Course Description Form

• Course Name:	
Cyber security	
• Course Code:	
CSCS4222	
• Semester / Year:	
Second Semester/2023-2024	
• Description Preparation Date:	
29/3/2024	
• Available Attendance Forms:	
In classroom	
• Number of Credit Hours (Total) / Number of Units (Total)	
30 hours/3 units	
• Course administrator's name (mention all, if more than one name)	
Name: Assistant Professor Dr. Ayad Hazim Ibrahim Email: ayad.h.ibrahim@uotechnology.edu.iq	

● **Course Objectives**

Course Objectives	Give an advanced base to understand cybersecurity models Learn about methods in cyber attacks Delve into the tools and methods of cyber attacks Study of the characteristics of the information security system Analysis of data and methods of cyberspace penetrations

● **Teaching and Learning Strategies**

Strategy	-Theoretical lectures - practical laboratories – methodological books - resources (Internet) -Using modern devices to deliver the material to students using data show in addition to the smart board.

● **Course Structure**

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 theoretical	1, 4,5,7	Introduction to cyber security	Theoretical lectures	Attendance - Discussions Tests

2	2 theoretical	1, 4,5,7	Introduction to cyber security	Theoretical lectures	Attendance - Discussions Tests
3	2 theoretical	1, 4,5,7	Cyber Security Vulnerabilities and Cyber Security Safeguards	Theoretical lectures	Attendance - Discussions Tests
4	2 theoretical	1, 4,5,7	Cyber Security Vulnerabilities and Cyber Security Safeguards	Theoretical lectures	Attendance - Discussions Tests
5	2 theoretical	1, 4,5,7	Cyber security architectur and operations:	Theoretical lectures	Attendance - Discussions Tests
6	2 theoretical	1, 4,5,7	Cyber security architectu and operations:	Theoretical lectures	Attendance - Discussions Tests
7	2 theoretical	1, 4,5,7	Cybersecurity management:	Theoretical lectures	Attendance - Discussions Tests
8	2 theoretical	1, 4,5,7	Cybersecurity management:	Theoretical lectures	Attendance - Discussions Tests

9	2 theoretical	1, 4,5,7	Secure systems and produ	Theoretical lectures	Attendance - Discussions Tests
10	2 theoretical	1, 4,5,7	Secure systems and produ	Theoretical lectures	Quiz Homework Attendance Exam Project assessmen
11	2 theoretical	1, 4,5,7	intrusion Detection systems	Theoretical lectures	Attendance - Discussions Tests
12	2 theoretical	1, 4,5,7	intrusion Detection systems	Theoretical lectures	Attendance - Discussions Tests
13	2 theoretical	1, 4,5,7	intrusion Detection systems	Theoretical lectures	Attendance - Discussions Tests
14	2 theoretical	1, 4,5,7	Cyberspace and the Law	Theoretical lectures	Attendance - Discussions Tests
15	2 theoretical		Final Exam	Theoretical lectures	Exam

● 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

5 marks of attendance
5 marks Assignments and reports
  15 marks for mid-course exam (mid)
15 marks for the laboratory exam. Implementing programs for algorithms and file management
60 marks for the end-of-course exam (first semester)

● Learning and Teaching Resources

Required textbooks (curricular books, if any)	Not required
Main references (sources)	Cyber-security-essentials, James graham, Ryan Ol Richard Howard
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	