



UCL

Blockchain Rules Online Executive Education Programme

This Executive Education programme has been designed for government officers, managers, legal professions, accountants and engineers interested in studying the foundations of the rules that govern today's digital economy with a focus on blockchain technologies with instruction provided by international thought-leaders and leading academics.

Blockchain—The Real Game Changer?

Today blockchain is not an immature technology anymore. Corporations in finance and beyond successfully completed blockchain pilots; investments reached over \$22.5 billion¹ and now are constantly rising. In a few years this technology will completely reshape many industries and government activities.

However, the potential of blockchain technologies is still overlooked by most. Educational materials are often superficial or overly-technical making their understanding of how blockchains will impact in the near future a challenge. Today innovation is the main factor to compete on and blockchain is the key.

The Blockchain Rules course is a “deep dive” into the key economic and legal issues related to breakthrough blockchain technologies. In particular, how blockchain technologies work, how they are regulated and how blockchain technologies can be exploited to innovate will be discussed .

How can blockchains be deployed practically alongside other emerging technologies will be also investigated. These technologies will likely impact like the Internet did twenty years ago. An understanding of blockchain technology rules is necessary to be part of the coming blockchain era.

1- CBInsights

UCL Blockchain Executive Education Programmes

The University College London (UCL) Blockchain Rules programme brings the world-renowned expertise of the UCL Centre for Blockchain Technologies (CBT), together with the foremost thinkers in blockchain technologies globally.

- Instruction by global thought leaders and academics
- Live online learning model: Core knowledge taught during nine evening online classroom sessions
- Innovative learning through the UCLeXtend platform—enabling you to access content and watch lectures online at any time to strengthen understanding of concepts

This programme delivers a comprehensive experience for executives to gain an understanding of the legal and regulatory implications of Distributed Ledger Technologies (DLT) when applied to industry and the public sector, and society.

Our goal is an intensive programme in blockchain literacy. You interact with academics at the cutting edge of research on legal and regulatory aspects of blockchain-based systems that inform strategic thinking and public policy. In addition, you will be immersed in a curated network of expert practitioners working with these technologies at the frontline.

Cost:

£1,500 (early bird discounts available off this price)

Length:

Nine Evenings Over Five Weeks (2 Hrs per Session)

When:

(June/July 2020)

Where:

Online

The Value This Programme Delivers To You

By taking this programme, you will gain the benefits of:

- The ability to recognise the fundamental rules that govern today's digital economy (e.g. antitrust law, Internet and data regulation) as they are related to Distributed Ledger Technology (DLT)
- An understanding of how to leverage blockchain technologies in your business or profession considering the legal issues involved.
- Recognising the impact that a rule can have in driving today's digital markets and the development of emerging technologies (e.g. blockchain) to be able to evaluate them critically
- Having a greater appreciation of global reg-tech scale in the innovation technology process.
- Online teaching via the UCLeXtend teaching platform
- Access to the UCL CBT and their associates, including the latest research, newsletters and events, both during and after the programme
- Certificate of Participation that can be used to evidence Continuing Professional Development (CPD) hours

Who Are These Programmes Aimed At?

Government officers, managers, legal professions, accountants and engineers interested in studying the foundations of the rules that govern today's digital economy with a focus on blockchain technologies (e.g. cryptocurrencies, smart contracts and blockchain).

Today, government officers, managers as well as professions need to have a clear overview of how emerging technologies, such as blockchain, not only work, but also are regulated to make their intervention and business effective. Breakthrough technologies, such as blockchain, are completely reshaping our economy and way to do business. A new rule, and generally any government intervention imposed on technologies can have a profound impact in our way to do business. Facebook Libra is a symbolic example.

Through this course, participants will significantly increase their ability to manage legal issues related to blockchain technologies (e.g. crypto currencies and smart contracts) to be proactive with daily challenges in their current and future business or profession.

