

# Professional Master's Degree

## Tokenization and NFTs



## Professional Master's Degree Tokenization and NFTs

- » Modality: online
- » Duration: 12 months.
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/in/information-technology/professional-master-degree/master-tokenizacion-nfts](http://www.techtitute.com/in/information-technology/professional-master-degree/master-tokenizacion-nfts)

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# 01

# Introduction

Tokenization has had a significant impact on the digital world by introducing new ways to represent, exchange and monetize assets virtually. One evidence of this is NFTs, which have facilitated funding, integration and decentralization, empowering digital creators and promoting transparency and authenticity of properties. It is therefore crucial for IT to stay at the forefront of asset digitization. With the above in mind, TECH has designed a program for professionals to acquire advanced knowledge in NFTs and understand their importance in the digital economy. All in a 100% online format, which will provide flexibility to access it anytime, anywhere, without fixed schedules.





# NFT

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*Specialize in the most innovative Asset Digitization tool in the virtual world, with this exclusive TECH program”*

With the emergence of the CryptoKitties phenomenon, a set of cryptocurrencies based on Ethereum, the concept of NFTs began to take shape. Hence the idea that demonstrated the potential of representing unique and scarce digital objects in the form of non-fungible tokens. This brings us to the origin of the tokenization of goods, which is closely related to the development of Blockchain technology, more specifically with the popularization of the Ethereum currency.

Since then, Tokenization and NFTs have rapidly expanded to different fields, such as digital art, music, video games, sports and more. Over time, artists, musicians, collectors and creatives started using non-fungible tokens as a way to authenticate and sell their digital works directly to buyers and without intermediaries.

This is why the role of the computer scientist becomes important, since mastery in Tokenization and NFTs is essential in the monetization of assets. For this reason, TECH has developed this 12-month Professional Master's Degree with advanced and updated content, elaborated by A program that will provide students with a detailed understanding of asset tokenization, from its conceptualization to its commercialization and valuation, giving participants the necessary tools to understand and participate in this constantly evolving field.

For this purpose, TECH has developed a program with quality content such as multimedia materials where interactive summaries, quick action guides and specialized readings can be found. In addition, by using the Relearning method, implemented by TECH, the IT professional will advance more fluently in this program, strengthening the new concepts in a simpler way and reducing the extensive hours of study.

An exceptional opportunity that will allow the student to be at the forefront in the Tokenization of rights and will open the doors to better professional opportunities. In addition, you will have the flexibility to coordinate daily activities and work with learning, since you will be able to access from anywhere and at any time just by having an electronic device with network connection.

This **Professional Master's Degree in Tokenization and NFTs** contains the most complete and up-to-date academic program on the market. Its most notable features are:

- ♦ The development of practical cases presented by experts in finance and Blockchain.
- ♦ The graphic, schematic and practical contents of the book provide technical and practical information on those disciplines that are essential for professional practice.
- ♦ Practical exercises where self-assessment can be used to improve learning.
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection.



*With this Professional Master's Degree in Tokenization and NFTs, you will boost your career and master the new technologies in the Fintech field"*

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*Thanks to an innovative syllabus developed by experts, you will be able to access the latest advances in NFTs in the Metaverse”*

The program’s teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program’s design focuses on Problem-Based Learning, through which the professional must try to solve the different professional practice situations that arise during the academic program. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*Take advantage of the opportunity to specialize in token valuation and you will open the doors to job opportunities in a constantly growing market.*

*You will develop skills in Security Tokens and be at the technological forefront in the digital economy.*



# 02 Objectives

This qualification has been designed with the objective of providing the IT professional with specialized and up-to-date knowledge on emerging technologies in the field of digital assets. This will allow the student to understand and explore the possibilities existing in the world of Tokenization and NFTs, such as application development, IT security, system design and asset management. This is accompanied by a wealth of learning materials to which you will have 24-hour access.







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*You will create Smart Contracts and Wealth Taxes by taking the Professional Master's Degree in TECH”*



## General Objectives

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- ♦ Analyze the scope of the Fintech revolution
- ♦ Identify the origin and reasons for the emergence of Fintechs
- ♦ Observe the differential value provided by Fintechs
- ♦ Understand the concept of Tokenization
- ♦ Understand the Tokenization process
- ♦ Identify which projects are tokenizable
- ♦ Establish the advantages offered by tokenization
- ♦ Provide an in-depth understanding of Blockchain technology and its implementation in the tokenization of assets
- ♦ Analyze the technical specifications of Tokens and their standards, Blockchain types, security in Blockchain networks, smart contracts, success stories and the advantages and disadvantages of asset tokenization
- ♦ Apply the most advanced concepts and tools to carry out token and cryptocurrency trading transactions in a secure and efficient way.





## Specific Objectives

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### Module 1. New Fintech Business Models

- ♦ Examine the differential value of the technologies that Fintechs rely on
- ♦ Identify use cases and verticals in the Fintech sector
- ♦ Analyze the functioning of Fintechs as startups and the sources of financing they can draw on
- ♦ Visualize the challenges and opportunities faced by Fintechs

### Module 2. Asset Tokenization Process

- ♦ Plan a tokenization process
- ♦ Plan actions for tokenization
- ♦ Determining the Key Points for Successful Tokenization

### Module 3. Blockchain Networks for Asset Tokenization

- ♦ Develop the technical characteristics of tokens, including ERC20, ERC721 (NFTs) and other standards
- ♦ Examine the different types of assets that can be tokenized and the functioning of Blockchain networks
- ♦ Study success stories and projects that use Blockchain for asset tokenization, as well as common vulnerabilities in Blockchain networks and security measures for their protection
- ♦ Analyze the functioning of the Ethereum Virtual Machine (EVM), including its security and transparency in the execution of smart contracts and the different programming languages used in this field

#### Module 4. Means of Payment in Token Trading

- ♦ Identify the main token and cryptocurrency trading platforms
- ♦ Analyze the characteristics and requirements of each payment method and apply the necessary procedures to carry out a secure transaction
- ♦ Comply with the rules and regulations in force regarding AML and KYC

#### Module 5. Security Tokens

- ♦ Identifying the different Security Tokens that can be issued
- ♦ Analyze the stakeholders of an STO
- ♦ Establish how to write a white paper for an STO and a tokenized contract

#### Module 6. Utility Tokens

- ♦ Identifying the different Utility Tokens that can be issued
- ♦ Determining the stakeholders of an UTO
- ♦ Learn how to write the *white paper* of a UTO
- ♦ Establish the different types of Utility Tokens that can be issued

#### Module 7. NFTs of Art and Collectibles

- ♦ Explore the key characteristics of Non-Fungible Tokens (NFTs), such as their unique, indivisible and verifiable nature
- ♦ Analyze the impact of NFTs in different industries and how they are transforming the way digital products are traded and consumed
- ♦ Delve into the technology behind NFTs, such as the Blockchain and smart contracts, and how these tools are used to create, store and verify the authenticity of non-fungible tokens

- ♦ Identify the advantages and disadvantages of NFTs, including their potential impact on transparency, security and the environment, as well as their ability to improve the tracking and control of copyrights
- ♦ Explore the opportunities and challenges that NFTs can present for the art world, culture and the global economy in general. We will look at where they can be purchased along with their buying process

#### Module 8. Authenticity Certification with NFTs

- ♦ Analyze real cases of application of NFTs as certificates of authenticity
- ♦ Determine the needs of smart contracts to meet traceability and authenticity requirements
- ♦ Identify other possible applications of NFTs as certificates of authenticity

#### Module 9. NFTs in the Metaverse, DAOs and New Trends

- ♦ Explain in detail how NFTs work and their use in the Metaverse, DAOs and their relationship to NFTs
- ♦ Determine how unique virtual objects can be created and sold using NFTs, demonstrating how these tools can be used in digital community funding and governance projects
- ♦ Examine how NFTs are related to decentralization trends in the digital world, covering topics such as Web3 and DeFi. Explore how NFTs can be applied in other areas, such as education, health and environment
- ♦ Acquire a solid technical understanding of NFTs, DAOs and trends in the digital world, which will allow us to apply this knowledge in constantly evolving projects in the field of NFTs and decentralization





