Web Security