

H8ECNP: e-Contracts and Payments

Module Code:	H8ECNP
Long Title	e-Contracts and Payments APPROVED
Title	e-Contracts and Payments
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	
<i>On successful completion of this module the learner will be able to:</i>	
#	Learning Outcome Description
LO1	Investigate e-contract and smart contract as well as e-payment and e-cash technologies, and their use cases.
LO2	Evaluate the challenges and disruptive aspects of e-contract and payment technologies.
LO3	Review current and emerging technologies and their fundamental as well as disruptive effects upon the nancial services sector and beyond.
LO4	Evaluate compliance and regulation issues in e-contracts and payments.
LO5	Build and evaluate proof-of-concept applications specic to the domain
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	
e-Contracts Fundamentals of e-Contracts (representations, legal frameworks, etc.) Digital signatures, and identities Regulation and compliance of e-Contracts From e-Contracts to e-Payments: instrumenting transactions e-Payments Case Studies in e-Payment providers and platforms (e.g. WePay, PayPal, WorldPay, BitCoin etc.) Evolution of e-Payments Architecture of e-Payment systems	
Blockchain Technologies and Cryptocurrencies Blockchain Stack, and Core Components Currencies and Platforms Transaction Types Trading via blockchain Storing and using cryptocurrencies Distributed Ledgers Mining (Smart) Contracts and digital identities Distributed consensus and Autonomy BitCoins and altcoins Blockchain on Tor	
Building e-Contract and Payment Applications Service Providers and their APIs Practical examples (e.g. BitCoin, Paypal, zero coin, etc.)	
Assessment Breakdown	%
Coursework	50.00%
End of Module Assessment	50.00%

Assessments

Full Time			
Coursework			
Assessment Type:	CA 1 (0380)	% of total:	50
Assessment Date:	n/a	Outcome addressed:	1,2,3,4,5
Non-Marked:	No		
Assessment Description:	n/a		
End of Module Assessment			
Assessment Type:	Terminal Exam	% of total:	50
Assessment Date:	End-of-Semester	Outcome addressed:	1
Non-Marked:	No		
Assessment Description:	n/a		
No Workplace Assessment			

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Module Workload

Module Target Workload Hours 0 Hours

Module Resources	
<i>Recommended Book Resources</i>	
<p>Melanie Swan.. Blockchain, Sebastopol, CA; O'Reilly, p.xvii, 130 :, [ISBN: 1491920491.].</p> <p>Paul Vigna. The age of cryptocurrency: how bitcoin and digital money are challenging the global economic order, New York; St. Martin's Press, [ISBN: 1250065631].</p>	
<i>This module does not have any article/paper resources</i>	
<i>Other Resources</i>	
<p>[Website], 1, https://blog.blockchain.com/category/tutorials/ </p>	
Discussion Note:	