



Course Specification

(Bachelor)

Course Title: Financial Technology and Financial Transformation

Course Code: APFT1505

Program: Diploma in Fintech

Department:

College: The applied College

Institution: Umm Al-Qura University

Version: First

Last Revision Date: 8 April 2025



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A. General information about the course:

1. Course Identification

1. Credit hours: (3)

3

2. Course type

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

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

4. Course General Description:

This course introduces students to the foundational principles and practices of Financial Technology (FinTech) and its pivotal role in digital financial transformation. It explores how technologies such as blockchain, digital currencies, AI, data analytics, and smart contracts are reshaping financial services. The course also examines regulatory frameworks, ethical issues, and cybersecurity concerns. Through real-world case studies and guided workshops, students will gain both conceptual understanding and applied insight into how FinTech tools and models are used in modern financial institutions.

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

None

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

None

7. Course Main Objective(s):

Upon completion of the course, students will be able to:

1. Explain key concepts of FinTech and the digital transformation of finance.
2. Identify and describe emerging digital financial tools and infrastructure.
3. Analyze the regulatory, security, and ethical considerations in FinTech adoption.
4. Apply analytical thinking to evaluate FinTech business models and innovations.
5. Design conceptual solutions for financial challenges using digital tools.
6. Communicate findings effectively through digital and written financial reporting.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	45	100%
2	E-learning		





No	Mode of Instruction	Contact Hours	Percentage
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	45
2.	Laboratory/Studio	2 * 15 = 30
3.	Field	0
4.	Tutorial	0
5.	Others (specify)	0
Total		45

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	Identify and explain the core concepts, technologies, and evolution of FinTech and digital finance.	K1	Interactive lectures, visual aids, and guided discussions.	Exams, Participation, Group Project
1.2	Describe the major components of the FinTech ecosystem.	K2	Case-based teaching and instructor-led concept breakdowns.	Exams, Participation, Group Project
1.3	Discuss regulatory, , and ethical frameworks shaping FinTech adoption.	K3	Lectures, Seminars and analysis of current regulatory cases.	Exams, Participation, Group Project
2.0	Skills			





Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
2.1	Analyze financial innovations and digital platforms using practical tools and frameworks.	S1	Lectures, using tools like Excel, Power BI, and simulations	Exams, Participation, Group Project
2.2	Evaluate FinTech-based business models and present data-driven financial solutions..	S2	Lectures, Assignments, FinTech startup analysis.	Exams, Participation, Group Project
3.0	Values, autonomy, and responsibility			
3.1	Demonstrate ethical awareness and responsible behavior in the use of financial technologies.	V1	Discussion, Assignments	Group Discussions, Group Project
3.2	Work effectively in diverse teams to solve real-world FinTech problems.	V2	Discussion, Assignments	Group Discussions, Group Project

C. Course Content

No	List of Topics	Contact Hours
1	Introduction to FinTech: Definitions, History & Trends	3
2	Evolution of Digital Finance & Disruptive Models	6
3	Payment Gateways, E-wallets & Mobile Transactions	6
4	Smart Contracts & DeFi (Decentralized Finance)	6
5	midterm exam	3
6	Financial Data & Analytics	6
7	Regulatory and Legal Aspects of FinTech	3
8	FinTech in Banking, Insurance, and Real Estate	6
9	Crowdfunding Platforms and Financial Innovation	3
10	Business Models in FinTech	3
Total		45



D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm exam	6	25%
2.	Group Project	12	20%
3.	Individual Homework	6	5%
4.	Participation	Ongoing	5%
5.	Final Exam	TBD	45%

*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	<i>Editors: Susanne Chishti & Janos Barberis</i> <i>Publisher: Wiley</i> <i>ISBN: 978-1119218876</i>
Supportive References	
Electronic Materials	McKinsey, PwC, and World Economic Forum FinTech Reports
Other Learning Materials	Microsoft Excel / Power BI Blockchain demo platforms Online FinTech simulators

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classrooms
Technology equipment (projector, smart board, software)	Projector – Smart board – Computer



Items	Resources
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students - Faculty	Indirect
Effectiveness of Students assessment	Faculty	Indirect
Quality of learning resources	Students - Faculty	Indirect
The extent to which CLOs have been achieved	Faculty	Direct
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

