Course Description Form

1. Course Name: **Multimedia security**

2. Course Code: **CSCS 3213**

3. Semester / Year: **Second 2023-2024**

4. Description Preparation Date: **1/2/2024**

5. Available Attendance Forms: Attended lectures

6. Number of Credit Hours (Total) / Number of Units (Total)

30 Theoretical Hours

7. Course administrator's name (mention all, if more than one name)

Name: Prof. Dr. Abdulamir Abdullah Karim

Email: Abdulamir.A.Karim@uotechnology.edu.iq

8. Course Objectives

Course Objectives	
	1. Understanding the Basics of Multimedia Security.
	2. Understanding the Basics of Cryptography in Multimedia.
	3. Covering the Fundamentals of Steganography in Multimedia.
	4. Covering the Fundamentals of Watermarking in Multimedia.
	5. Covering the Fundamentals of Computer Forensic.
	6. Covering the Fundamentals of Digital Right Managements.,

9. Teaching and Learning Strategies

Strategy	
	1. Attended lectures.
	2. On line electronic lectures using Google meet.
	3. Off line lectures uploaded on youtube.

10. Course Structure

Week	Hours	Required Learning Outcome	Unit or subject name	Learning method	Evaluation method
1	2	1,7	Introduction to multimedia Security	1. Attended lectures. 2. On line electronic lectures 3. Offline lectures	1. Quiz . 2. Writhen Exam 3. Oral Exam.
1	2	5,6	Security issues related to multimedia protocols, hacking, and jaming	=	=
1	2	5,6	Multimedia Cryptography	=	=
1	2	5,6	Multimedia Cryptography Technique	=	=
1	2	5,6	Multimedia Steganpography	=	=
1	2	1,7	Categories of Steganography Based on Cover Media	=	=
1	2	5,6	Steganographic Techniques	=	=
1	2	5,6	Multimedia Watermarking	=	=
1	2	5,6	Fingerprinting	=	=
1	2	5,6	Watermark Basic Requirement	=	=
1	2	1,7	Digital Forensic	=	=
1	2	5,6	Digital Forensic Tools	=	=
1	2	5,6	Digital Right Management	=	=
1	2	5,6	Digital Right Management Tools	=	=
1	2	5,6	Privacy-Preserving Surveillance	=	=

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
1. Oral Quiz.   5 Marks
2. Daily exam.   5 Marks
3. Mid Term Exam. 15 Marks
4. Practical Exam. 15 Marks
5. Final Exam. 60 Marks

12. Learning and Teaching Resources

Required textbooks (curricular books, if any	- Written lectures uploaded on the computer science department site.

	- Off line lectures uploaded on youtube.
Main references (sources)	- CRYPTOGRAPHY AND NETWORK SECURITY PRINCIPLES AND PRACTICE ,FIFTH EDITION, William Stallings , 2011. - Information Hiding Techniques for Steganography and Digital Watermarking , Stefan Katzenbeisser and Fabien A. P. Petitcolas. - Introductory Computer Forensics, A Hands-on Practical Approach**,** Xiaodong Lin, Springer.
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	• On line electronic lectures using Google meet.