### Module 10. Taxation of Tokens

- ♦ Examine the different types of tokens and their particular tax characteristics
- ♦ Break down the tax obligations associated with buying, selling, exchanging, mining, staking tokens, etc. including treatment of capital gains and losses, income and deductions
- ♦ Analyze how token holdings and transactions should be recorded and reported on tax returns, addressing filing requirements and deadlines
- ♦ Develop case studies and real-world examples to illustrate how tax rules apply in different scenarios and specific situations involving tokens

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*Thanks to TECH you will learn how to prepare a White Paper of an STO and tokenized contracts”*

# 03 Skills

With this Professional Master's Degree, the computer scientist will be able to develop skills and abilities such as knowledge of Blockchain technology, the development of smart contracts, and expand their knowledge in information security, such as encryption and protection of private keys. With this, you will have the power to advise companies and organizations on how to leverage the Tokenization of rights in their business models, to ensure the integrity and confidentiality of digital assets. To achieve this, students are provided with the necessary resources to become an integral professional with greater opportunities in the labor field.



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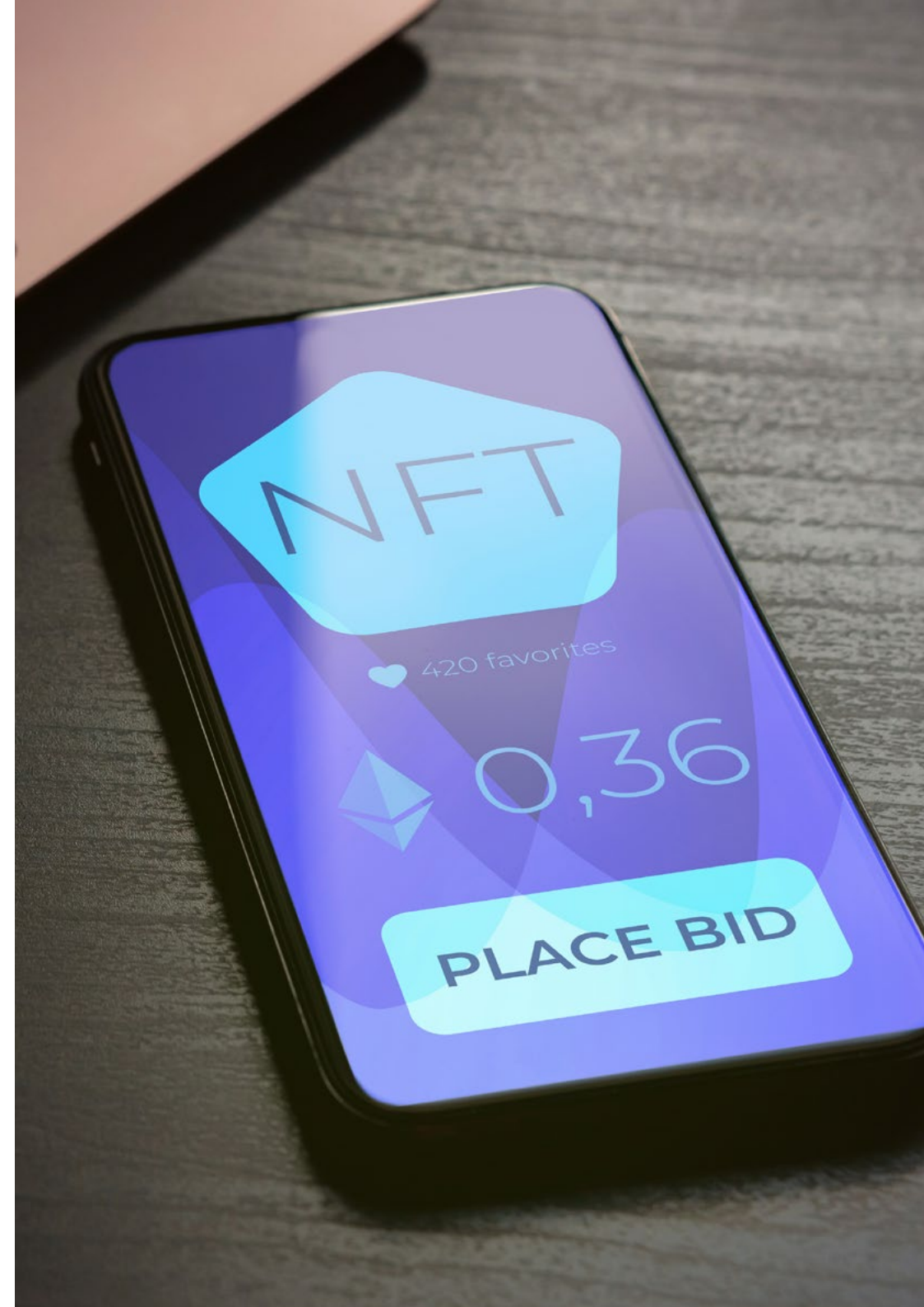
*You will discover how to change the game and create new business opportunities by becoming a leader in the digital economy”*



## General Skills

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- Provide a thorough understanding of legal, tax and security factors
- Selecting appropriate payment platforms and methods for each situation
- Analyze the concept of Security Token
- Determine how a STO works
- Identify Security Token sales
- Analyze the concept of Utility Token
- Examine how a UTO works
- Identify Utility Token sales
- Develop expertise on non fungible tokens (NFTs) and their growing importance in the digital economy
- Analyze the unique characteristics of NFTs and their impact on various industries







## Specific Skills

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- Examine the existing technologies behind NFTs and analyze the opportunities and challenges involved in this emerging technology
  - Generate solid knowledge about NFTs to understand how they are transforming the digital marketplace and the global economy
  - Gain the necessary knowledge within NFTs in both ERC721 and ERC721A and ERC1155 standards that will help students create new Blockchain-based products
  - Develop specialized knowledge about NFTs in the Metaverse and their use in various domains, from the creation and sale of virtual objects to the financing of projects and the governance of digital communities
  - Analyze DAOs, an innovative form of organization in the digital world, and how they are related to NFTs
  - Explore how the trend towards decentralization is transforming the way financial transactions are conducted and how new trends such as DeFi and the tokenization of physical assets are being uncovered
  - Fundamentals of NFTs, DAOs and current trends in the digital world, which will allow us to keep abreast of developments and opportunities in this constantly evolving field
  - Fundamentals of tax concepts, token classification and the relationship of these digital assets with the tax framework and its legal implications
- Analyze the taxation applicable to different types of tokens and how the associated taxes should be declared and calculated based on local and international regulations
  - Provide tips and strategies for efficient tax management and regulatory compliance when handling tokens, addressing issues such as risk prevention and tax planning



*You will delve into projects that use Blockchain and the procedure for Asset Tokenization”*

# 04

# Course Management

TECH, committed to providing quality learning, has carried out a thorough selection process of the teachers who are part of this program. This ensures that students have access to an education designed by leading experts in the field. In the case of this Professional Master's Degree, graduates will benefit from a syllabus developed by leading specialists, who have extensive experience in NFTs and property tokenization. In this way, students will have the confidence of receiving a high-level degree that will prepare them to excel in the field of non-fungible tokens.



