# Hong Kong University of Science and Technology Department of Economics

## ECON 5040 (L2): Economics of Financial Technology 2022-23 Fall

<u>Instructor:</u> C.Y. (Eric) Ng <u>Dates</u>: 27 Oct – 15 Dec

Email: <u>ecyng@ust.hk</u> Office: LSK 6016D <u>Lecture:</u> Thu 6:30PM – 9:50PM

Zoom Personal Meeting ID: 630 678 8279 Room: LSK 1014

**Teaching Assistant:** 

Email: Office: Course website: <a href="https://canvas.ust.hk">https://canvas.ust.hk</a>

### Description

This course applies economic concepts to analyze the implications of FinTech on the economy. It addresses demand and supply drivers of FinTech, economic incentives and determinants of FinTech formation, implications of FinTech on financial sector, central banking, financial stability and monetary policy. The aim is to highlight the importance of formulating appropriate policies to foster healthy development of the FinTech sector and at the same time ensure the financial stability of the economy.

#### **Prerequisite**

Introductory concepts on microeconomics and regression analysis are expected.

#### **Assessments**

Group Project: Report*	40%	Analysis on a specific FinTech sector analysis
Group Project: Presentation*	20%	In-class presentation on Dec 8
Online Quiz	40%	In-class quiz on Dec 15

<sup>\*</sup>Please form a group of 6 members. The actual group size depends on the final enrollment number. <u>Please email your group information (names and student numbers) to me by Nov 3</u>. To prevent free-rider issue, we may conduct peer evaluation to assess individual contribution to the group.

## **Course Intended Learning Outcomes**

Upon successful completion of this course, students will be able to:

- 1. Use economic concepts to analyze the reasons for the rises of FinTech. (PILG 1, 4)
- 2. Explain implications of FinTech on the financial sector and the rest of the economy. (PILG 1, 4)
- 3. Identify potential benefits and risks of FinTech for financial stability. (PILG 1, 4)
- 4. Address implications of FinTech on central banking and monetary policy. (PILG 1, 4)

## **Teaching Approach**

This course is mainly delivered through online lectures and discussion.

Teaching & Learning Activities	Roles in the Course	Course Learning Outcomes Addressed
Lecture	Explain key concepts and models to students.	1, 2, 3, 4
Class discussion	Learn to develop critical thinking in analyzing Fintech questions.	1, 2, 3, 4
Group project with presentation	Learn to apply concepts to analyze real world issues and present case-study analysis.	1, 2, 3, 4

## **Course Outline**

- 1. Introduction to FinTech (Week 1)
  - Types of FinTech
  - Reasons for the Rises of FinTech
- 2. Determinants of FinTech (Weeks 1-3)
  - Supply and Demand Analysis of FinTech
  - Economics of Crowdfunding
  - Economic and Technological Determinants
- 3. Economic and Financial Implications of FinTech (Weeks 3-4)
  - Impacts on Household Saving
  - Impacts on Financial Services Industry
  - Monetary Policy Implications
- 4. FinTech and Financial Stability (Weeks 4-5)
  - Potential Benefits and Risks for Financial Stability
  - Policy Implications for Financial Stability
- 5. Macroeconomic and Financial Stability Implications of Virtual Currencies (Week 6)
  - Implications of Virtual Currencies
  - Central Bank Digital Currencies

#### **Teaching Materials**

Lecture notes and selected references are downloadable from the course's CANVAS website (<a href="https://canvas.ust.hk">https://canvas.ust.hk</a>). The content of the course draws on various sources, including books, academic articles, and policy papers.

#### References

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#### **Academic Policy**

Dishonesty or plagiarism will not be tolerated. Any student violating HKUST Academic Integrity and Honor Code (<a href="http://www.ust.hk/vpaao/integrity">http://www.ust.hk/vpaao/integrity</a>) will be subjected to disciplinary procedure.