Financial technology, also known as fintech, is an economic industry composed of companies that use technology to make financial services more efficient. Financial technology companies are generally startups trying to disintermediate incumbent financial systems and challenge traditional corporations that are less reliant on software.

This course aims to give an insight in the financial technology revolution, and the disruption, innovation and opportunity therein. We will see the global fintech investment space, this course will aggregate diverse industry expertise into a single informative course to provide students with the answers they need to capitalize on this lucrative market. Key industry developments are explained in detail, and critical insights from cutting-edge practitioners offer first-hand information and lessons learned.

The 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? This course collates insights, knowledge and guidance from industry experts to provide the answers to these questions and more.

- Get up to speed on the latest industry developments
- Grasp the market dynamics of the 'fintech revolution'
- Realize the sector's potential and impact on related industries
- Gain expert insight on investment and entrepreneurial opportunities
- Learn about the modeling skills and emerging technologies

The fintech market captured over US$12 billion investments since 2015, a three-fold increase from the previous year. New startups are popping up at an increasing pace, and large banks and insurance companies are being pushed toward increasing digital operations in order to survive. Goldman Sachs estimates that Fintech startups could be taking up to $4.7 trillion in yearly income and $470 billion in profits alone from bigger service companies in the financial industry.
Learning Objectives

1. Introduction to fintech

2. FinTech – Breaking the financial services value chain.
   1. Payments
   2. Deposits and Lending
   3. Capital Raising
   4. Investment Management
   5. Market Provisioning
   6. Insurance

3. FinTech Hubs

4. The history of fintech

5. Technology: Blockchain, wearables and other emerging technologies

6. Financial modeling and Fintech: Big Data 102 and Artificial Intelligence 102

7. FinTech Solutions
   - Robo-Advisors
   - Rewiring the Deal – The Path Forward for B2B Supply Chains
   - Payments and Point of Sales (POS) Innovation
   - Predictive Algorithms – Building Innovative Online Banking Solutions
   - Big Data is the Cornerstone of Regulatory Compliance Systems
   - FinTech Solutions in Complex Contracts Optimization
   - Behavioural Biometrics – A New Era of Security
   - Ultra-Fast Text Analytics in Trading Strategies
   - Regulated Crowdfunding Ecosystems
   - Remittances – International FX Payments at Low Cost
   - Payment Solutions Including Apple Pay
   - FinTech Innovation for Wearables
8. The future of Fintech and the ten times better rule

- Using emerging technologies
- The future of financial services
- Innovation through big data
- The API economy
- The 10 times better rule

Course Grading

- Homework: 25%
- Final Exam: 35%
- Fin tech project: 40%

Instructor: Miquel Noguer i Alonso PhD

Duration: 10 sessions in the form of lectures, guest speakers and class discussions.

Textbook

No textbook but recommended readings