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*You will reach your career goals with  
the accompaniment of great experts in  
finance and Blockchain development”*

## Management



### Dr. Gómez Martínez , Raúl

- ♦ Founding Partner and CEO of Open 4 Blockchain Fintech
- ♦ Founding Partner of InvestMood Fintech
- ♦ Chief Executive Officer at Apara
- ♦ PhD in Business Economics and Finance from Universidad Rey Juan Carlos de Madrid
- ♦ Degree in Economics and Business Administration from Complutense University of Madrid
- ♦ Master's Degree in Economic Analysis and Financial Economics from Universidad Complutense de Madrid

## Professors

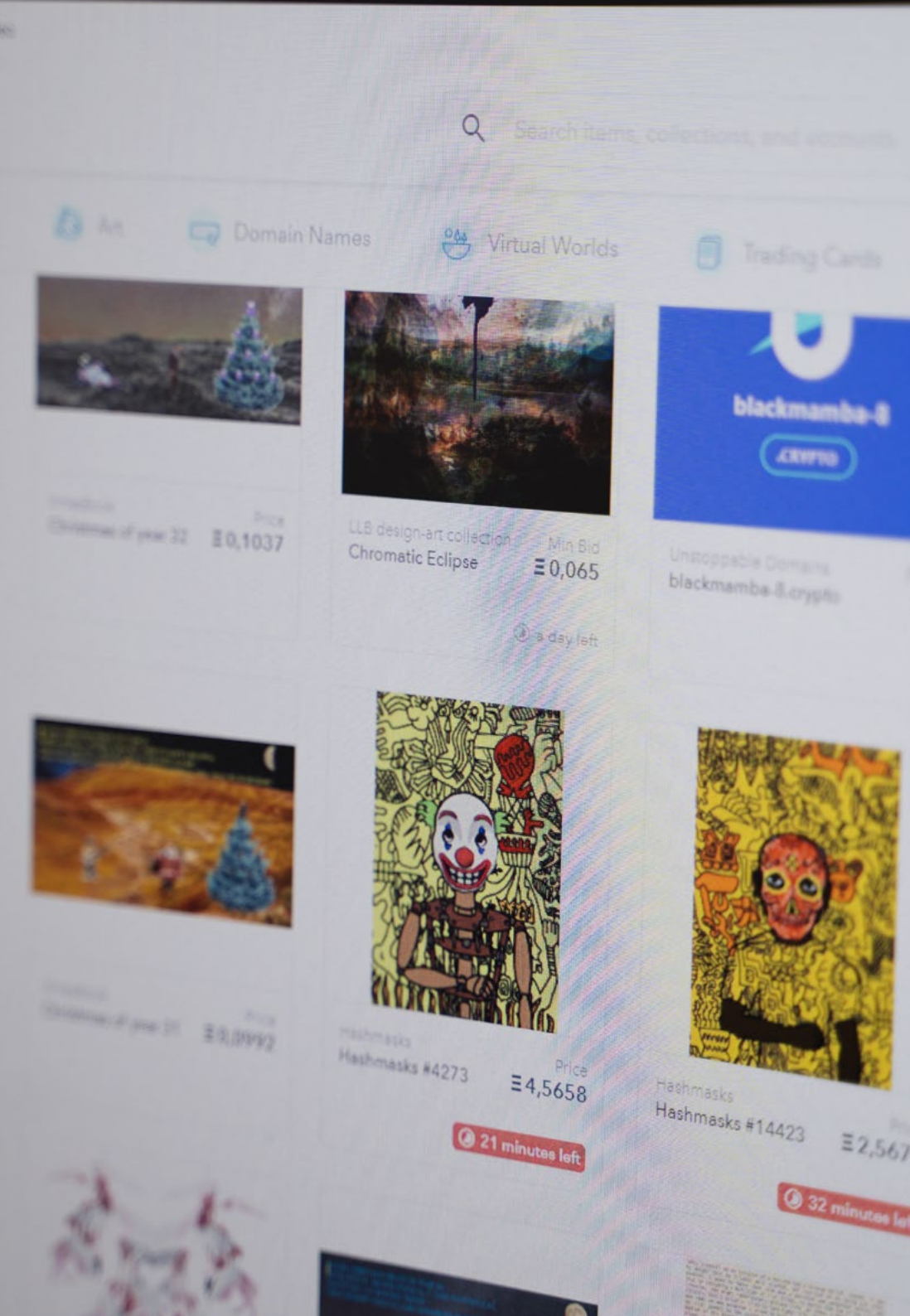
### Dr. Medrano García, María Luisa

- ♦ Director of university graduate programs
- ♦ Technical advisor for public institutions
- ♦ Lecturer in university degrees, courses and postgraduate programs
- ♦ Ph.D. in Senior Management from Rey Juan Carlos University
- ♦ Degree in Business Administration from Universidad Complutense de Madrid
- ♦ Research Award from the Economic and Social Council of the Community of Madrid

### Mr. García Gorriti, Borja

- ♦ Systems Engineer and Entrepreneur
- ♦ Best startup in La Rioja with stampymail
- ♦ One of the 10 best young innovators by the Ministry of Industry with the Stampymail project
- ♦ Masters Degree in Blockchain from the University Miguel de Cervantes
- ♦ Technical Engineer in Computer Systems from the Universidad de Alcalá de Henares





**Mr. García Gorriti, Juan**

- ◆ Consultant specialized in corporate taxation
- ◆ Specialist in Blockchain and cryptoassets
- ◆ Entrepreneur helping to the creation of innovative companies from the legal/tax branch
- ◆ Private teaching in legal and administrative branch

**Mr. Diner , Franco**

- ◆ Blockchain Developer at Open 4 Blockchain Fintech
- ◆ Blockchain Developer at Bifrost
- ◆ IT Developer at Arbell
- ◆ Fullstack Developer at Digital House
- ◆ Systems Analyst at O.R.T. Technical School
- ◆ Degree in Information Technologies in the University of Palermo
- ◆ Tutor and teacher of Coderhouse Web Development

**Mr. Gratacós Sánchez de Rivera, Ignacio**

- ◆ Events Staff Coordinator at Alternativa Eventos
- ◆ Double Degree in Law and Business Administration from the Rey Juan Carlos University
- ◆ Expert in E-Commerce by the Rey Juan Carlos University
- ◆ Expert in Digital Marketing from the Rey Juan Carlos University

