



# Course title: Blockchain, Web 3.0 and the Metaverse

## **Description of the Program**

The Blockchain, Web 3.0, and Metaverse Intensive Program aims to provide participants with a comprehensive understanding of the emerging technologies shaping the digital future. This program is designed for students, faculty, and professionals interested in gaining in-depth knowledge of blockchain technology, digital assets, NFTs, and the Metaverse.

### Aim and Objectives

The primary goal of this program is to explore the intersection of blockchain, Web 3.0, and the Metaverse, emphasizing their potential impact on various industries. The specific objectives include:

- Introducing foundational concepts of Web 3.0 and blockchain technology.
- Analyzing the role of digital assets, cryptocurrencies, and NFTs.
- Investigating the architecture and technologies behind the Metaverse.
- Understanding synergies between these technologies and their future trends.
- Providing hands-on experience in crypto wallets, NFT minting, and Metaverse design.

### **Learning Outcomes**

By the end of the program, participants will be able to:

- Understand the principles and evolution of Web 3.0.
- Demonstrate knowledge of blockchain technology and its applications.
- Develop hands-on skills in using digital wallets and performing blockchain transactions.
- Analyze the role of NFTs and their real-world applications.
- Engage in discussions about ethical, technical, and governance challenges.
- Participate in a capstone workshop to design a Metaverse experience.

### Mode of delivery and Schedule

Mode: Face-To-Face Dates: May 26-30, 2025



Monday, May 26					
Time	Session	Instructor	Details		
9:00-9:30	Course Introduction	S. Louca	Overview of the course, objectives, and structure		
9:30-10:30	Introduction to Web 3.0		Definition, principles, and evolution from Web 2.0; Key features and innovations		
10:30-11:00	Coffee Break				
11:00-12:30	Understanding Blockchain Technology	S. Louca	Fundamentals of blockchain; How blockchain enhances Web 3.0		
12:30-13:30	Lunch				
13:30-15:00	Digital Assets in Web 3.0	S. Louca	Cryptocurrencies, tokens, and their implications		
15:00-15:15	Coffee Break				
15:15-16:30	Interactive Q&A and Discussion	S. Louca	Clarifications, initial reflections, daily wrap-up		
19:30-22:00	Dinner				
22:00	End of day 1				



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Tuesday, May 27				
9:00-10:30	Crypto Wallets	M. Themistocleous	Install, delete, recover a wallet; Demo transactions and cybersecurity	
10:30-11:00	Coffee Break			
11:00-12:30	Blockchain and Disruptive Innovation	M. Themistocleous	Money, banks, and market disruption; NFTs and their disruptive potential	
12:30-13:30	Lunch			
13:30-15:00	NFTs	M. Themistocleous	Use cases in arts, gaming, etc.; Security, ownership, and provenance	
15:00-15:15	Coffee Break			
15:15-16:30	Hands-on Workshop: Minting NFTs	M. Themistocleous	Creating and transacting NFTs; Daily wrap-up	
16:30	End of day 2 - Free time			





Wednesday, May 28					
9:00-10:30	Introduction to the Metaverse	S. Louca	Conceptual framework and historical context		
10:30-11:00	Coffee Break				
11:00-12:30	Metaverse Architecture and Technologies	M. Themistocleous	AR, VR, AI integration		
12:30-13:30	Lunch				
13:30-15:00	Avatars & NFTs in the Metaverse	M. Themistocleous	Creating your own avatar		
15:00-15:15	Coffee Break				
15:15-16:30	Interactive Discussion on Metaverse Use Cases	M. Themistocleous	Group discussions and idea sharing; Daily wrap-up		
16:30	End of day 3 - free time				





Thursday, May 29					
9:00-10:30	Synergies Between Web 3.0, Blockchain, and the Metaverse	S. Louca	Technological and economic interactions		
10:30-11:00	Coffee Break				
11:00-12:30	Future Trends in Blockchain and the Metaverse	S. Louca	Technologies, innovations, challenges, and open questions		
12:30-13:30	Lunch				
13:30-15:00	Capstone Workshop: Designing a Metaverse Experience	M. Themistocleous			
15:00-15:15	Coffee Break				
15:15-16:30	Capstone Workshop Continued & Course Wrap-up				
16:30	End of day 4 - free time				
		Friday, May 30			
09:00	Field Trip				
09:00-11:00	University of Nicosia - Metaverse lab	C. Christou	UNIC Metaverse infrastructure and projects demonstration		
11:00 - 13:00	CYENS Centre of Excellence	F. Liarokapis	CYENS infrastructure and Metaverse projects; Recent advancements in the area Future trends		
13:00-16:00	Lunch				
End of day 5 and course					