



Course Specification

(Bachelor)

Course Title: **Selected Topics in Fintech**

Course Code: **IS_1488**

Program: **Bachelor of Information Systems**

Department: **Information systems**

College: **College of Computer and Information Sciences**

Institution: **Imam Mohammad Ibn Saud Islamic University**

Version: **2**

Last Revision Date: **August 2nd, 2025**

Approved: 24/08/2025



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A. General information about the course:

1. Course Identification

1. Credit hours: 3 credit hours (lectures:3)

2. Course type

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

3. Level/year at which this course is offered: seventh semester/Fourth Year

4. Course general Description:

This course explores emerging trends and specialized topics in financial technology (FinTech), providing students with in-depth knowledge of innovative financial services, regulatory challenges, and disruptive technologies. It will cover areas such as decentralized finance (DeFi), central bank digital currencies (CBDCs), AI-driven financial services, regulatory technology (RegTech), and real-world case studies of FinTech applications. This course allows students to stay at the forefront of financial innovation, preparing them for advanced careers in digital finance and blockchain applications.

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

IS1250 - Fintech: Foundations & Applications

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

No Co-requisites

7. Course Main Objective(s):

- Introduce students to the latest trends and developments in Fintech.
- Analyze the impact of digital innovations on financial markets and institutions.
- Understand the principles and applications of DeFi, AI in finance, and CBDCs.
- Develop a critical understanding of regulatory and security concerns in Fintech.
- Explore case studies of real-world applications and emerging Fintech business models

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	3 hours/week	100%
2	E-learning		
3	Hybrid • Traditional classroom • E-learning		





No	Mode of Instruction	Contact Hours	Percentage
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	45
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	
5.	Others (specify)	
Total		45

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

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Understand emerging trends in Fintech.	K1(P)	Class Lectures, Case Studies	Quiz, Assignments
1.2	Analyze the impact of AI and blockchain on financial services.	K3(P)	Class Lectures, Discussions	Midterm Project
2.0	Skills			
2.1	Assess security, ethical, and regulatory challenges facing financial technologies and propose mitigation approaches.	S1(P), S3(I)	Class Lectures, Case Studies	Project, Final Exam
2.2	Develop conceptual understanding of DeFi and CBDCs to evaluate their role in reshaping	S2(P)	Class Lectures, Case Studies	Assignment, Quiz





Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	financial ecosystems.			
3.0	Values, autonomy, and responsibility			
3.1	Evaluate real-world FinTech solutions through group collaboration and professional communication in diverse financial domains.	V1(P), V3(I)	Class Lectures, Case Studies	Project

C. Course Content

No	List of Topics	Contact Hours
1.	Introduction to Fintech and Emerging Trends	5
2.	Decentralized Finance (DeFi)	7
3	Central Bank Digital Currencies (CBDCs)	6
4	AI and Machine Learning in Financial Services	7
5	Smart Contracts and Automated Financial Systems	5
6	RegTech: Compliance and Regulatory Challenges	5
7	Security and Ethical Considerations in Fintech	5
8	Case Studies and Future Directions	5
Total		45

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz	4,11	10%
2.	Midterm Exam	8	20%
3.	Assignment	7	10%
4	Group Project	15	20%
5	Final Exam	16	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	Fintech with Artificial Intelligence, Big Data, and Blockchain (Blockchain Technologies) 1st ed. 2021 DeFi and the Future of Finance, Campbell R. Harvey, 2021
Supportive References	N/A
Electronic Materials	Blackboard
Other Learning Materials	N/A

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	1. At least 30 seats 2. A projector connected to a PC preferably with Internet connection 3. Sliding board
Technology equipment (projector, smart board, software)	
Other equipment (depending on the nature of the specialty)	N/A

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect using course evaluation survey
Effectiveness of Students assessment	Faculty members	Direct method using TOS file
Quality of learning resources	Students and Faculty	Indirect using course evaluation survey and faculty survey
The extent to which CLOs have been achieved	Faculty members	Direct method using TOS file
Other		

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

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	IS CURRICULUM APPROVAL & DEVELOPMENT COMMITTEE IS QAC / / IS COUNCIL
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REFERENCE NO.

DATE