"We stand on the brink of a fourth industrial revolution, which will fundamentally alter the way we live, work, and relate to one another. New technologies are dramatically transforming our economic systems, and our society in general, into something very different from what we were used to thinking about over the last few decades"

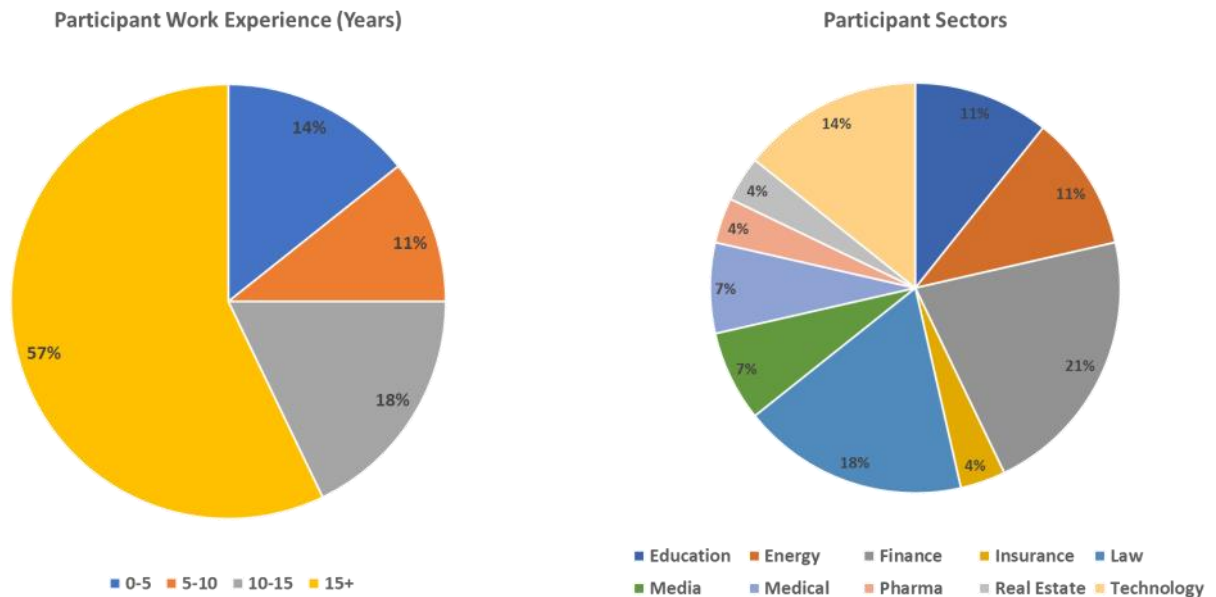
Dr Paolo Tasca, Executive Director - UCL CBT

Programme Participants & Feedback

Course participants on our programmes have come from a variety of sectors and with diverse work experience.

The median work experience of participants is greater than 15 years.

The following charts show the breakdown of participants based on work experience and industry sectors.



Feedback from previous programmes include:

- *“A thoroughly enjoyable course—I now read blockchain use cases with a different sense”*
- *“High quality speakers + content”*
- *“A good introduction to DLT”*
- *“Great delivery, structure, content and friendly/supportive delivery team”*

Programme Syllabus

This course is designed to provide participants with frameworks for evaluating blockchains through a legal and regulatory perspective.

Having introduced the main legal issues related to technologies (from the Internet to blockchain), the course proceeds with the key rules that govern the blockchain world (e.g. cryptocurrencies and smart contracts) and the exploitation of these technologies to regulate today's digital data-driven economy.

The course consists of nine modules developed in nine online classes (1.45 hours per class). Although this is an online course, the class aims to be highly interactive – demanding active learning, active listening, and the ability to both respond and formulate questions. Guest Speakers from public and private institutions will be involved to deliver their experience with topics covered in class.

On the following page the outline of the main areas of teaching on our programme is covered.



Session	Date / Time	Topic	Contents
1	30 June	What are the rules for technology?	Intro to the key legal concepts and issues (e.g. the telecommunication regulation, antitrust and IP law) concerning technologies: from the Internet to blockchain. Blockchain combines existing technologies. An understanding of how the Internet and data are regulated is fundamental to investigate the present and future blockchain regulation.
2	2 July	The Internet and data regulation	Blockchain combines existing technologies. An understanding of how the Internet and data are regulated is fundamental to investigate the present and future blockchain regulation.
3	7 July	Is code law?	Crypto-anarchy movement and the foundation of blockchain technologies. <i>Code is Law</i> and <i>Trust the Code</i>
4	9 July	Distributed Ledger Technologies	Intro to Blockchain, cryptocurrencies and smart contracts—how they work and applications.
5	14 July	Bitcoin – Cryptocurrencies and the law	What is money and the concept underlying a cryptocurrency. Intro to legal issues related to cryptocurrencies. Cases, such as Libra, will be analyzed and developed.
6	16 July	Blockchain regulation	What rules for blockchain technologies? An overview of the most recent developments in the blockchain regulation.
7	20 July	Smart Contracts	Analysis of the present and future adoption of smart contracts from a legal and business perspective
8	23 July	Government and regulation in blockchain	Investigation of the variety of blockchain types and applications with a focus on regulatory/ government applications.
9	28 July	The future of blockchain rules	An exploration of the future global regulation through and for blockchain technologies

