

Foundations of FinTech

Prepared by Dr. Mohamed Sleem

FNT611
Foundations of FinTech

Lecture 0





مجموعة جامعة
الجميع الذكية
للتعليم القابضة



Introduction Foundations of FinTech

Lecture 0

FNT611

Foundations of FinTech

Prepared by
Dr. Mohamed Sleem

www.midocean.ae

Dr. Mohamed A. E. Sleem

Assistant Professor, Finance & MIS

Post-Doctoral Program (PGCert/HE): Education

Greenwich University, UK - Greenwich University, UK

Ph.D. in Finance

School of Management, USM – Malaysia

Master of Science: Information Technology

School of Computer Science, Nottingham University- UK

Diploma in E-Commerce

ITI “Information Technology Institute”, Cairo, Egypt.

Bachelor of Science: Business Administration

Ain Shams University- Cairo, Egypt

Agenda

I. Introduction

- a. Welcome & Overview
- b. Brief on the Fundamentals of FinTech

II. Chapter Overviews

- a. **Chapter 1: Introduction to FinTech and the Digital Economy**- Briefing on Core Concepts and Components - Significance in the Modern Financial Ecosystem
- b. **Chapter 2: Cloud and Edge Computing & Big Data and Artificial Intelligence** - Overview of Technological Foundations - Relevance to FinTech Solutions
- c. **Chapter 3: FinTech Innovations and Trends** - Exploration of Current Innovations - Discussion on Prevailing Trends
- d. **Chapter 4: FinTech Solutions**
- e. **Chapter 5: Blockchain and Cryptocurrencies** - Introduction to Blockchain Technology - Impact of Cryptocurrencies on Finance

Agenda (2)

- **e. Chapter 6: FinTech in Banking** - Overview of FinTech Applications in Banking - Transformative Impact on Traditional Practices
- **f. Chapter 7: Fintech in Payment and Lending** - Exploration of Revolutionary Payment Systems - Insights into Lending Processes
- **g. Chapter 8: Fintech in other financial services**
- **h. Chapter 9: Fintech in Other Regulatory Services** - Discussion on Regulatory Aspects - Navigation of Regulatory Requirements
- **i. Chapter 10: The Future of FinTech** - Conceptualization of Potential Future Developments - Evolving Trends and Market Demands

III. Closing Remarks

Course Description

- The "Foundations of FinTech" course provides master-level students with a comprehensive overview of the revolutionary field of Financial Technology (FinTech).
- This course serves as a gateway to understanding the intricate nexus between finance and technology, exploring core concepts, prevailing trends, and innovative solutions within the sector.
- The curriculum delves into foundational aspects of FinTech, cloud and edge computing, big data, artificial intelligence, blockchain, and cryptocurrencies, offering insights into the transformative impact of these technologies on financial services, including banking, payments, lending, and regulatory services.

Course Description (2)

- In this course, students will not only acquire foundational knowledge of FinTech but also explore its practical implications and regulatory considerations.
- The modular structure of the course allows for an integrative learning experience, enabling students to connect knowledge across diverse topics and envision the future developments of FinTech.
- Through engaging lectures, discussions, and case studies, students will gain a holistic understanding of FinTech's multifaceted nature and its pivotal role in shaping the financial landscape of the future.

Introduction to FinTech and the Digital Economy

- FinTech, or Financial Technology, embodies the fusion of modern technology into financial services, revolutionizing traditional banking and financial activities such as payments, lending, and investing.
- Broader digital economy encompasses a range of sectors impacted by digitalization, from e-commerce and digital advertising to on-demand services.

Cloud and Edge Computing & Big Data and Artificial Intelligence

Cloud and Edge Computing

- Cloud computing delivers computing resources over the internet, offering scalability and remote access, while edge computing processes data closer to its source, reducing latency and enhancing real-time applications.

Big Data and Artificial Intelligence

- Big Data encompasses massive datasets too large for traditional computing, yet rich in insights about patterns and behaviors.
- Artificial Intelligence, leveraging these vast data sources, performs tasks mimicking human intelligence.



FinTech Innovations and Trends

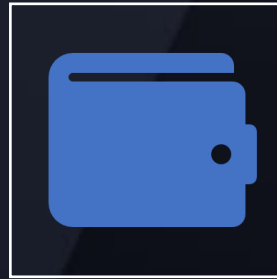
FinTech, standing at the crossroads of finance and technology, has been a catalyst for transformative shifts in the financial landscape.

- Decentralized finance (DeFi),
- Blockchain.
- Digital banking platforms and neobanks.
- Robo-advisors..

FinTech Solutions



FinTech solutions are revolutionizing the way individuals and businesses approach finance.



Digital wallets and peer-to-peer payment platforms.



Online lending platforms.

Blockchain and Cryptocurrencies

- Blockchain is a decentralized ledger technology that ensures transparency and security by recording transactions across multiple computers in a way that makes them tamper-evident.
- Cryptocurrencies are digital or virtual currencies that utilize cryptography for security and operate independently of a central bank.

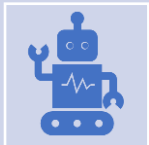
FinTech in Banking



FinTech, or Financial Technology, has significantly reshaped the banking sector, introducing a range of innovations designed to enhance customer experiences, streamline operations, and open new avenues of business.



Digital-only banks or "neobanks".



Mobile banking apps, digital payment solutions, and AI-driven chatbots.



Fintech in payment and lending

Digital wallets, peer-to-peer transfer apps, and contactless payment solutions are on the rise, providing users with swift, secure, and convenient means to conduct transactions.

Fintech In Other Financial Services

- The chapter on "Fintech in Other Financial Services" provides a comprehensive overview of Fintech's multifaceted applications across diverse sectors, such as Insurance and Investment Management. It sheds light on the transformative innovations within these sectors, exploring the incorporation of digital technologies like AI and blockchain to enhance services, assess risks, and manage assets.
- The chapter not only focuses on the practical implications and advancements in these sectors but also facilitates discussions on real-world impact and future trends. This enables students to gain an integrative insight into how Fintech is molding the financial ecosystem, fostering a deeper understanding of its potential in revolutionizing various dimensions of financial services.

Fintech in other regulatory services

- FinTech's influence extends into the sphere of regulatory services, leading to the emergence of a new domain termed "RegTech" or Regulatory Technology.
- RegTech focuses on leveraging technological advancements to aid financial institutions in complying with regulations more efficiently and at a lower cost.

Fintech in other regulatory services

- FinTech's influence extends into the sphere of regulatory services, leading to the emergence of a new domain termed "RegTech" or Regulatory Technology.
- RegTech focuses on leveraging technological advancements to aid financial institutions in complying with regulations more efficiently and at a lower cost.

The Future of FinTech

- The future of FinTech is poised for even more transformative changes, blending technology and finance in novel ways that address both contemporary challenges and evolving consumer expectations. Decentralized finance (DeFi) is set to further disrupt traditional financial systems, offering peer-to-peer financial solutions without the need for intermediaries.
- This move towards decentralization, combined with the potential mainstream adoption of cryptocurrencies, could redefine how global monetary systems operate.

Closing Remarks

- a. Integration of Knowledge Across Chapters
- b. Encouragement for Active Participation and Discussion
- c. Overview of Next Sessions and Expectations



مجموعة جامعة
الجميع الذكية
للتعليم القابضة

MIDOCEAN
UNIVERSITY
BY EVERYONE'S SMART UNIVERSITY



Thank You