**Mr. Saiz De Pedro, Marcos Manuel**

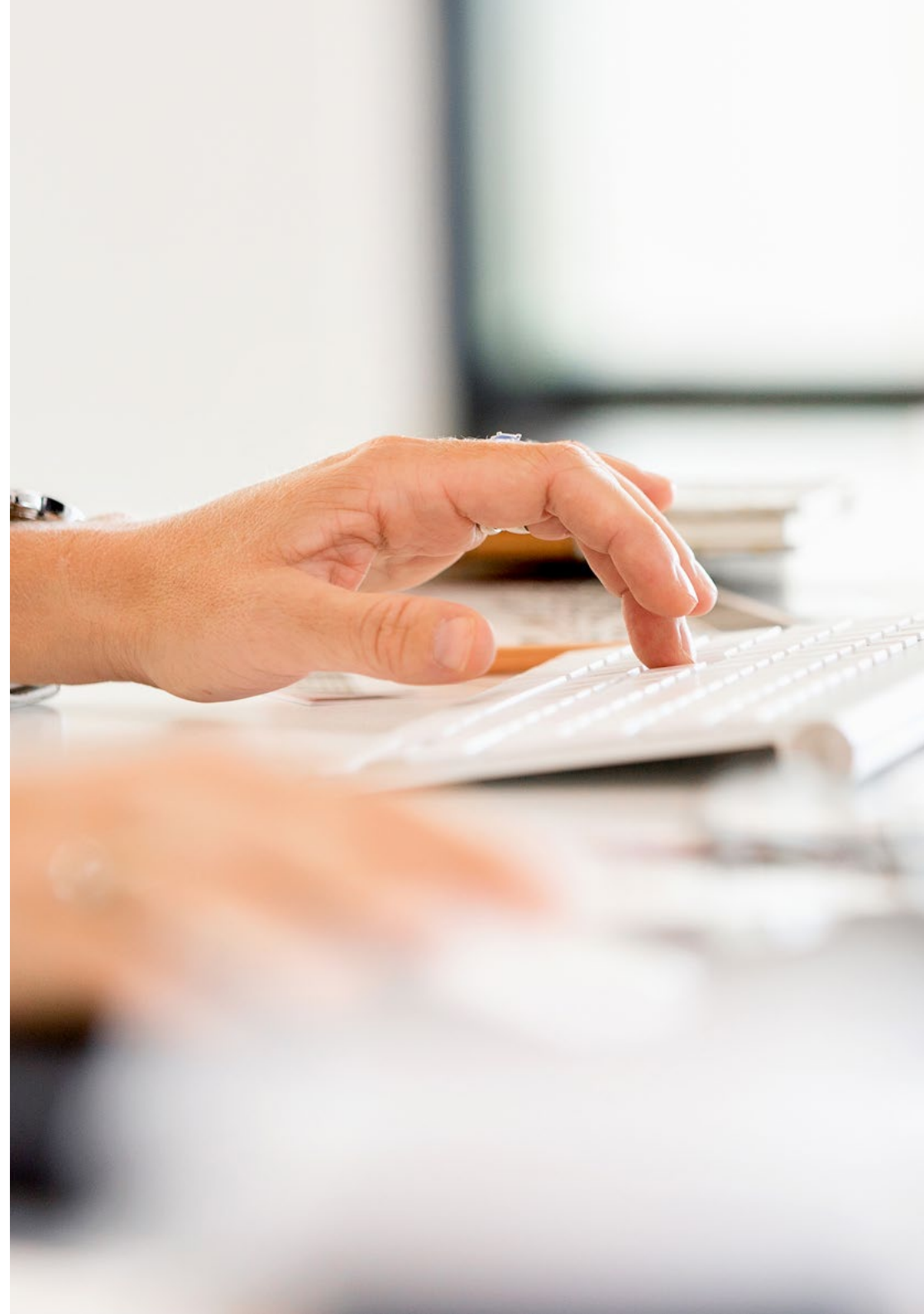
- ◆ Double Degree in Law and Business Administration and Management
- ◆ Degree in Business Administration and Management from the Ludwig Maximilians Universität
- ◆ Degree in Telecommunication Technologies and Services from the Polytechnic University of Madrid

**Mr. González Serradilla, Miguel Ángel**

- ♦ Member of the Board of the Faculty of Economics and Business Sciences
- ♦ Delegate of the Law Degree at Rey Juan Carlos University
- ♦ Delegate of the Degree in Business Administration and Management at Rey Juan Carlos University
- ♦ Member of the National Council of Law Students

**Mr. Mateo Castro, Manuel**

- ♦ Management of metrics development for results analysis at Ospina Abogados
- ♦ Billing Management at FACE S.L.
- ♦ Degree in Business Administration and Management from the Business & Marketing School
- ♦ Expert in Global Marketing Management by the Business & Marketing School



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*An unique, key, and decisive educational experience to boost your professional development”*



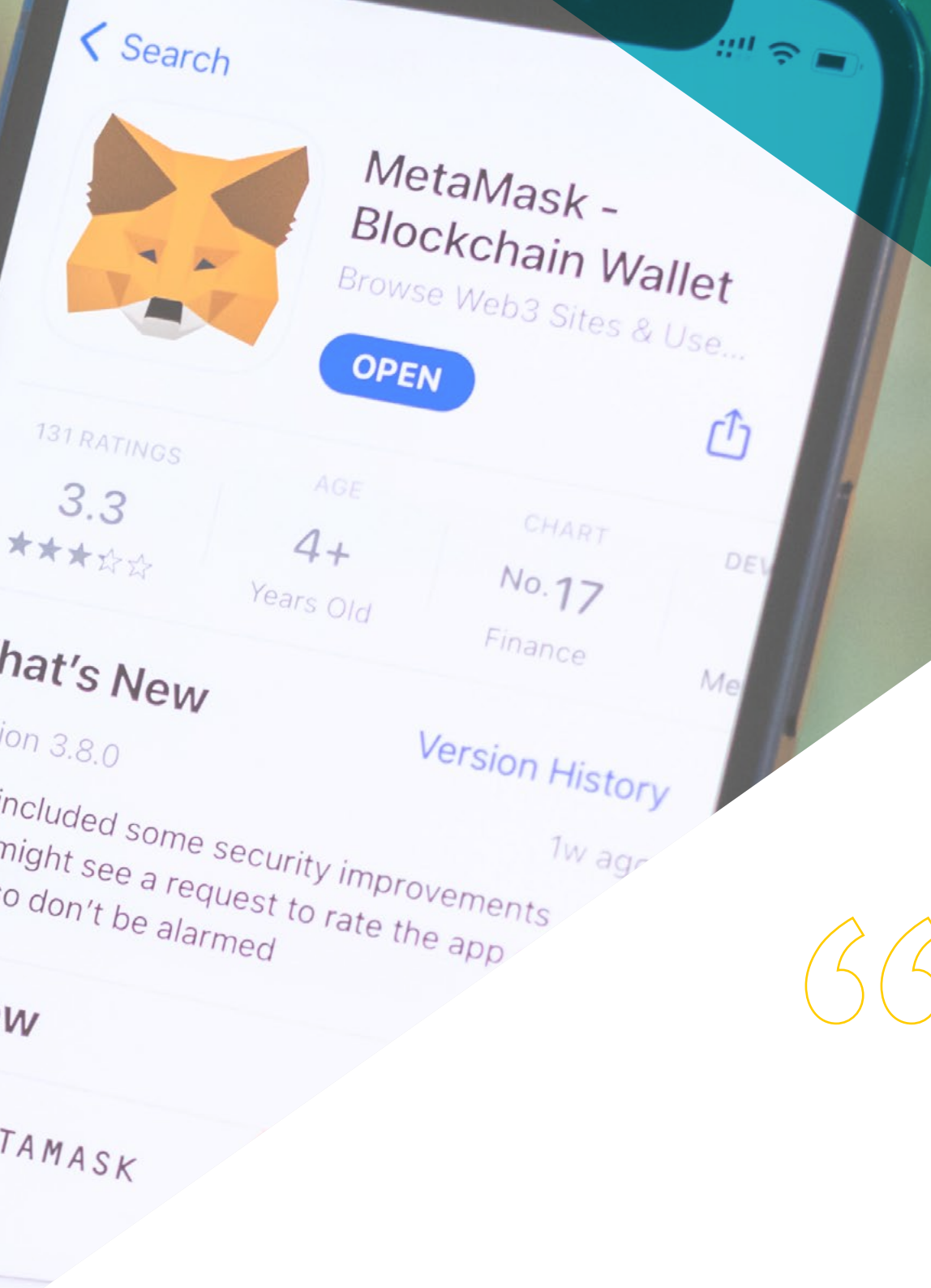
# 05

## Structure and Content

The syllabus of this Professional Master's Degree in Tokenization and NFTs covers the concepts required to develop various IT jobs in the world of digitization of goods. In this way, the professional will delve into topics such as Fintech business models, Security Tokens and anti-counterfeiting tools. Following this approach, students will have the necessary tools to be a computer scientist at the forefront with the Tokenization of properties, by means of innovative multimedia resources that you will find in the virtual library, which can be accessed from any device with access to the network.







