

Postgraduate Certificate DeFi & NFT Applications on Blockchain



Postgraduate Certificate DeFi & NFT Applications on Blockchain

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitude.com/in/law/postgraduate-certificate/defi-applications-nfts-blockchain

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 18

05

Study Methodology

p. 22

06

Certificate

p. 32

01

Introduction

NFTs are causing a complete break with the traditional conception held by certain sectors. For example, in the art world, world-renowned professionals like Okuda San Miguel have put NFT series up for sale due to the profitability they generate. Meanwhile, in the video game world, users are purchasing NFTs of characters for games that haven't even been released yet. This boom is driven by specific circumstances, which will be explained throughout this program by defining their characteristics, how their market functions, and the methods of creation. All of this will be delivered through an online format with no set hours, allowing students to organize themselves according to their needs and circumstances.





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In this program, you will learn the types and characteristics of NFTs so you can be part of an exponentially growing trend”

Decentralized finance (DeFi) has arrived to revolutionize the economic ecosystem. DeFi refers to transactions that do not rely on financial intermediaries like banks, yet still offer the same services. Therefore, understanding and implementing DeFi generates a wide range of advantages both for the business itself and in relation to its competitors.

In this regard, the program developed by TECH starts with an overview of financial culture, Ethereum, and other technologies such as Binance Smart Chain or Polygon. This serves as an introduction to DeFi and the challenges it faces. It then presents very useful tools for information related to this field. Such as CoinMarketCap and DeFiPulse. Following this, the program defines stablecoins and decentralized platforms like Uniswap and Sushiswap.

The final section of the syllabus is dedicated to NFTs. It first provides an overview of their characteristics and types. Next, it summarizes industries where NFTs have a significant impact, such as design and Fan Tokens. Finally, it lists the most widely used markets. Such as OpenSea and Rarible.

All of this will be offered through a 100% online format, with no set hours, and the entire syllabus will be available from day one. All that is needed is a device with internet access. In this way, students can organize their study schedule according to their circumstances and needs, enhancing their learning experience.

Additionally, among the wide range of multimedia resources available, students will have access to a unique Masterclass led by a renowned international expert in Blockchain. Under their invaluable guidance, graduates will acquire the essential skills and knowledge to excel in this ever-evolving field, supported by the quality standards that TECH is known for.

This **Postgraduate Certificate in DeFi & NFT Applications on Blockchain** contains the most complete and up-to-date program on the market. The most important features include:

- ♦ The development of practical cases presented by experts in DeFi, NFT and Blockchain
- ♦ The graphic, schematic and practical contents with which it is conceived provide scientific and practical information on those disciplines that are essential for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out 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



Enjoy the advanced multimedia tools offered by TECH, which include a supplementary Masterclass led by a true international reference in Blockchain"

“

Enroll in this Postgraduate Certificate and gain access to the challenges faced by DeFi, allowing you to stay ahead of market needs”

The program includes in its teaching staff, professionals from the sector who bring to this program their work experience, in addition to recognized specialists from prestigious reference societies and 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 is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. For this purpose, students will be assisted by an innovative interactive video system created by renowned experts.

Graduates will be able to use Solana professionally. An ecosystem that allows you to develop DeFi applications at an affordable price.

Learn, alongside our instructors, the technology behind Ethereum and how it enables the creation of stablecoins.



02 Objectives

The ultimate goal of this Postgraduate Certificate is for its graduates to become familiar with the latest developments in Blockchain technology. On one hand, they will work with decentralized finance, understanding its challenges, the main information tools, and decentralized platforms. On the other hand, they will learn the characteristics and functioning of NFTs. As well as the processes involved in their creation and the leading markets.



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TECH has developed a comprehensive and extensive syllabus to help you become an NFT expert and maximize its potential”



General Objectives

- ♦ Analyze the different DeFi tools
- ♦ Evaluate new forms of passive income
- ♦ Determine what Open Finance is
- ♦ Examine the characteristics of NFTs



Graduates of this Postgraduate Certificate will work alongside instructors on some of the most widely used platforms, such as Uniswap and Sushiswap"





Specific Objectives

- ♦ Evaluate the importance of Stable Coins
- ♦ Examine Maker, Augur and Gnosis protocol
- ♦ Determine the AAVE protocol
- ♦ Identify the importance of Uniswap
- ♦ Study the Sushiswap philosophy in depth
- ♦ Analyze dY/dX and Synthetix
- ♦ Identify the best markets for NFT exchange

03

Course Management

TECH provides students with a faculty that is actively engaged in the most important cryptocurrency markets. Therefore, they are up to date with the fluctuations that occur. In this sense, graduates will not only receive theoretical material on DeFi, NFTs, or the main exchange platforms, but they will also be provided with up-to-date information on the status of various cryptocurrencies and other Blockchain technologies.



