



Course Specification

(Bachelor)

Course Title: **Cybersecurity in Finance**

Course Code: **APFT2510**

Program: **Financial Technology**

Department: **Diplomas**

College: **Applied College**

Institution: **Umm Al-Qura university**

Version: **1.0**

Last Revision Date: **2025**



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A. General information about the course:

1. Course Identification

1. Credit hours: (2)

2. Course type

- A. ☐ University ☐ College ☒ Department ☐ Track ☐ Others
- B. ☒ Required ☐ Elective

3. Level/year at which this course is offered: (2nd Level/ 1st year)

4. Course General Description:

This course provides an overview of the field of cybersecurity in FinTech. It introduces students to fundamental cybersecurity topics in finance including basic cybersecurity concepts and their application, cyber threats, types of attacks, and types of cybercrimes.

5. Pre-requirements for this course (if any):

None

6. Co-requisites for this course (if any):

None

7. Course Main Objective(s):

By the end of the course, students should be able to

1. Express knowledge of basic security concepts, techniques, and practices using terminology from the field.
2. Develop a foundation with security concepts for further study in the field of cybersecurity in FinTech.



2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	30	100%
2	E-learning		
3	Hybrid <ul style="list-style-type: none"> Traditional classroom E-learning 		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	2*15=30
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	
5.	Others (specify)	
Total		30

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Examine fundamental cybersecurity concepts and principles of cybersecurity cyber threats, types of attacks	K1, K3	Lecture	Assignments, Quizzes, Exams

2.0	Skills			
2.1	Identify common cybersecurity attacks and threats.	S1	Lecture	Assignments, Quizzes, Exams
2.2	Ability to describe the basic knowledge of information security in cybersecurity threats and the methods that used in protection.	S2	Lecture	Assignments, Quizzes, Exams
2.3	Identify the importance of physical, network, and application-level security.	S1	Lecture	Assignments, Quizzes, Exams
3.0	Values, autonomy, and responsibility			
3.1	Be an independent learner, able to acquire further knowledge with some guidance or support.	V3		

C. Course Content

No	List of Topics	Contact Hours
1.	Introduction to Cybersecurity in Finance	2
2.	Cybersecurity Concepts	4
3.	Computer and Application Security	2
4.	Cybersecurity Threats in Finance	2
5.	Cybersecurity Vulnerabilities in Finance	2
6.	Malware Types	2
7.	Mobile Security	2
8.	Network Security	2
9.	Web and Internet Security	2
10.	Encryption and Cryptography for Protecting Data and Services	2
11.	Secure Financial Market Infrastructures	4
12.	Cybersecurity Policy, Standards, and Laws in Finance	4
Total		30



D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quizzes	1-15	20%
2.	Midterm Exam	8	25%
3.	Assignments	1-15	15%
4.	Final Exam	Final week	40%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	1- Introduction to Security 10th Edition, by Robert Fischer Edward Halibozeck, David Walters
Supportive References	2- Understanding Cybersecurity Management in FinTech Hands-On Cybersecurity for Finance: Identify vulnerabilities and secure your financial services from security breaches
Electronic Materials	
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Traditional Classroom
Technology equipment (projector, smart board, software)	Multimedia Projector
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Survey at the end of the course
Effectiveness of Students assessment	Instructor	Course Report
Quality of learning resources	Instructor	Survey at the end of the course
The extent to which CLOs have been achieved	Instructor	Course Report



Assessment Areas/Issues	Assessor	Assessment Methods
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	Umm Al-Qura University Council
REFERENCE NO.	851281214463/194460
DATE	1447/01/20

