Course Description Form

1. Course Name:
Information and Network Security
2. Course Code:
3. Semester / Year:
2nd / Master
4. Description Preparation Date:
06-02-2026
5. Available Attendance Forms:
Compulsory
6. Number of Credit Hours (Total) / Number of Units (Total)
45 Hours (Theory) / 3 Units
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Jamal M. Kadhim Email: jamal.mohammedkadhim@nahrainuniv.edu.iq
8. Course Objectives

Course Objectives	*Understanding Computer Security.* *- Understanding Cryptography* *- Understanding Access Control.* *- Understanding Network Security Protocols*

9. Teaching and Learning Strategies	
Strategy	Lectures, problem classes

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3		Introduction to ormation Security	Formal Lectures	Class Activity
2	=		Cryptography- Cry basics	=	Class Activity
3	=		Cryptography – Symme Key Crypto	=	Class Activity

4	=		Cryptography – Symme Key Crypto	=	Class Activity
5	=		Cryptography – Public Crypto	=	Class Activity
6	=		Cryptography – Public Crypto	=	Class Activity
7	=		Mid term Exam	=	
8	=		Access control Authentication	=	Class Activity
9	=		Access control Authentication	=	Class Activity
10	=		Access control Authorization	=	Class Activity
11	=		Access control Authorization	=	Class Activity
12	=		Second mid-exam	=	Class Activity
13	=		Simple Authenticat Protocols	=	Class Activity
14	=		Real World Secu Protocols	=	Class Activity

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)	▪ Information Security: principles and practice, Mark Stamp 2012
Main references (sources)	
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	