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If you are new to the world of cryptocurrencies, we recommend starting with stablecoins like USDC or USDT. The instructors at TECH will teach you how to work with them”

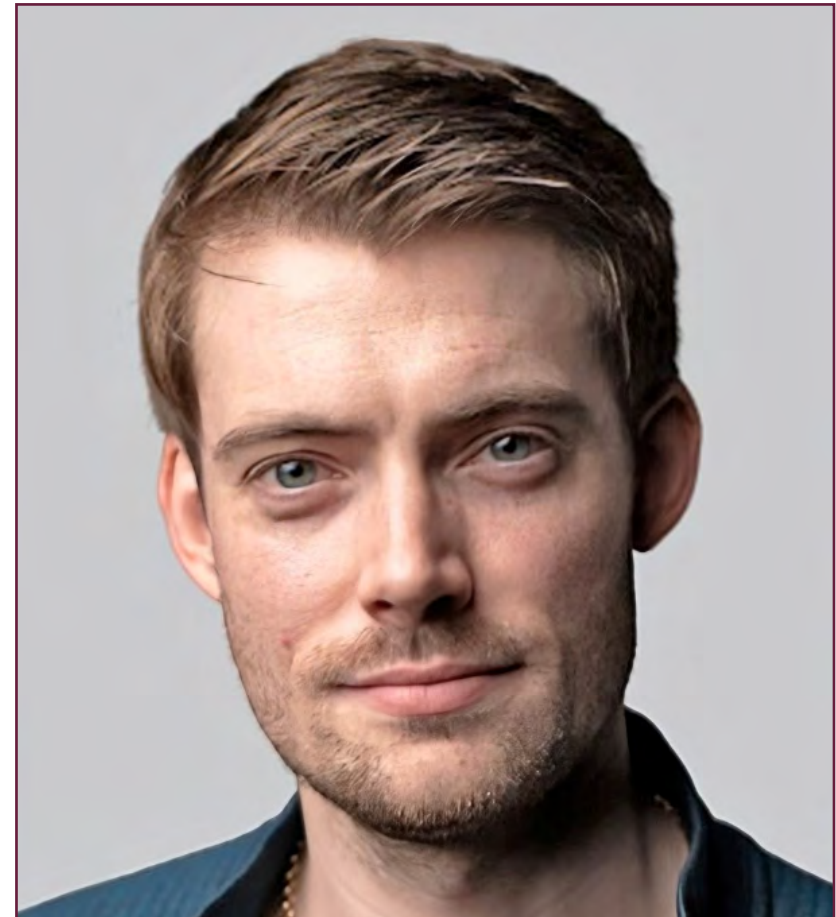
International Guest Director

Chris Sutton is a leading professional with extensive experience in the field of **technology** and **finance**, specializing in the **Blockchain** area. In fact, he has held the senior position of **Director** of the **Blockchain and Digital Assets Department** at **Mastercard**. In addition, he has been the **Founder** of the consulting firm **N17 Capital** in which he offers advice to companies in the field of **Blockchain** and **digital assets**. Therefore, one of his functions has been to identify the components that make up these new tools, analyze them and create work strategies.

His professional experience has included high-level roles in leading companies in the sector, such as **Oasis Pro Market** where he has worked as **Director of Blockchain services**. In addition, he has worked as **Mergers and Acquisitions Product Manager** at **Cisco**, and as **Product Manager** at **IBM**. These positions have allowed him to stand out internationally for his ability to **lead teams**, **develop innovative strategies** and **manage large-scale projects**.

Throughout his career, he has participated in important **technological and financial events**. In this sense, Chris Sutton has given **presentations** and has been part of **international panels** along with other leading experts in this sector. Therefore, on the occasion of the **15th. anniversary** of the **white paper on Bitcoin**, he participated in the events of the **FinTech week** in **Hong Kong**. He also presented his knowledge at a conference organized by **Mastercard**, in **Dubai**, on **banking in the digital era** and the **the impact of digital assets**. Likewise, his analysis have focused on delving into the history, principles and future of the **Blockchain**.

