H8DSKFINT: Domain Skills in FinTech

Module Code:	H8DSKFINT
Long Title	Domain Skills in FinTech APPROVED
Title	Domain Skills in FinTech
Module Level:	LEVEL 8
EQF Level:	6
EHEA Level:	First Cycle
Credits:	5
Module Coordinator:	Simon Caton
Module Author:	Simon Caton
Departments:	School of Computing
Specifications of the qualifications and experience required of staff	

Learning Outcomes	
On successful completion of this module the learner will be able to:	
#	Learning Outcome Description
LO1	Explore problems in a specic subdomain of web technologies and identify appropriate tools for solving the problem
LO2	Apply suitable techniques to solve problems particular to the web technologies domain
LO3	Effectively use domain appropriate tools and applications to a high standard

Dependencies
Module Recommendations
No recommendations listed
Co-requisite Modules
No Co-requisite modules listed

Entry requirements	

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Module Content & Assessment

Indicative Content

History of Money and Ledger-based Economics
Centralized Ledgers Functions of Currency Distributed Consensus History of Bitcoin Price Derivation

Basic Cryptography
Terms and Denitions Hash Functions Symmetric and Asymmetric Encryption Digital Signatures

Bitcoin Basics
Bitcoin Community Bitcoin Addresses and Keys Bitcoin Transactions Bitcoin Blockchain Ledger bitcoin the Unit Bitcoin the Network BIPs Buying and Selling bitcoin Blockchain Explorers UTXOs

Mining
Purpose and Function Algorithm Mining Pools Mining Hardware Purpose and Function Algorithm Mining Pools Mining Hardware

Wallets, Clients and Key Management
Wallet Types Bitcoin Clients Deterministic Wallets (AKA BIP32) Passphrase-Encrypted Wallets (AKA BIP38) Backup Importing and Exporting

Bitcoin Commerce
Bitcoin as a Merchant Bitcoin Payment Processors Secure Payment Protocol (AKA BIP70)

Assessment Breakdown	%
Coursework	100.00%

Assessments

Full Time

Coursework

Assessment Type:	Continuous Assessment	**% of total:**	100
Assessment Date:	n/a	**Outcome addressed:**	1,2,3
Non-Marked:	No		

Assessment Description:
n/a

No End of Module Assessment

No Workplace Assessment

Reassessment Requirement

Coursework Only
This module is reassessed solely on the basis of re-submitted coursework. There is no repeat written examination.

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Module Workload

Module Target Workload Hours 0 Hours

Workload: Part Time

Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Lecture	No Description	24	Every Week	24.00
Tutorial	No Description	12	Every Week	12.00
Independent Learning	No Description	89	Every Week	89.00
			Total Weekly Contact Hours	36.00

Module Resources

This module does not have any book resources
This module does not have any article/paper resources
This module does not have any other resources

Discussion Note:	