Module code	SEL619	**Level**	6
Module title	The Blockchain and Cryptocurrency Revolution	**Credit value**	10
Common/Core/ Elective	Elective	**ECTS Credits**	5
		Notional learning hours	100
Courses on which the module is taught	*All*	**Teaching Period**	Autumn/ Spring

1. Module description

In this module you will explore the nature of borderless, blockchain-powered relations. From digital identities, online banking, gaming, digital arts and healthcare, blockchain supports users to manage their personal data in revolutionary ways. You will combine approaches to the use of blockchain technology and consider how it is implemented in real-world settings.

Blockchain is the technology that underpins cryptocurrencies such as Bitcoin and it has almost unlimited applications beyond finance. You will utilise cryptocurrencies and digital exchange within blockchain, explore and join existing projects, evaluate the impact of decentralisation of data and integrate varied perspectives on how emergent technologies are shaping the future and inspiring new types of social action.

This module does not require previous financial analytical background or knowledge of coding.

2. Learning outcomes

Upon successful completion of this module you will be able to:

Digital Data and Tools (MLO6)
Analyse and use digital tools and data responsibly in the context of new internet-based technologies Web 3.0 and digital token creation.

Interdisciplinary Perspectives (MLO9)
Investigate and apply perspectives from different disciplines to the context of addressing blockchain decentralised projects.

Human and Environmental Impact (MLO10)
Analyse the impact of human activity and people on the digital and social environment.

3. Learning and teaching methods

This is an exciting creative and skill-based module where you will explore blockchain, the impact of cryptocurrencies and other disruptive digital spaces. In workshops you will immerse yourself into the principles of blockchain technology, digitalisation of records, key cryptocurrencies (Bitcoin, Ethereum, USDT, ADA, SOL, XRP and others and altcoins) and their technological and economic innovations. You will explore crypto companies, digital

innovations, attend events and conferences. During your workshops you will practice crypto skills to experience how it works and the languages it uses.

Crypto/Blockchain skills are much sought after in the market so you can use this module to start a portfolio of your choice of skills in NFT (Non-Fungible Token) creation, community management, data analytics, trading software that you can gradually grow independently. Crypto projects are often thought of being highly technical but the truth is that there is a high demand on non-technical jobs, in marketing, arts, content-creation, design, social media management that you can use and apply within your own degree choices. In groups you will explore and start your own cryptocurrency projects. You will participate in the metaverse environment you will be provided with, for the presentation of your work.

Learning hours	
Directed learning	**36 hours**
Workshops/classes	36
Guided/Self-guided learning	**64 hours**
Total	**100**

4. Assessment, formative feedback and relative weightings

Assessment:

Project (Group Assessment)
Weight (%): 100
Word Count or Equivalent: 1,500 words [total written work 1,000 words + 1 NFT media per student]
In a small interdisciplinary group, you will consider a social problem that can be resolved through the creation of a blockchain / cryptocurrency project that uses NFTs. You need to create your own NFT and write a report on your project. You will upload the NFTs and written project to a designated metaverse site.

Each summative assessment will be preceded by an opportunity of formative assessment accompanied by formative feedback.

Mapping of assessment tasks for the module

Assessment tasks	**LO6**	**LO9**	**LO10**							
Project	x	x	x							

5. Indicative resources

Gilbert, Sam., 2022. *Crypto, web3 and the Metaverse*. Policy Brief. University of Cambridge. https://www.bennettinstitute.cam.ac.uk/wp-content/uploads/2022/03/Policy-brief-Crypto-web3-and-the-metaverse.pdf

Ed Team., 2022 'NFT creation tools: 8 Top-noch tools to help you on your creative journey' in *TokenMinds* https://tokenminds.co/blog/nft-development/nft-creation-tools/
Investopedia, 2022., Cryptocurrencies beyond bitcoin https://www.investopedia.com/tech/most-important-cryptocurrencies-other-than-bitcoin/

Makarov, I., and Schoar, A., 2022 'Cryptocurrencies and decentralized finance (DeFi)' in *Brooking Papers on Economic Activity* *https://www.brookings.edu/bpea-articles/cryptocurrencies-and-decentralized-finance-defi/*

Project Pointless: https://projectpointless.com/?gclid=EAIaIQobChMIwb6C-L77-QIVhuvtCh3jeQzSEAAYAyAAEgK8yvD_BwE

Coindesk: https://www.coindesk.com/newsletters/

Best Bitcoin Documentaries 2022 https://learn.bybit.com/en/crypto/best-bitcoin-documentaries/

Most watched on Blockchain 2022: https://www.bitcoinmarketjournal.com/most-watched-blockchain-youtube-videos/ and https://www.b2w.tv/blog/best-animated-blockchain-videos

Ted Talks:

https://www.ted.com/talks/kayvon_tehranian_how_nfts_are_building_the_internet_of_the_future?utm_campaign=tedspread&utm_medium=referral&utm_source=tedcomshare

All resources last accessed 3rd September 2022