Course Details

The UCL Blockchain Rules Online Executive Education Programme maximises interaction between course lecturers, practitioners and participants.

Teaching takes place through the UCLeXtend online learning system, where all learning materials are available and all lectures are recorded, such that you can easily cover material you missed or want to revisit.

This course consists of five weeks of core teaching via live online sessions. Sessions begin at 18:30 and aim to finish at 20:30 on Tuesday and Thursday evenings every week.

Course Dates

This course will occur every Tuesday and Thursday evening between June 30th and July 28th 2020 between 18:30-20:30 London, UK time.

Course Cost

This course costs £1,500. For the latest pricing information including early bird discounted offers, please visit our website.

Course Accreditation

UCL provides a certificate of attendance on completion of the course which evidences Continuing Professional Development (CPD) hours (for those who achieve more than 80% attendance of core sessions).

Course Requirements

- No prior knowledge of blockchains is required to take this course
- Most beneficial for mid to senior level managers in organisations looking to explore blockchain applications for their industries
- Outside of classroom time, expect 2-4 hours of extra work required per week

Who You Will Learn From

Your Convenor — Your subject matter expert who will lead the teaching on this programme



Dr. Giovanna Massarotto is an international expert on antitrust, economic regulation and IP law in the field of information technology. She has a PhD from Bocconi University in Milan where she researched and taught Competition Law as an Adjunct Professor. She is currently Research Associate of the UCL Centre for Blockchain Technologies (UCL CBT) and serves as an Adjunct Professor for the University of Iowa, in addition to teaching IT Law at H-FARM in Italy. Dr. Massarotto has been invited to lecture on antitrust and legal issues related to blockchain and digital markets by several organizations in the U.S. and EU, including Harvard, the Global Antitrust Institute (GAI) in Washington DC, multiple European universities, such as University of Oxford and EU regulating authorities, including the Competition and Markets Authority (CMA) and Autorita' per le Garanzie nelle Comunicazioni (AGCOM). Dr. Massarotto spent two years in the United States as a visiting research fellow for her PhD at Fordham University in New York and Washington D.C. working for an economic consulting firm specialized in IP law, economic regulation and antitrust in telecommunication and high-tech industry. She was an Academic Visitor at the University of Oxford, worked at the Italian Antitrust Authority (AGCM) and for various international law firms in Milan. Her book 'Antitrust Settlements—How a Simple Agreement Can Drive the Economy' presents the antitrust consent as a tool to combine law, economics and computer science in both U.S. and EU jurisdictions. In addition to the book, she has published multiple articles that investigate antitrust and regulatory issues related to blockchain, digital markets and software.

Guest Instructors — Global experts who will share their experiences and in-depth subject knowledge of the core elements of the programme



Mr Nikhil Vadgama is the Deputy Director of the UCL CBT and orchestrated the world's first accredited Blockchain Executive Education Programme. He is also a Lecturer in Financial Technology at the UCL School of Management. His experience has spanned multiple sectors including Education, Real Estate and FinTech. Most recently he has been involved in commercialisation of academic research in the AI and Blockchain domains. He was previously an Investment Banker with HSBC. Nikhil has an MBA from INSEAD, an MPhys from Oxford University and has passed all three levels of the CFA programme.



Dr Jiahua Xu is a postdoctoral fellow at École polytechnique fédérale de Lausanne (EPFL), as well as a research associate at Harvard Business School and the UCL Centre for Blockchain Technologies. Her research interests lie primarily in blockchain economics, behavioural finance and risk management.



Prof. Claudio Tessone is an Assistant Professor at the University of Zurich. He is an expert in the modelling of economic, social and technical systems from a quantitative and interdisciplinary perspective. His research focuses on blockchain and Bitcoin, specifically in the economic and technical aspects of these ground-breaking technologies: Emergent economic patterns, apparent and hidden incentive schemes, the design of new systems, and the design of decentralised, scalable architectures.

