

Module code: MOD010696	Version: 3 Date Amended: 15/Sep/2025
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1. Module Title
Fintech Revolution: Shaping Sustainable Financial Markets

2a. Module Leader
Sibel Beadle

2b. School
School of Economics, Finance and Law

2c. Faculty
Faculty of Business and Law

3a. Level
7

3b. Module Type
Standard (fine graded)

4a. Credits
30

4b. Study Hours
300

5. Restrictions			
Type	Module Code	Module Name	Condition
Pre-requisites:	None		
Co-requisites:	None		
Exclusions:	None		
Courses to which this module is restricted:	MBA Fintech and Data Analytics MBA Fintech and Data Analytics (with Professional Experience) MSc Finance and Fintech MSc Finance and Fintech (with Professional Experience)		

LEARNING, TEACHING AND ASSESSMENT INFORMATION

6a. Module Description
Financial markets have recently been experiencing radical transformation because of new product development, changing technologies, and market structure due to FinTech. In recent years, financial institutions have increasingly begun to rely on financial technologies (Fintech) to provide more efficient and convenient services. Adapting to fintech innovations brings new challenges and opportunities. At the same time, Sustainable Finance has become a subject of interest and how fintech can be used directly and indirectly to improve sustainability and influence policies and regulations. Issues such as climate change, water pollution and non-renewable resource management can be addressed in innovative ways with Fintech. The successful completion of this module will ensure that you are up to date with this ever evolving landscape and provide a better understanding of current topics such as FinTech, blockchain, crypto assets, and sustainable finance concepts to enhance your employability. Additionally, you'll be able to analyse how Fintech will influence the future of sustainable Finance.
6b. Outline Content

This module focuses on the current development in Finance and ensures that students are knowledgeable and aware of the recent developments such as Fintech, Crypto and Sustainability. Taking the module will ensure that on top of knowing the usual finance topics, the students are educated about the newly developing areas. This will also ensure the employability of students, since the job openings in the current areas, such as Fintech, Crypto and Sustainable finance are much more and better paid.

Introduction to FinTech and its roles in the digital economy:

- Evolution in the role of Financial Intermediaries
- Fintech Startups and the pillars of the digital economy
- Challenges and role of regulations in Fintech
- The Landscape of Fintech (trends) and why the world is interested in Fintech.
- How the Banks are responding to Fintech

Digital Identity and Cloud Computing

- Importance of digital identities
- What is cloud computing?
- Data Science and Big Data Analytics

Blockchain and Distributed Ledger Technology

- How Block Chain works
- Use of Block Chain Technology in Financial Services
- Applying Block Chain Technology (examples/case study)

Crypto assets

- What is Crypto Asset, Difference Between Financial and Crypto Asset, Evolution of Crypto Asset
- Changing Landscape of Banking: Open Banking (Digital Payment System)
- Challenges of adopting Open Banking
- Disruptions in Financial Markets and Business as a result of Financial Innovation

Sustainable Finance

- Overview of Sustainable Finance.
- Climate Change and role of policy and regulation.
- Capital Markets and Sustainable Finance (Green Bonds, Green Loans, Performance-based Instruments)

Fintech and Sustainability

- Fintech and Environmental Sustainability (Climate Finance through Block Chain based Green Bonds,
- Green energy and Block Chain technology)
- Fintech and Governance Sustainability (Fintech, Financial Inclusion and Sustainability; Financial Frauds and Fintech; Circular Economy: A Fintech Driven Solution for Sustainable Practices)

6c. Key Texts/Literature

The reading list to support this module is available at: <https://readinglists.aru.ac.uk/>

6d. Specialist Learning Resources

Bloomberg

7. Learning Outcomes (threshold standards)		
No.	Type	On successful completion of this module the student will be expected to be able to:
1	Knowledge and Understanding	Critically evaluate the impact of Fintech innovations on traditional banking and finance, analysing changes in efficiency and market practices.
2	Knowledge and Understanding	Demonstrate a comprehensive understanding of how Fintech supports sustainable finance by enhancing financial inclusion, improving market efficiency, and promoting environmental sustainability.
3	Intellectual, practical, affective and transferrable skills	Critically apply Bloomberg tools to analyse Fintech, cryptocurrency, and blockchain data, integrating real-world datasets to perform advanced analytics and support evidence-based decision-making
4	Intellectual, practical, affective and transferrable skills	Apply key technologies and metrics in Fintech to analyse and propose solutions for advancing sustainable finance and green energy initiatives

8a. Module Occurrence to which this MDF Refers				
Year	Occurrence	Period	Location	Mode of Delivery
2026/7	ZZF	Template For Face To Face Learning Delivery		Face to Face

8b. Learning Activities for the above Module Occurrence			
Learning Activities	Hours	Learning Outcomes	Details of Duration, frequency and other comments
Lectures	0	N/A	N/A
Other teacher managed learning	52	1-4	1 x 2 hours Tutor-led Workshop (2hrs x 12 weeks) 1 x 2 hours Student-led Workshop (2hrs x 12 weeks) Screencast or equivalent (20 minute maximum) x 12 weeks
Student managed learning	248	1-4	Learning activities provided and explained on Canvas
TOTAL:	300		

9. Assessment for the above Module Occurrence

The assessment for some modules includes a presentation (see below for details on how this particular module is assessed). We recognise that presenting, especially to a large group, can cause significant anxiety or distress for some students. If this may affect you, please contact your Module Leader or the Disability and Neurodiversity Service as early as possible. We will work with you to consider appropriate reasonable adjustments. Depending on your individual needs, these might include, for example, presenting to a smaller group or presenting only to a member of academic staff.

Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
010	Practical	1,3	40 (%)	Fine Grade	40 (%)

Group Presentation 20 minutes

Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
011	Coursework	2,4	60 (%)	Fine Grade	40 (%)

Unseen Online Case Test/Quiz 2 hours

In order to pass this module, students are required to achieve an overall mark of 40% (for modules at levels 3, 4, 5 and 6) or 50% (for modules at level 7*).

In addition, students are required to:

- (a) achieve the qualifying mark for each element of fine graded assessment as specified above
- (b) pass any pass/fail elements

[* the pass mark of 50% applies for all module occurrences from the academic year 2024/25 – see Section 3a of this MDF to check the level of the module and Section 8a of this MDF to check the academic year]