

National Tsing Hua University
College of Technology Management
Course Syllabus

| | | | | | |
|---|---|--------------|---|-----------------------|-------------------------------|
| 科號 Course Number | 10710QF321700 | 學分 Credit | 3 | 人數限制 Size of Limit | 40 |
| 中文名稱 Course Title | 當代金融發展與數位金融 (英文授課) | | | | |
| 英文名稱 Course English Title | Modern Finance & Digital Banking (英文授課) | | | | |
| 任課教師 Instructor | 許智強 | | | | |
| 教師聯絡方式 Contact Information | khsu58@hotmail.com ; 0937999854 | | | | |
| 上課時間 Time | 星期四 R3R4RN | 上課教室 Room | | | |
| 先修科目 Prerequisite(s) | 財務管理(Financial Management) | | | | |
| 本課程對應之學習目標與核心能力 Aligned Learning Goals and Learning Objectives | | | | | |
| 此科目對應之系所課程規畫所欲培養之核心能力 Core capability to be cultivated by this course | | | | | 權重 (百分 Percentage) |
| 以堅實理論為基礎，理解財金體系運作機制，應用財金分析技術，實際解決財金問題。 To understand the mechanism of the finance system through solid theoretical foundation and to apply quantitative financial analysis to solve real-world financial issues. | | | | | 30% |
| 具備厚實財金基礎知識，包括財務管理與公司理財、衍生性商品訂價與風險管理 To learn the knowledge of financial management, corporate finance, financial derivatives, and risk management. | | | | | 30% |
| 具備創新管理，開發新領域的能力 To acquire the ability to innovate, integrate, and develop new research areas. | | | | | |
| 培養跨領域工作的能力 To develop the ability to work across different disciplines. | | | | | 20% |
| 具備團隊合作的精神，有效溝通的能力，以及人文素養與國際觀。 To develop teamwork spirit, to acquire the ability to communicate effectively, and to have broad knowledge across humanities, social science and natural science with international perspective. | | | | | 20% |
| 課程目標 Course Objectives | | | | | |
| <p>The financial industry has been moving into digital world in full force after internet disruption in 2000s. Nowadays, digital banking and financial technology sector is booming, and entrepreneurs, bankers, consultants, investors and asset managers are scrambling for more information: Who are the key players? What's driving the explosive growth? What are the risks?</p> <p>This course will look at fundamentals of modern financial markets and financial institutions first. We will explore the reasons behind 2008 financial crisis and other fundamental issues with current global banking problems. Financial Technology, such as Blockchain, Crowd funding, P2P Finance were created to solve some of problems of</p> | | | | | |

National Tsing Hua University
College of Technology Management
Course Syllabus

global banking system from outside. Incumbent financial institutions are also aggressive to adopt some disruptive FinTech such as mobile payments, blockchain technology from inside to fend off those threats from non-financial sector. This course will try to address all banking needs of consumers and corporation and related matching Fintech developments on the market.

課程說明 Course Description

This course focuses on the challenges and opportunities associated with financial professionals under fast-changing technology development. This course is intended to be a challenging business analysis course for the senior undergraduate students major in financial management and MBA students. Students will gain a general overview of the digital finance, blockchain & Fintech and business aspects of their applications. Students will be challenged to integrate knowledge they have gained from other financial management courses and apply their accumulated knowledge to business trend analysis and business case studies. Students will engage in case study and face-to-face discussions with business executives related to technology adoption in the financial institutions and will frequently be asked to conduct group discussion and present their findings to the class. Students will be expected to practice their critical thinking skills to be an effective leader in the coming career life.

指定用書 Textbook

1. 'Financial Markets and Institutions', by Frederic S. Mishkin and Stanley G. Eakins
2. 'Fintech Innovation', by Paolo Sironi
3. 'Bank 3.0', by Brett King

參考書籍 References

1. 'Mastering Bitcoin', by Andreas M. Antonopoulos
2. 'Blockchain: Blueprint for New Economy', by Melanie Swan
3. "迎戰金融數位新時代", 洪國超/策畫、陳鼎文撰文, 財團法人台灣金融研訓院'

教學方式 Teaching Approach

- Lecture
- Student Individual/Group Presentation
- Speakers from Fintech/Banking Industry
- Role playing and Case Discussions

評分標準 Grading

- 20% Class Participation
- 20% Quiz
- 30% Panel Discussions

National Tsing Hua University
College of Technology Management
Course Syllabus

- 30% Final Report

教學進度 Course Schedule

Week 1: Introduction

Week 2: Fundamentals of Financial Market and Financial Institutions

Week 3: Banking Industry, Regulation and Risk Management

Week 4: Evaluation of Financial Institutions & Bank 3.0

Week 5: Financial Crisis and Threats to Financial Institutions

Week 6: FinTech Industry Landscape: How to deal with "Trust" issues

Week 7: Bitcoin and Cryptocurrency

Week 8: P2P Finance and Crowd Funding

Week 9: Digital Banking and Mobile Payment

Week 10: Guest Speaker: Blockchain in Banking Industry

Week 11: Blockchain Technology and Distributed Ledgers

Week 12: Blockchain 2.0 and Beyond

Week 13: Robo Advisors and other FinTech in non-banking sectors

Week 14: Global Investments in FinTech

Week 15: Guest Speaker: Digital Finance in Taiwan

Week 16: Financial Inclusion in Emerging Market

Week 17: Final Presentation

課程相關連接 Course Related Links