About the UCL Centre for Blockchain Technologies



The UCL CBT is the first centre globally to actively focus on blockchain-related research on the adoption and integration of Blockchain and Distributed Ledger Technologies into our socio-economic system.

The unique characteristics of the CBT at UCL provides a cross-sectoral platform connecting expertise and drawing knowledge from eight UCL departments centrally in one place. The CBT is a centre of excellence fostering open dialogue between industry players and sharing expertise and resources. It is a neutral think tank providing consultancy services to industry members, dedicated knowledge-transfer activities and cutting-edge in-house solutions.

For engagement outside of the academic world, the CBT's activities have been tailored to industry and policymakers' needs. The UCL CBT draws on its world-leading academic expertise to produce blockchain solutions for industry, start-ups and regulators. With a community of over 180 Research & Industry Associates and Industry Partners, it is the largest Academic Blockchain Centre in the world.

Notable Work

- The CBT released a report on the current adoption of DLT in global physical supply chains. The report featured an analysis of over 100 different projects taking place all over the world in the Grocery, Pharmaceutical and Fashion industries. [Access the report here.](#)
- The CBT is leading the Blockchain Technology for Algorithmic Regulation and Compliance (BARAC) project. This is the largest publicly funded blockchain project aimed at the public sector that will be defining feasibility guidelines to policymakers, industry and regulators by identifying problems and associated solutions with a bottom-up approach, built through case studies and proof of concept platforms. For this project, the CBT is partnering with the Financial Conduct Authority and the Singapore Monetary Authority and financial groups and Fintech companies like Banco Santander and R3.
- The CBT is a founding member of the Covid Task Force alongside The International Association for Trusted Blockchain Applications (INATBA) and the European Commission. The task force is convening key players in the global blockchain ecosystem to identify deployable technology solutions that address governmental, social, and commercial challenges caused by COVID. As well as identifying solutions, the Task Force will work to expedite their deployment.
- The CBT successfully funded nine research proposals that investigated topics including stable coin policy, smart contract innovation, blockchain economics and blockchain governance models. Research teams who were funded were made up of individuals from a variety of academic and industry organisations. [Learn more about the projects here.](#)
- The CBT launched the Block-Sprint hackathon to promote DLT innovation in the financial services sector. Over 160 individuals took part in the 2019 edition forming teams made up of industry practitioners, academics, and students. [Learn about the winners and innovate ideas that were generated in the hackathon here.](#)

About UCL

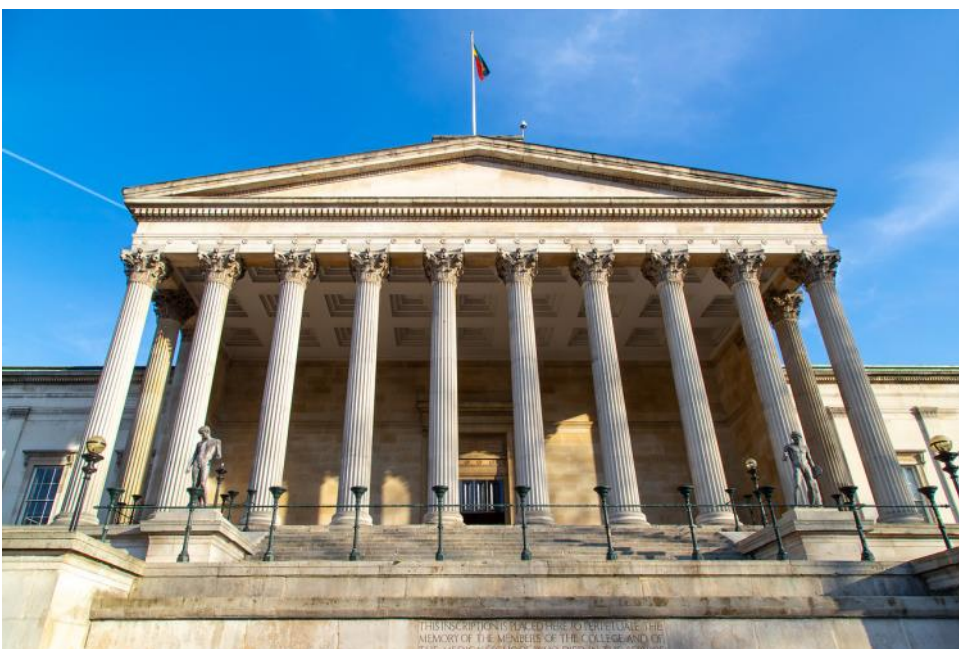
UCL is consistently ranked as one of the top 10 universities in the world¹. It enjoys this reputation as a globally leading academic centre of excellence due to its culture of innovation and radical ideas. It was the first university in England to admit women on an equal basis as men in 1878. It has 29 Nobel laureates amongst its ranks, past and present.

