UNIVERSITY of BRADFORD

# Module Descriptor

| Module Details | |
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| Module Title | Fundamentals of Financial Technology, Blockchain and Value Creation |
| Module Code | AFE7517-B |
| Academic Year | 2022/3 |
| Credits | 20 |
| School | School of Management |
| FHEQ Level | FHEQ Level 7 |

| Contact Hours | |
|---|---|
| Type | Hours |
| Directed Study | 164 |
| Lectures | 24 |
| Tutorials | 12 |

| Availability | |
|---|---|
| Occurrence | Location / Period |
| BDA | University of Bradford / Semester 1 |

## Module Aims

The module aims to introduce students to the current developments in FinTech and its impact on investors, the financial services industry, markets and the global economy. It explores the on-going developments, issues, and debates and pinpoints the importance of FinTech and related concepts for different stakeholders. At the successful completion of this module students should be able to understand and critically evaluate issues on FinTech, Blockchain, value creation and related concepts and link their understanding with the recent developments in the global digital economy in general, and the financial services industry, in particular.

## Outline Syllabus

? Introduction to FinTech and its roles in the digital economy;
? Digital Identity and Cloud Computing;
? Data Science and Big Data Analytics, Blockchain and Distributed Ledger Technology;
? Cryptoassets;
? Open Banking;
? Digital Payments Systems;
? Disruption in Asset Servicing and Capital Markets;
? Disruption in Investment Management and alternative Data in Portfolio Management;
? Innovation and value creation;
? Online Marketplace Lending and Crowdfunding;
? WealthTech, RegTech and InsurTech;
? The Impact and legal implications of FinTech

## Learning Outcomes

| Outcome Number | Description |
|---|---|
| 1 | Demonstrate an understanding about current developments in FinTech and its impact on investors, the financial services industry, markets and the global economy. |
| 2 | Understand introductory topics in big data analysis and R programming. |
| 3 | Explore contemporary issues in big data analysis, blockchain, Cryptoassets, scientific computing and financial technology in relation to the financial services industry. |
| 4 | Understand the real nature of digital payment systems and the role of FinTech within markets and the global economy. |
| 5 | Understand economic and econometric theory relevant to Bitcoin and Blockchain. |
| 6 | Explore ethical issues related to risk governance and Fin Tech. |

## Learning, Teaching and Assessment Strategy

For both on-campus version of the module, learning will be directed, supported and reinforced through a combination of lectures and tutorial sessions as well as through directed and self-directed study. Tutorial sessions will complement formal lectures and will offer some opportunity for students to do some hands-on programming work using the open-source statistical package R. These activities will be based on either case studies or problem-solving exercises. Other tutorial sessions will reinforce some of the main themes explored in lectures.

Formative feedback will be provided throughout the entire module.

The final assessment for on-campus version will be a 3000 words individual coursework which explores a mixture of quantitative and qualitative themes outlined in the module.

Appropriate feedback, both formative and summative, will be given for the assessment. The assessment will assess against all the learning outcomes specified in this document.

| Mode of Assessment | | | |
|---|---|---|---|
| Type | Method | Description | Weighting |
| Summative | Coursework - Written | Individual Assignment (3000 Words) | 100% |

| Reading List |
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| To access the reading list for this module, please visit https://bradford.rl.talis.com/index.html |

*Please note:*
*This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.*

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