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You will leave the long hours of study and you will acquire a much more effective and simple learning thanks to the Relearning system”

## Module 1. New Fintech Business Models

- 1.1. Fintech Business Models
  - 1.1.1. Unmet needs
  - 1.1.2. Customer expectations
  - 1.1.3. Different Business Models in Fintech: B2C, B2B
- 1.2. Value contribution of Fintechs
  - 1.2.1. Time savings
  - 1.2.2. Cost savings
  - 1.2.3. Improved User Experience
  - 1.2.4. Elimination of entry barriers
- 1.3. Technological changes on which Fintech is based
  - 1.3.1. Big data & advanced analytics
  - 1.3.2. IA
  - 1.3.3. Machine Learning
  - 1.3.4. IOT
  - 1.3.5. Blockchain
- 1.4. Verticals in Fintech
  - 1.4.1. Investments
  - 1.4.2. Foreign exchange and cryptocurrencies
  - 1.4.3. Payments
  - 1.4.4. Loans and financing
  - 1.4.5. Banking
  - 1.4.6. Insurance
- 1.5. Fintech as a startup
  - 1.5.1. Paradigm Shift
  - 1.5.2. Limits
  - 1.5.3. Exponential growth
- 1.6. Phases of Fintech as startups
  - 1.6.1. Seed - MVP
  - 1.6.2. Early - Product Market Fit
  - 1.6.3. Growth
  - 1.6.4. Expansion
  - 1.6.5. Exit

- 1.7. Startups differentiation
  - 1.7.1. Trust
  - 1.7.2. Regulation
  - 1.7.3. Acquisition cost
- 1.8. Fintech in its origins
  - 1.8.1. Startup vs. DAO
  - 1.8.2. Incubators
  - 1.8.3. Spin-Offs
- 1.9. Crowdfunding in Fintechs
  - 1.9.1. The Crowdfunding Concept
  - 1.9.2. Equity Crowdfunding
  - 1.9.3. Crowdlending
  - 1.9.4. ICOs vs STOs
- 1.10. Fintech Statu quo
  - 1.10.1. Challenges
  - 1.10.2. Opportunities
  - 1.10.3. Threats

## Module 2. Asset Tokenization Process

- 2.1. Asset Tokenization
  - 2.1.1. Asset Tokenization
  - 2.1.2. Parallels with traditional emissions
  - 2.1.3. Differences with traditional emissions
- 2.2. Tokenizable projects
  - 2.2.1. Business projects
  - 2.2.2. Community management with tokens
  - 2.2.3. Single asset tokens
- 2.3. Tokens to be issued: Main features
  - 2.3.1. Security tokens and STOs
  - 2.3.2. Utility Tokens and UTOs
  - 2.3.3. NFTs
  - 2.3.4. Differences between tokens and cryptocurrencies and ICOs

- 2.4. Advantages of Tokenization
  - 2.4.1. Democratization of investment
  - 2.4.2. Liquidity
  - 2.4.3. Security/Safety
  - 2.4.4. Transparency
  - 2.4.5. Authenticity
  - 2.4.6. Management of your community
- 2.5. Asset Tokenization Process I: Project conceptualization
  - 2.5.1. The design of the White Paper
  - 2.5.2. Writing a White Paper
  - 2.5.3. Content of a White Paper
- 2.6. Asset Tokenization Process II: Placement of tokens
  - 2.6.1. Target Audience
  - 2.6.2. Presale
  - 2.6.3. Direct placement
- 2.7. Asset Tokenization Process III: Assignment of tokens
  - 2.7.1. Means of Payment
  - 2.7.2. Cold Wallet
  - 2.7.3. Pooled wallet
- 2.8. The secondary token market: Bilateral market
  - 2.8.1. Liquidity for the tokenist
  - 2.8.2. Bilateral trading
  - 2.8.3. Advantages and Disadvantages
- 2.9. The secondary token market: Exchanges
  - 2.9.1. Entry requirements
  - 2.9.2. Characteristics of token trading on the exchange
  - 2.9.3. Advantages and Disadvantages
- 2.10. Valuation of tokens
  - 2.10.1. Market value
  - 2.10.2. Theoretical value
  - 2.10.3. Investment opportunities

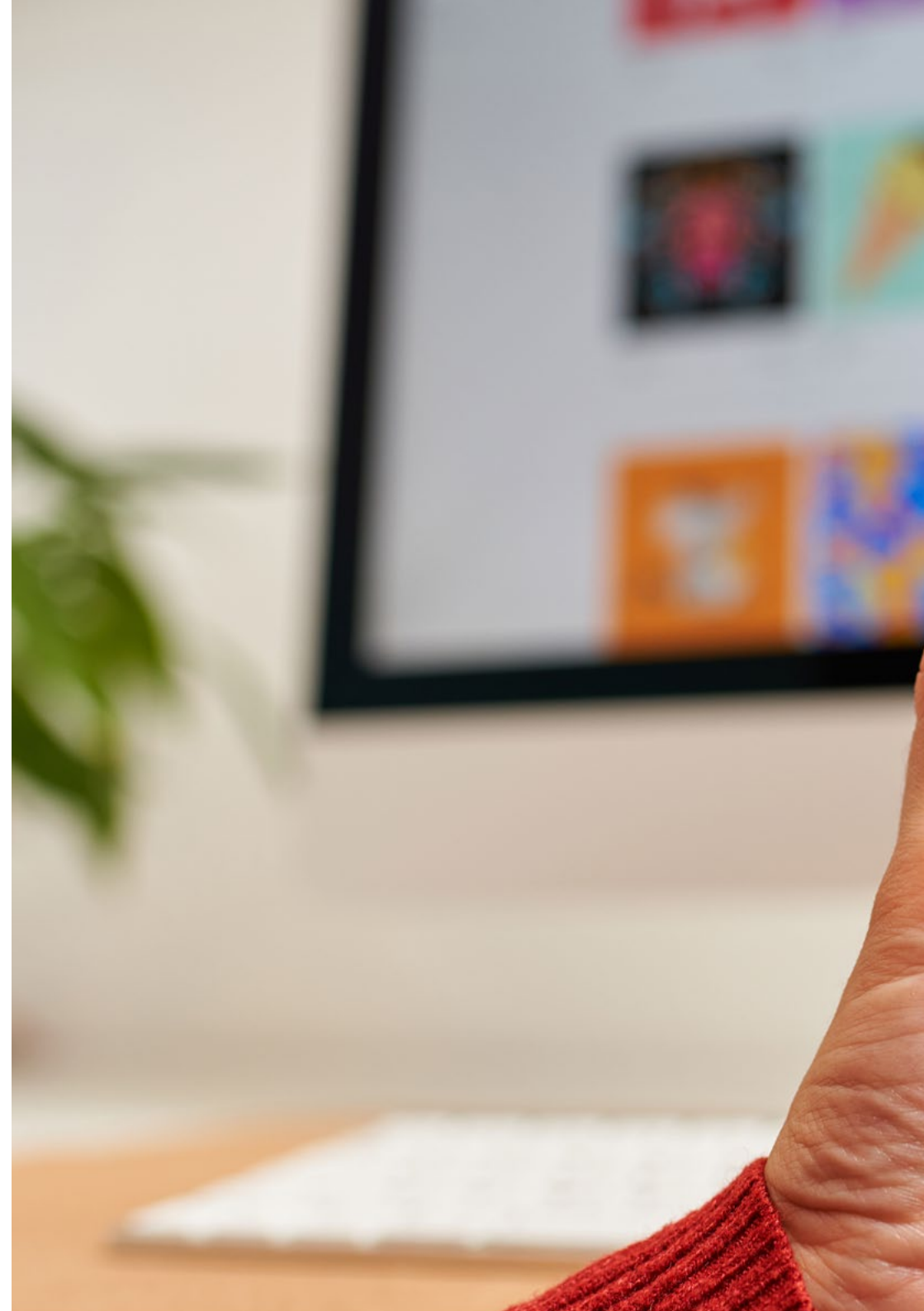
### Module 3. Blockchain Networks for Asset Tokenization