Founded by Jeremy Bentham in 1826, UCL was the first university in England to be entirely secular and to admit students regardless of their religion. UCL alumni include the “Father of the Nation” of each of India, Kenya and Mauritius, the founders of Ghana, modern Japan and Nigeria, the inventor of the telephone, and one of the co-discoverers of the structure of DNA.

UCL invests strongly in the practical commercialisation of academic research by fostering innovation. The founders of DeepMind (now part of Google), one of the leading Artificial Intelligence companies in the world, met whilst at UCL. Deepmind is one of many success stories borne out of UCL’s innovation environment.

The UCL ecosystem consists of more than 13,000 staff and 38,000 students from 150 different countries. This ecosystem has helped it achieve its ranking as the top university in the UK for research strength².

1 - QS World Rankings 2 - REF



Our Education Partners

In delivery of our programmes we have worked with a number of different academic and commercial organisations both in the UK and internationally.

When engaging in international programmes, we aim to work with a local partner that is well established and respected in that area.

Some of the partners we have worked with previously both in the UK and internationally include:



IDEALondon was the first corporate-university technology ‘post accelerator’ and has a successful track record in accelerating start-up growth through collaborative business and academic support.

It has mentored hundreds of technology companies, scaled 50+ start-ups, raised £60M+ investment funding, created over 500 jobs and hosted over 500 events over 4 years.

A successful collaboration between Cisco, UCL and new partners EDF Energy, it is also supported by Capital Enterprise, who serve 1/3 of all companies looking to raise funding in London. It supports the broad-spectrum of technology disciplines, including digital, business analytics, data science and blockchains.

Located at the interface of Islington, Hackney and Shoreditch, the 3rd largest tech start-up cluster in the world, with a neighbourhood that is home to GoogleUK, AmazonUK and Microsoft Reactor Labs, this flagship accelerator provides space and support for entrepreneurial start-up businesses to develop into stable enterprises, creating a lasting impact on London’s technology communities and the wider UK and global digital economies.



Cyprus Blockchain Technologies Ltd. is a non-profit organisation established as a collaboration among academic institutions, including CIIM – Cyprus International Institute of Management, University College London Centre for Blockchain Technologies (UCL CBT) and University of Nicosia, local regulators, financial institutions and

banks (including Hellenic Bank, Bank of Cyprus and Cooperative Bank), as well as other technology associations and companies.



The **University of Nicosia (UNIC)** is the largest university in Cyprus, with more than 11,000 students from over 70 countries across the globe, coming together in an innovative and transformative learning space.

Located in Nicosia, the country’s capital, and with presence in 18 other cities worldwide, UNIC is driven by its pursuit of excellence in teaching and learning, innovation, research, technology, and a continually evolving academic environment. UNIC was also awarded the title of “Biggest Contributor to the Rise of Blockchain in 2018” at 2018’s annual Blockchain Expo, held in RAI, Amsterdam, on 26-27 June 2018. The accolade at the inaugural Blockchain Awards was earmarked for an organisation that has demonstrated excellence in the strategy, application, or effectiveness of blockchain technologies. Over the past year UNIC stands out as the first university to offer a free online course on cryptocurrency, followed by the world’s first full academic degree in blockchain (MSc in Digital Currency). In the past year, UNIC once again broke new ground by being the first university in the world to publish all diplomas of its graduating students on the Bitcoin blockchain.



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Blockchain Executive Education Programmes

Email: blockchain_education@ucl.ac.uk

Website: blockchain.cs.ucl.ac.uk/education/

Please see our website for up to date information on programmes



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Blockchain Executive Education Programmes

Providing unique programmes for business strategists, innovators, futurists and public sector planners to gain a rigorous understanding of the impact of blockchains on industry and society, both today and in the future.

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