In short, his strategic vision and his outstanding skills in **programming** and **algorithms** have been key to his success in the **International market** consolidating him as a reference in his field.



Mr. Sutton, Chris

- Director of *Blockchain* and Digital Assets at Mastercard, Miami, USA
- Founder of N17 Capital
- Director of *Blockchain* Services at Oasis Pro Market
- Mergers and Acquisitions Product Manager at Cisco
- Product Manager at IBM
- Contributor at Cointelegraph
- Master's Degree in Financial Systems Engineering from University College London
- Bachelor's Degree in Computer Science from Florida International University

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Thanks to TECH, you will be able to learn with the best professionals in the world”

Management



Mr. Torres Palomino, Sergio

- ♦ IT Engineer with expertise in Blockchain
- ♦ Blockchain Lead at Telefónica
- ♦ Blockchain Architect at Signeblock
- ♦ Blockchain Developer at Blocknitive
- ♦ Writer and Publisher at O'Reilly Media Books
- ♦ Professor in postgraduate studies and Blockchain related courses
- ♦ Degree in Computer Engineering from CEU San Pablo University
- ♦ Master's Degree in Big Data Architecture
- ♦ Master's Degree in Big Data and Business Analytics

Professors

Mr. Callejo González, Carlos

- ♦ CEO and Founder of Block Impulse
- ♦ Chief Technology Officer at Stoken Capital
- ♦ Advisor at Crypto Actual Club
- ♦ Advisor in Cryptocurrencies for All Plus
- ♦ Master's Degree in Applied Blockchain
- ♦ Superior Degree in Information Systems and Telecommunications



04

Structure and Content

The structure of the Postgraduate Certificate in DeFi Applications & NFTs on Blockchain is clearly divided into two distinct parts. The first part focuses on all aspects of DeFi, It provides a general framework for understanding them and delves deeper into specific tools and platforms. The second part explores the NFT ecosystem, offering the necessary knowledge to create and trade NFTs. Both parts include the study of real-life cases, which will facilitate the assimilation of the learning process.



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*This Postgraduate Certificate program
includes the creation of customized
NFT sales platforms”*

Module 1. Blockchain and its New Applications: DeFi and NFT

- 1.1. Financial Culture
 - 1.1.1. Evolution of Money
 - 1.1.2. FIAT Money vs. Decentralized Money
 - 1.1.3. Digital Banking vs. Open Finance
- 1.2. Ethereum
 - 1.2.1. Technology
 - 1.2.2. Decentralized Money
 - 1.2.3. Stable Coins
- 1.3. Other Technologies
 - 1.3.1. Binance Smart Chain
 - 1.3.2. Polygon
 - 1.3.3. Solana
- 1.4. DeFi (Decentralized Finance)
 - 1.4.1. DeFi
 - 1.4.2. Challenges
 - 1.4.3. Open Finance vs. DeFi
- 1.5. Information Tools
 - 1.5.1. Metamask and Decentralized Wallets
 - 1.5.2. CoinMarketCap
 - 1.5.3. DefiPulse
- 1.6. Stable Coins
 - 1.6.1. Protocol Maker
 - 1.6.2. USDC, USDT, BUSD
 - 1.6.3. Forms of Collateralization and Risks
- 1.7. Exchanges and Decentralized Exchanges and Platforms (DEX)
 - 1.7.1. Uniswap
 - 1.7.2. SushiSwap
 - 1.7.3. AAVE
 - 1.7.4. dYdX / Synthetix



- 1.8. NFT Ecosystem (Non-Fungible Tokens)
 - 1.8.1. The NFT
 - 1.8.2. Typology
 - 1.8.3. Characteristics
- 1.9. Capitulation of Industries
 - 1.9.1. Design Industry
 - 1.9.2. Fan Token Industry
 - 1.9.3. Project Financing
- 1.10. NFT Markets
 - 1.10.1. Opensea
 - 1.10.2. Rarible
 - 1.10.3. Customized Platforms



Students in this Postgraduate Certificate will receive the necessary guidelines to secure funding that will allow them to start projects related to NFTs"

05

Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



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TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

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*At TECH you will NOT have live classes
(which you might not be able to attend)”*



The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

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TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want”

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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



A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.