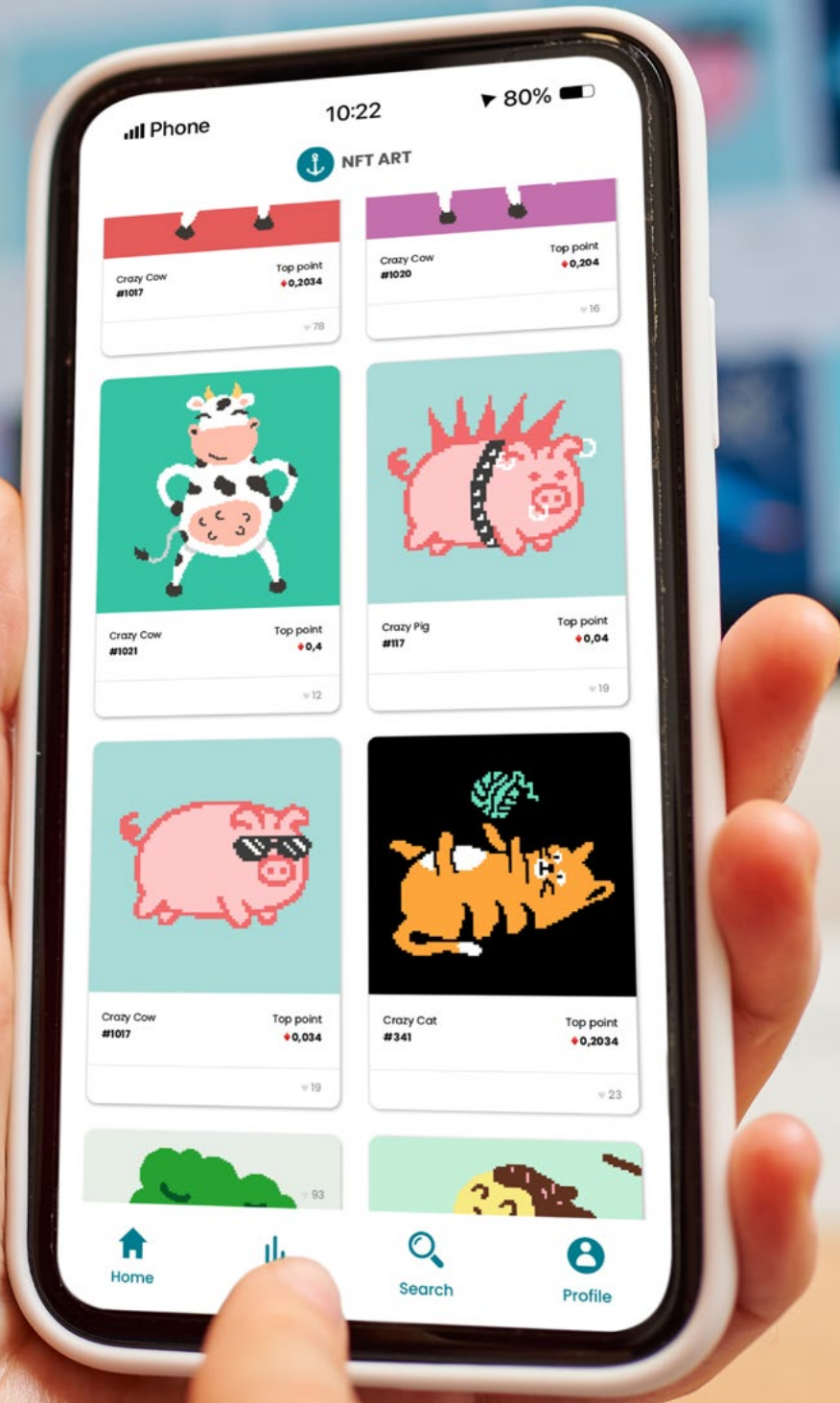
- 3.1. Blockchain Networks for Asset Tokenization
  - 3.1.1. Blockchain for Tokenization
  - 3.1.2. Development of Blockchain Networks
  - 3.1.3. Tipos de Blockchain. y sus características
- 3.2. Blockchain Networks. Blockchain Characteristics of in Asset Tokenization
  - 3.2.1. Benefits of Blockchain Networks
  - 3.2.2. Projects that use them
  - 3.2.3. Costs and speeds
- 3.3. Security in Blockchain Networks
  - 3.3.1. Common vulnerabilities in Blockchain networks and their impact on asset tokenization
  - 3.3.2. Security measures for their protection
  - 3.3.3. Cases of hacks and frauds in projects
- 3.4. Asset Tokenization
  - 3.4.1. Definition of to tokenization and its Connection to Blockchain
  - 3.4.2. Types of Assets that can be tokenized
  - 3.4.3. Advantages and Disadvantages of Asset Tokenization
- 3.5. Type of Tokens
  - 3.5.1. Security Tokens
  - 3.5.2. Utility Tokens
  - 3.5.3. Asset tokens
- 3.6. Technical characteristics of tokens and standards
  - 3.6.1. ERC20 Tokens
  - 3.6.2. ERC721 (NFT's) Tokens
  - 3.6.3. Other standards (ERC1155, ERC721A, ERC4337)
- 3.7. Smart contracts and tokenization
  - 3.7.1. Smart Contracts Smart Contracts
  - 3.7.2. Advantages and Disadvantages of Smart contracts
  - 3.7.3. Use cases of smart contracts in asset tokenization

- 3.8. Bitcoin in Tokenization
  - 3.8.1. Bitcoin in Tokenization Contextualization
  - 3.8.2. Possibilities of Bitcoin in Tokenization
  - 3.8.3. Advantages and Disadvantages of Tokenization
- 3.9. Ethereum in Tokenization
  - 3.9.1. Ethereum in Tokenization Contextualization
  - 3.9.2. Possibilities of Ethereum in Tokenization
  - 3.9.3. Advantages and Disadvantages of Tokenization
- 3.10. EVM Operations
  - 3.10.1. La Ethereum Virtual Machine
  - 3.10.2. Operation
  - 3.10.3. Security and transparency in the execution of smart contracts
  - 3.10.4. Programming Languages

#### Module 4. Means of Payment in Token Trading

- 4.1. Sale and purchase of tokens
  - 4.1.1. Why buy and sell tokens
  - 4.1.2. Acquisition of tokens
  - 4.1.3. Selling tokens
- 4.2. Bank transfers
  - 4.2.1. Advantages and Disadvantages
  - 4.2.2. Payment process
  - 4.2.3. Security Considerations
- 4.3. Credit and debit cards
  - 4.3.1. Advantages and Disadvantages
  - 4.3.2. Payment process
  - 4.3.3. Security Considerations
- 4.4. Cryptocurrencies
  - 4.4.1. Advantages and Disadvantages
  - 4.4.2. Payment process
  - 4.4.3. Security Considerations





- 4.5. Choice of a payment method Factors to consider
  - 4.5.1. Transaction speed
  - 4.5.2. Associated Costs
  - 4.5.3. Security/Safety
  - 4.5.4. Availability
- 4.6. Payment gateways
  - 4.6.1. Payment gateways
  - 4.6.2. Functioning of the payment gateways
  - 4.6.3. Choice of a payment gateway
- 4.7. Token purchase and sale transactions
  - 4.7.1. Token purchase process
  - 4.7.2. Token Sale process
  - 4.7.3. Legal and tax considerations
- 4.8. Token trading platforms (Exchanges)
  - 4.8.1. Token Trading Platforms
  - 4.8.2. Advantages and Disadvantages of using Platforms
  - 4.8.3. Popular Platforms examples
- 4.9. AML (Anti Money Laundering)
  - 4.9.1. Standards and regulations
  - 4.9.2. Procedures and requirements
  - 4.9.3. Weaknesses of AML regulations
- 4.10. Successful token trading Key Factors
  - 4.10.1. Research and choice of the right platform
  - 4.10.1. Verification of seller/buyer authenticity (KYC)
  - 4.10.1. Conducting secure transactions



