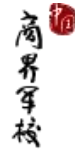




**PHBS**  
北京大学汇丰商学院



# Course Code

## Introduction to Fintech

### Module 3, Academic Year 2022-2023

#### Course Information

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***Instructor: Yan Shen***

Office: PHBS Building, Room 728

Phone: 86-755-2603-3084

Email: yshen@phbs.pku.edu.cn

Office Hour: Monday 10:30-12:30pm, Thursday 10:30am-12:30pm

***Teaching Assistant: Calvin Roesli***

Phone: 150 - 1377 - 6250

Email: calvin.roesli@stu.pku.edu.cn

***Classes:***

Lectures: Monday & Thursday 8:30-10:20

Venue: PHBS Building, Room 319/320

***Course Website:***

N/A

## 1. Course Description

### 1.1 Context

Course overview:

Fintech creates a proliferation of new applications delivering financial services, and has generated far-reaching impacts to business models, financial systems, economic systems and the society. Whether it is true revolution or a tech bubble like the dotcom bubble is also under hot

debate. This course aims to provide an introduction to the fintech industry. This course will first introduce the main business models after introducing fintech fundamentals (how blockchain technology, cloud computing, 5G, AI, Big data analytics), including the payment technology, the lending technology, the wealth technology, the insurance technology, and digital currency. Technologies related to regulations, cybersecurity and data governance are then discussed. Impacts and future prospects of fintech will then be presented from three perspectives: the China and the global prospects, the impacts on financial and economic systems, and how finance professionals should prepare for the fintech era.

Prerequisites:

None.

## ***1.2 Textbooks and Reading Materials***

There are no textbooks, the list of reference books is at the miscellaneous section of the syllabus.

## **2. Learning Outcomes**

### ***2.1 Intended Learning Outcomes***

<b>Learning Goals</b>	<b>Objectives</b>	<b>Assessment (YES with details or NO)</b>
1. Our graduates will be effective communicators.	1.1. Our students will produce quality business and research-oriented documents.	YES, through research projects.
	1.2. Students are able to professionally present their ideas and also logically explain and defend their argument.	YES, through presentations.
2. Our graduates will be skilled in teamwork and leadership.	2.1. Students will be able to lead and participate in group for projects, discussion, and presentation.	YES, through class participation.
	2.2. Students will be able to apply leadership theories and related skills.	YES, through group projects.
3. Our graduates will be trained in ethics.	3.1. In a case setting, students will use appropriate techniques to analyze business problems and identify the ethical aspects, provide a solution and defend it.	YES, through studying empirical applications.
	3.2. Our students will practice ethics in the duration of the program.	No
4. Our graduates will	4.1. Students will have an international	YES, through

have a global perspective.	exposure.	lecturing
5. Our graduates will be skilled in problem-solving and critical thinking.	5.1. Our students will have a good understanding of fundamental theories in their fields.	Yes, through lecturing, discussions and presentations
	5.2. Our students will be prepared to face problems in various business settings and find solutions.	No.
	5.3. Our students will demonstrate competency in critical thinking.	Yes, through lecturing, discussions and presentations

## ***2.2 Course specific objectives***

Students will work together to read and discuss the latest topics on Fintech during this course. After taking this course, students are expected to obtain a bird-eye view of the necessary knowledge and skills if one wishes to work as a finance professional in the Fintech industry. To be more specific, students shall obtain a clear view on (1) the fundamental technologies related to a specific fintech business model; (2) the main types of new business models in fintech; (3) the practices in regulations of the industry, cybersecurity, and data governance; (4) the impacts and prospects of fintech, and (5) qualifications needed as a finance professional working in the fintech industry.

## ***2.3 Assessment/Grading Details***

The grading formula for the course is class participation (10%), homework (20%), midterm (30%), and final project (40%). Class participation is evaluated based on attendance (5%) and responses in class (5%). There will be two homework assignments, each counted 10%. Students are expected to provide two book reviews on the provided reading list, or new books that the students introduce to the class. Midterm will be open book. Final project is composed of presentations of the research proposal (10%), and the final project paper (30%).

**Research Project is due on May 7th, 2023.**

## ***2.4 Academic Honesty and Plagiarism***

It is important for a student's effort and credit to be recognized through class assessment. Credits earned for a student work due to efforts done by others are clearly unfair. Deliberate dishonesty is considered academic misconducts, which include plagiarism; cheating on assignments or examinations; engaging in unauthorized collaboration on academic work; taking, acquiring, or using test materials without faculty permission; submitting false or incomplete records of academic achievement; acting alone or in cooperation with another to falsify

records or to obtain dishonestly grades, honors, awards, or professional endorsement; or altering, forging, or misusing a University academic record; or fabricating or falsifying of data, research procedures, or data analysis.

All assessments are subject to academic misconduct check. Misconduct check may include reproducing the assessment, providing a copy to another member of faculty, and/or communicate a copy of this assignment to the PHBS Discipline Committee. A suspected plagiarized document/assignment submitted to a plagiarism checking service may be kept in its database for future reference purpose.

Where violation is suspected, penalties will be implemented. The penalties for academic misconduct may include deduction of honour points, a mark of zero on the assessment, a fail grade for the whole course, and reference of the matter to the Peking University Registrar.

For more information of plagiarism, please refer to *PHBS Student Handbook*.

