Course Description Form

1. Course Name:
Cyber security
2. Course Code:
3. Semester / Year:
second semester/ MSc
4. Description Preparation Date:
1−2−2026
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total)
30 h/2 units
7. Course administrator's name (mention all, if more than one name)
Name: Asst. Prof. Dr. Dalal N. Hamood Email: dalal.naeem@nahrainuniv.edu.iq
8. Course Objectives

Course Objectives	**This course is providing students with the knowledge and skills necess to protect systems and data from cyber threats.**

9. Teaching and Learning Strategies	
Strategy	Lectures Homework Problem-based learning Case studies

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
Week1	2		Networking an internet (infrastructure, software)	Lecture	Quiz
Week2	2		Understand the term cybercrime, hacking, Types of cybercrime	Lecture	Quiz

Week3	2		cyber security cyberspace	Lecture	Quiz
Week4	2		characteristics c cybersecurity layers of cybe security	Lecture	Quiz
Week5	2		File security Encrypt a file, folde drive. Set a passwor for files lik documents, spreadsheets, compressed files	Lecture	Quiz
Week6	2		Protection fro malware Understand how ant virus software work and its limitations. Understand that ant virus software shoul be installed o computers and devices	Lecture	Quiz
Week7	2		Network security Understand th function, limitations c a firewall in persona work environmen 3.1.5 Turn a person firewall on, off. Allov block an applicatio service/feature acces through a person firewall	Lecture	Quiz
Week8	2		Exam mid1		
Week9	2		Wireless security	Lecture	Quiz
Week10	2		Password Management Recognise goo password policies, lik adequate passwor length, adequate lette number and speci characters mix, n sharing password changing the regularly, differe passwords for differe services	Lecture	Quiz

Week11	2		Secure Browsing B aware that certai online activit (purchasing, banking should only b undertaken on secu web pages using secure networ connection.	Lecture	Quiz
Week12	2		. Secure websites	Lecture	Quiz
Week13	2		Email security (1) Understand the purpos of encryptin decrypting an e-mail	Lecture	Quiz
Week14	2		Email security (2 Understand the ter digital signature.	Lecture	Quiz
Week15	2		Exam mid2		

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, seminar .... etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	**Introduction to cyber security** 2017
Recommended books and references (scientific journals, reports…)	
Electronic References, Websites	Computer Lab + Java Language