## Module 5. Security Tokens

- 5.1. Security Tokens
  - 5.1.1. Concept of Financial Asset
  - 5.1.2. Financial Markets
  - 5.1.3. Advantages of Tokenization
- 5.2. Equity security tokens or "cryptocurrencies"
  - 5.2.1. What is a currency?
  - 5.2.2. Advantages of Tokenization
  - 5.2.3. Tokenist Rights and Obligations
- 5.3. Debt security tokens or "cryptocurrencies"
  - 5.3.1. Concept of debt
  - 5.3.2. Advantages of Tokenization
  - 5.3.3. Tokenist Rights and Obligations
- 5.4. Investment Fund Security Tokens
  - 5.4.1. The participating account contract and its participants
  - 5.4.2. Advantages of Tokenization
  - 5.4.3. Tokenist Rights and Obligations
- 5.5. White Paper of a security token
  - 5.5.1. Identification of the issuer
  - 5.5.2. Clauses and disclaimer of liability
  - 5.5.3. The tokenomics of the issue
- 5.6. Base contracts for tokenization
  - 5.6.1. The notarial deed of a company and the shareholders' agreement
  - 5.6.2. Loan contracts Types
  - 5.6.3. Characteristics of the participating account contract
- 5.7. STOs (Security Token Offerings)
  - 5.7.1. General Description of Process
  - 5.7.2. The Project
  - 5.7.3. Communication Campaigns
  - 5.7.4. Presale
  - 5.7.5. Payment and allocation of tokens

- 5.8. Example of debt STO
  - 5.8.1. Purpose of the issue
  - 5.8.2. Tokenomics
  - 5.8.3. Placement process
- 5.9. Example of an STO of a participating account contract
  - 5.9.1. Purpose of the issue
  - 5.9.2. Tokenomics
  - 5.9.3. Placement process
- 5.10. International Regulations applicable to Security Tokens
  - 5.10.1. Entities in charge of market supervision (SECs)
  - 5.10.2. Investor protection directives
  - 5.10.3. Entities involved in token issuance

## Module 6. Utility Tokens

- 6.1. Utility Tokens
  - 6.1.1. Client Management
  - 6.1.2. Differences with respect to a security token
  - 6.1.3. Value creation for the tokenist
- 6.2. Utility Tokens as a mean of payment
  - 6.2.1. Online payments
  - 6.2.2. Advantages of Tokenization
  - 6.2.3. Tokenist Rights and Obligations
- 6.3. Utility Token as an Instrument of Marketing
  - 6.3.1. The customer's link
  - 6.3.2. Advantages of Tokenization
  - 6.3.3. Tokenist Rights and Obligations
- 6.4. Governance tokens
  - 6.4.1. DAO
  - 6.4.2. Advantages of Tokenization
  - 6.4.3. Tokenist Rights and Obligations
- 6.5. Fan Tokens
  - 6.5.1. Fan Phenomenon
  - 6.5.2. Advantages of Tokenization
  - 6.5.3. Tokenist Rights and Obligations

- 6.6. White Paper of an Utility token
    - 6.6.1. Identification of the issuer
    - 6.6.2. Clauses and disclaimer of liability
    - 6.6.3. The tokenomics of the issue
  - 6.7. UTO
    - 6.7.1. General Description of Process
    - 6.7.2. The Project
    - 6.7.3. Communication Campaigns
    - 6.7.4. Presale
    - 6.7.5. Payment and allocation of tokens
  - 6.8. Example of UTO of a token as a means of payment
    - 6.8.1. Purpose of the issue
    - 6.8.2. Tokenomics
    - 6.8.3. Placement process
  - 6.9. Fan Token UTO Example
    - 6.9.1. Purpose of the issue
    - 6.9.2. Tokenomics
    - 6.9.3. Placement process
  - 6.10. Regulations applicable to Utility Tokens
    - 6.10.1. Wage Protection
    - 6.10.2. Consumer protection directives
    - 6.10.3. Supervisory Bodies
- 7.1. NFTs
    - 7.1.1. NFTs
    - 7.1.2. Key Features
    - 7.1.3. NFTs popular examples
  - 7.2. NFTs and the Art World
    - 7.2.1. Changes in the Art Industry
    - 7.2.2. NFTs of Art examples and its market value
    - 7.2.3. NFTs Impact on artists
  - 7.3. NFTs as collectibles
    - 7.3.1. The NFTs as collectibles
    - 7.3.2. Collectible NFTs popular examples and its market value
    - 7.3.3. NFTs and its expanding potential in the collectible market
  - 7.4. Social Impact of NFTs
    - 7.4.1. Social benefits of NFTs
    - 7.4.2. NFTs for Communities Creation
    - 7.4.3. NFTs opportunities to offer to the Art and Culture World
  - 7.5. Advantages and Disadvantages of NFTs
    - 7.5.1. The End of falsifications
    - 7.5.2. Vulnerabilities in the security of NFTs
    - 7.5.3. NFTs and Its Impact on the Environment
  - 7.6. Technology behind NFTs
    - 7.6.1. Blockchain and its role in the creation of NFTs
    - 7.6.2. Smart Contracts and its Use in the creation of NFTs
    - 7.6.3. NFTs Creation and verification
  - 7.7. NFTs Creation and "royalties"
    - 7.7.1. Copyrights
    - 7.7.2. Secondary market control
    - 7.7.3. Transparency and monitoring
  - 7.8. NFT Market
    - 7.8.1. Market platforms
    - 7.8.2. Purchasing Process
    - 7.8.3. Value and requirement
  - 7.9. NFTs in different industries
    - 7.9.1. NFTs in the Music Industry
    - 7.9.2. NFTs in the Sports Industry
    - 7.9.3. NFTs in the Video Game Industry
  - 7.10. The Future of NFTs
    - 7.10.1. Trends in the NFTs Market
    - 7.10.2. Changes in the near future
    - 7.10.3. NFTs Impact on global economy

## Module 7. NFTs of Art and Collectibles

## Module 8. Authenticity Certification with NFTs

- 8.1. NFT concept for luxury goods
  - 8.1.1. Objectives and needs of the luxury sector
  - 8.1.2. Structure of NFT
  - 8.1.3. NFT-compatible networks
- 8.2. Size of the counterfeit market
  - 8.2.1. Secondary and parallel market
  - 8.2.2. Other anti-counterfeiting tools
  - 8.2.3. Size of the market and losses incurred by the brands
- 8.3. NFT as a guarantor of authenticity in the face of counterfeiting
  - 8.3.1. NFT: The only totally unforgeable solution
  - 8.3.2. Integration of NFTs in product certification chains
  - 8.3.3. Verification of authenticity guarantees
- 8.4. Elimination of double sales with CFNs
  - 8.4.1. Double-selling problem in the digital sector
  - 8.4.2. Solutions provided by Blockchain technology
  - 8.4.3. Smart contract modifications to ensure that double sales cannot be made
- 8.5. Sale and purchase process with NFTs
  - 8.5.1. Markets for authenticity NFTs
  - 8.5.2. Independent platforms
  - 8.5.3. NFT Management Wallets
- 8.6. Article traceability
  - 8.6.1. Product traceability
  - 8.6.2. Blockchain options for traceability
  - 8.6.3. Traceability products in blockchain
- 8.7. NFT valuation
  - 8.7.1. Tokenomics of authenticity NFTs
  - 8.7.2. Value of NFT
  - 8.7.3. Residual value of NFTs in consumable products
- 8.8. Use Case 1. Watches
  - 8.8.1. Customer requirements
  - 8.8.2. Residence of product value
  - 8.8.3. Customer benefits through the use of NFTs

- 8.9. Use Case 2. Wine bottles
  - 8.9.1. Customer requirements
  - 8.9.2. Residence of product value
  - 8.9.3. Customer benefits through the use of NFTs
- 8.10. Other possible Use Cases
  - 8.10.1. Application of certificates in other sectors
  - 8.10.2. NFT as a certificate in access management
  - 8.10.3. NFT as a carbon credit certificate