### 3. Topics, Teaching and Assessment Schedule

Week	Topic	Class	Date	Topic
1	Why fintech	1	02/20	Introduction to the course: Fintech Fundamentals
	Paytech	2	02/23	The Paytech: digital payment
2	Lending tech	3	02/27	Peer-to-Peer Lending
		4	03/02	BigTech Lending
3		5	03/06	Digital Transformation of Commercial Banks
	Wealthtech	6	03/09	Wealthtech I: Digital Wealth Management
4		7	03/13	Wealthtech II: Digital Wealth Management
	Midterm	8	03/16	<b>Midterm (open book)</b>
5	Insurtech	9	03/20	Insurtech: Digital Insurance
	Digital	10	03/23	Digital Currency I: The Bitcoin and beyond
6	Currency	11	03/27	Digital Currency II: Stable coins and CBDC
	Regtech	12	03/30	Fintech, Regtech and Suptech
7		13	04/03	Data Governance and Cybersecurity Management in Fintech
	Impacts	14	04/06	Fintech: The China and Global Perspective
8		15	04/10	Fintech: Impacts on finance and economic systems
		16	04/13	Fintech: Impacts on Finance Professionals
9	Presentations	17	04/17	Presentation I
		18	04/20	Presentation II

## Miscellaneous

### THE reference books:

#### Week 1 and Week 6:

1. Len Mei, "Fintech Fundamentals: Big Data, Cloud Computing, Digital Economy", 2022, Mercury Learning and Information.
2. Ravi Sarathy, "Enterprise Strategy for Blockchain: Lessons in Disruption from Fintech, Supply Chains, and Consumer Industries", 2022, MIT Press.
3. Sandeep Kautish and Guneet Kaur, "Ai-enabled Agile Internet of Things for Sustainable Fintech Ecosystems", 2022, IGI Global.
4. Zvi Wiener, Alexander Lipton, David Gershon, Mathieu Rosenbaum, "Options: 45 Years Since the Publication of the Black-Scholes-Merton Model", The Gershon.
5. Jun Xu, "Future and Fintech: The Abcdi and Beyond", 2022, World Scientific Publishing Company.
6. Susanne Chishti (editor), Tony Craddock (editor), Robert Courtneidge (editor), Markos Zachariadis (editor), "The PAYTECH Book: The Payment Technology Handbook for Investors, Entrepreneurs, and FinTech".

#### Week 2 and Week 3:

7. Alessandra Tanda and Cristiana-Maria Schena, "FinTech, BigTech and Banks: Digitalisation and Its Impact on Banking Business Models", Sprin.
8. Bernardo Nicoletti, "Banking 5.0: How Fintech Will Change Traditional Banks in the 'New Normal' Post Pandemic", 2021, Palgrave Macmillan.

#### Week 4:

9. Patrick Schueffel, "WealthTech: Wealth and Asset Management in the FinTech Age", 2019, Information Age Publishing.

#### Week 5:

10. Pierpaolo Marano, Kyriaki Noussia, "InsurTech: A Legal and Regulatory View", 2020, Springer International Publishing
11. Sabine L.B VanderLinden, ShÅ¼n M. Millie, Nicole Anderson, Susanne Chishti, The INSURTECH Book: The Insurance Technology Handbook for Investors, Entrepreneurs and FinTech Visionaries, 2018, Wiley.

#### Week 6:

12. Richard Turrin, "Cashless: China's Digital Currency Revolution", Authority Publishing, 2021.
13. Loh, Marvin;Swammy, Sarah;Thompson, Richard, Crypto uncovered: the evolution of Bitcoin and the crypto currency marketplace,Palgrave Macmillan, 2019
14. P. Carl Mullan , "A History of Digital Currency in the United States: New Technology in an Unregulated Market", Palgrave Macmillan US, 2016
15. Editor, Digital currency : breakthroughs in research and practice, 2019.
16. Maurizio Pompella (editor), Roman Matousek (editor), "The Palgrave Handbook of FinTech and Blockchain", 2021, Palgrave Macmillan.

#### Week 7:

17. Mark Fenwick, Steven Van Uytsel, Bi Ying, "Regulating FinTech in Asia: Global Context, Local Perspectives", 2020, Springer Singapore.

18. Iustina Alina Boitan, Kamilla Marchewka-Bartkowiak, "Fostering Innovation and Competitiveness with FinTech, RegTech, and SupTech", 2020, IGI Global.

Week 8:

19. Gurdip Kaur, Ziba Habibi Lashkari, Arash Habibi Lashkari, "Understanding Cybersecurity Management in FinTech: Challenges, Strategies, and Trends", 2021, Springer.
20. David Dollar and Yiping Huang, "The Digital Revolution in China", May 2022, Brookings.
21. Robin Hui Huang, "Fintech Regulation in China: Principles, Policies and Practices", 2021, Cambridge University Press.
22. David L. Shrier, Alex Pentland, "Global Fintech: Financial Innovation in the Connected World", 2022, The MIT Press.
23. ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT, "STRENGTHENING MACROPRUDENTIAL POLICIES IN EMERGING ASIA: adapting to green goals and fintech", 2021, ORGANIZATION FOR ECONOMIC.
24. Imad A. Moosa, "Fintech: A Revolution or a Transitory Hype", 2022, Edward Elgar Publishing.
25. Marion Laboure and Nicolas Deffrennes, "Democratizing Finance: The Radical Promise of Fintech", 2022, HarvardUP.

General Reading:

26. Agustín Rubini, "Fintech Founders: Inspiring Tales from the Entrepreneurs that are Changing Finance", 2019, De Gruyter.
27. John JA Burke, "Financial Services in the Twenty-First Century: The Present System and Future Developments in Fintech and Financial Innovation", 2021, Palgrave Macmillan.
28. Niels Pedersen, "Financial Technology: Case Studies in Fintech Innovation", 2020, Kogan Page.
29. Steven O'Hanlon, Susanne Chishti, Brendan Bradley, James Jockle, Dawn Patrick, "FinTech for Dummies".
30. David Kuo Chuen Lee, Joseph Lim, Kok Fai Phoon, Yu Wang, "Fintech for Finance Professionals", 2021, World Scientific Publishing.