

IB3M1-15 Fintech

23/24

Department

Warwick Business School

Level

Undergraduate Level 3

Module leader

Ruslan Sverchkov

Credit value

15

Module duration

10 weeks

Assessment

Multiple

Study location

University of Warwick main campus, Coventry

Description

Introductory description

This is an elective module available for WBS and non-WBS students.

The course covers the intersection of finance and technology. Its main aim is to provide a sound foundation across the spectrum of financial concepts driving innovations of the principal intermediation functions (money, payments, capital raising, market aggregation, price discovery, mass distribution) with examples of business models and products (neobanks, robo-advisors, crypto exchanges etc). It will facilitate better understanding of the value propositions, best practices, regulation and technology encountered in fintech start-ups and help structure thinking about new business and partnership opportunities from traditional financial institutional and venture funding perspective.

[Module web page](#)

Module aims

The course covers the intersection of finance and technology. Its main aim is to provide a sound foundation across the spectrum of financial concepts driving innovations of the principal intermediation functions (money, payments, capital raising, market aggregation, price discovery, mass distribution) with examples of business models and products (neobanks, robo-advisors, crypto exchanges etc). It will facilitate better understanding of the value propositions, best

practices, regulation and technology encountered in fintech start-ups and help structure thinking about new business and partnership opportunities from traditional financial institutional and venture funding perspective.

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

- Introduction to FinTech
- Blockchain and basics of cryptography
- Bitcoin and other digital currencies
- Crypto assets and blockchain applications
- Central bank digital currencies
- Fundamentals of artificial intelligence
- Market place lending
- Quantitative trading, machine learning in trading
- Regulatory landscape of FinTech

Learning outcomes

By the end of the module, students should be able to:

- Understand how Fintech can transform financial services
- Differentiate traditional assets and crypto-assets
- Manage innovation in retail and B2B markets
- Understand the role of Fintech in retail and B2B market
- Apply the Fintech concepts introduced in this module in new start-ups
- Integrate traditional financial services with Fintech

Indicative reading list

There are very few textbooks written specifically about FinTech due to being a relatively new topic.

- Chishti, S., & Barberis, J. (2016). *The FinTech book: the financial technology handbook for investors, entrepreneurs and visionaries*. John Wiley & Sons.
- Ferguson, Niall. *The ascent of money: A financial history of the world*. Penguin, 2008.
- Popper, Nathaniel. *Digital gold: The untold story of Bitcoin*. Penguin UK, 2015.
- Gerard, David. *Attack of the 50 foot blockchain: Bitcoin, blockchain, Ethereum & smart contracts*. David Gerard, 2017.
- Sironi, Paolo. *FinTech innovation: from robo-advisors to goal based investing and gamification*. John Wiley & Sons, 2016.

Subject specific skills

Work with Fintech data and algorithms.

Understand the technology (e.g., Blockchain) within Fintech start-ups.

See the link between the value chains and wider financial networks.

Transferable skills

Develop written and verbal communication and numeracy skills in the formal assessment for the module.

Study

Study time

Type	Required
Lectures	10 sessions of 1 hour (13%)
Seminars	9 sessions of 1 hour (12%)
Online learning (independent)	10 sessions of 1 hour (13%)
Private study	48 hours (62%)
Total	77 hours

Private study description

Private study.

Costs

No further costs have been identified for this module.

Assessment

You do not need to pass all assessment components to pass the module.

Assessment group D2

	Weighting	Study time
Participation	10%	8 hours
Online Examination	90%	65 hours
Exam		
~Platforms - AEP		

- Online examination: No Answerbook required

Assessment group R2

	Weighting	Study time
Online Examination Exam	100%	
~Platforms - AEP		

- Online examination: No Answerbook required

Feedback on assessment

Feedback provided via my.wbs.

[Past exam papers for IB3M1](#)

Availability

Pre-requisites

To take this module, you must have passed:

- Any of
 - [IB235-15 Finance 1: Financial Markets](#)
 - [IB266-15 Fundamentals of Finance](#)
 - [IB253-15 Principles of Finance 1](#)

Courses

This module is Optional for:

- UPHA-L1CA Undergraduate Economics, Psychology and Philosophy
 - Year 3 of L1CA Economics, Psychology and Philosophy
 - Year 3 of L1CC Economics, Psychology and Philosophy (Behavioural Economics Pathway)
 - Year 3 of L1CD Economics, Psychology and Philosophy (Economics with Philosophy Pathway)
 - Year 3 of L1CE Economics, Psychology and Philosophy (Philosophy and Psychology Pathway)
- UPHA-L1CB Undergraduate Economics, Psychology and Philosophy (with Intercalated Year)
 - Year 4 of L1CG Economics, Psychology and Philosophy (Behavioural Economics

Pathway) (with Intercalated Year)

- Year 4 of L1CH Economics, Psychology and Philosophy (Economics with Philosophy Pathway) (with Intercalated Year)
- Year 4 of L1CJ Economics, Psychology and Philosophy (Philosophy and Psychology Pathway) (with Intercalated Year)
- Year 4 of L1CB Economics, Psychology and Philosophy (with Intercalated Year)
- Year 4 of L1CB Economics, Psychology and Philosophy (with Intercalated Year)

This module is Unusual option for:

- UPHA-L1CA Undergraduate Economics, Psychology and Philosophy
 - Year 2 of L1CA Economics, Psychology and Philosophy
 - Year 3 of L1CA Economics, Psychology and Philosophy