## Module 9. NFTs in the Metaverse, DAO and New Trends

- 9.1. NFTs in the Metaverse
  - 9.1.1. Metaverse concept Features
  - 9.1.2. Importance of the NFTs in the Metaverse
  - 9.1.3. Examples of existing Metaverses
- 9.2. Use of NFTs in the Metaverse
  - 9.2.1. Creation and sale of unique virtual objects
  - 9.2.2. Immersive gaming and entertainment experiences
  - 9.2.3. Possibilities of investing in the Metaverse through NFTs
- 9.3. Economic Impact of the NFTs in the Metaverse
  - 9.3.1. Growth of the industry of NFTs in the Metaverse
  - 9.3.2. Benefits for creators and owners of NFTs
  - 9.3.3. Potential of NFTs to revolutionize the digital economy
- 9.4. DAOs
  - 9.4.1. Definition and Characteristics of a DAO
  - 9.4.2. Operation of a DAO
  - 9.4.3. Differences between a DAO and traditional companies
- 9.5. Examples of DAOs
  - 9.5.1. Successful examples of DAOs in the crypto industry
  - 9.5.2. DAOs for Project Financing
  - 9.5.3. DAOs for the governance of digital communities
- 9.6. Advantages and Disadvantages of DAOs
  - 9.6.1. Advantages of DAOs compared to traditional companies
  - 9.6.2. Disadvantages and risks associated with DAOs
  - 9.6.3. Legal and Regulatory Considerations for DAOs

- 9.7. DAOs and their relationship with NFTs
  - 9.7.1. Benefits and challenges of integrating NFTs into DAOs
  - 9.7.2. NFT Use in DAOs
  - 9.7.3. Examples of DAOs using NFTs in their business model
- 9.8. The trend towards decentralization - Web 3.0. 9.8.1. Concept of Web 3.0. 9.8.2. Differences between Web3 and Web2
  - 9.8.3. Advantages of Decentralization in the Digital World
- 9.9. Trends in Decentralized Finance - DeFi
  - 9.9.1. Definition of DeFi
  - 9.9.2. Benefits of DeFi over traditional finance
  - 9.9.3. Challenges and risks associated with DeFi
- 9.10. New trends with NFTs
  - 9.10.1. Tokenization of physical assets and its relationship with NFTs
  - 9.10.2. The use of NFTs in the creation of digital identities and their impact on privacy
  - 9.10.3. NFTs in sectors such as education, health and environment

## Module 10. Taxation of Tokens

- 10.1. Indirect taxes
  - 10.1.1. Indirect taxes Features
  - 10.1.2. Types and examples of indirect taxes
  - 10.1.3. Indirect taxes applied to tokens
- 10.2. Taxation of the purchase of a token (VAT)
  - 10.2.1. Application of indirect taxes on the different types of tokens
  - 10.2.2. Types, liquidations and deadlines for their presentation
  - 10.2.3. Methods of control by the administration
- 10.3. Direct taxes Relevant features
  - 10.3.1. Direct taxes
  - 10.3.2. Types and examples of Direct taxes
  - 10.3.3. Income Taxes
- 10.4. Wealth Taxes
  - 10.4.1. Concept of the Tax

- 10.4.2. Assets on which Wealth Tax is levied
- 10.4.3. Countries of Application
- 10.5. Other Direct taxes
  - 10.5.1. Features
  - 10.5.2. Examples of these direct taxes
  - 10.5.3. Countries of Application
- 10.6. Taxation of the sale of a token. Income
  - 10.6.1. Application of Direct taxes on the different types of tokens
  - 10.6.2. Different types of token yields
  - 10.6.3. Income
  - 10.6.4. Different global Wealth Taxes
  - 10.6.5. Others
- 10.7. Other Taxes to be applied
  - 10.7.1. Informative declarations
  - 10.7.2. Examples, deadlines and information in informative returns
  - 10.7.3. Other tax matters
- 10.8. International Taxation
  - 10.8.1. International Taxation Principles
  - 10.8.2. European Union
  - 10.8.3. Analysis of different regulations for the same operation
- 10.9. Tax Havens
  - 10.9.1. Features and Types
  - 10.9.2. Prevention and Control of Tax Havens
  - 10.9.3. Influence on cryptoassets
- 10.10. Tax Planning
  - 10.10.1. Tax Planning Concept
  - 10.10.2. Tax planning for individuals and companies
  - 10.10.3. International taxation for cryptoassets (CBDCs) Evolution and trends



06

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





“

*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

“

*At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world”*



*You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.*





*The student will learn to solve complex situations in real business environments through collaborative activities and real cases.*

### A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.

“*Our program prepares you to face new challenges in uncertain environments and achieve success in your career”*

The case method has been the most widely used learning system among the world's leading Information Technology schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question that you are presented with in the case method, an action-oriented learning method. Throughout the course, students will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.



## Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

*In 2019, we obtained the best learning results of all online universities in the world.*

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

This methodology has trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, and financial markets and instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.*

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.



This program offers the best educational material, prepared with professionals in mind:



### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



### Practising Skills and Abilities

They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





#### Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best specialists in the world.



#### Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.





# 07 Certificate

The Professional Master's Degree in Tokenization and NFTs guarantees students, in addition to the most rigorous and up-to-date teaching, the access to a Professional Master's Degree issued by TECH Technological University.



“

*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

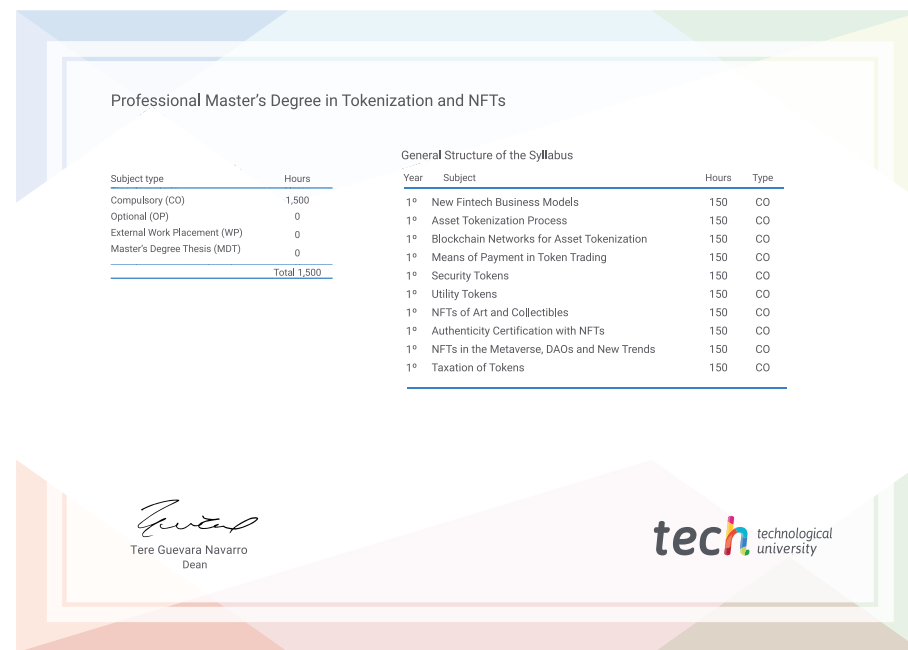
This **Professional Master's Degree in Tokenization and NFTs** contains the most complete and up-to-date academic program on the market.

After the student has passed the assessments, they will receive their corresponding **Professional Master's Degree** issued by **TECH Technological University** via tracked delivery\*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Professional Master's Degree, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Professional Master's Degree in Tokenization and NFTs**

Official N° of Hours: **1,500 h.**



\*Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.



## Professional Master's Degree Tokenization and NFTs

- » Modality: **online**
- » Duration: **12 months.**
- » Certificate: **TECH Technological University**
- » Dedication: **16h/week**
- » Schedule: **at your own pace**
- » Exams: **online**



# Professional Master's Degree

## Tokenization and NFTs