As such, the best educational materials, thoroughly prepared, will be available in this program:



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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

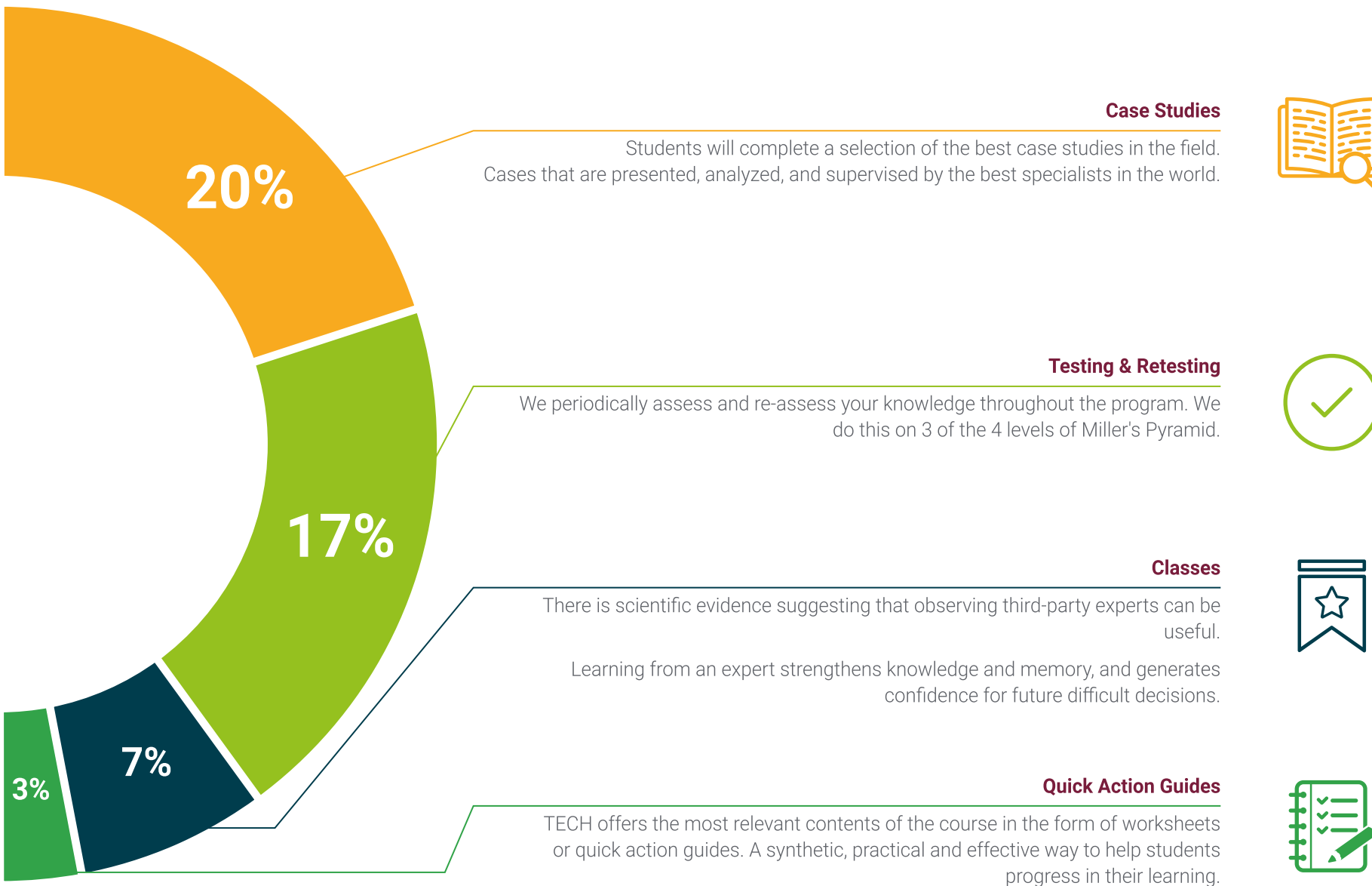
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





06 Certificate

This Postgraduate Certificate in DeFi & NFT Applications on Blockchain guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the Postgraduate Certificate issued by TECH Global University.



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

This private qualification will allow you to obtain a diploma for the **Postgraduate Certificate in DeFi & NFT Applications on Blockchain** endorsed by TECH Global University, the world's largest online university.

TECH Global University, is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

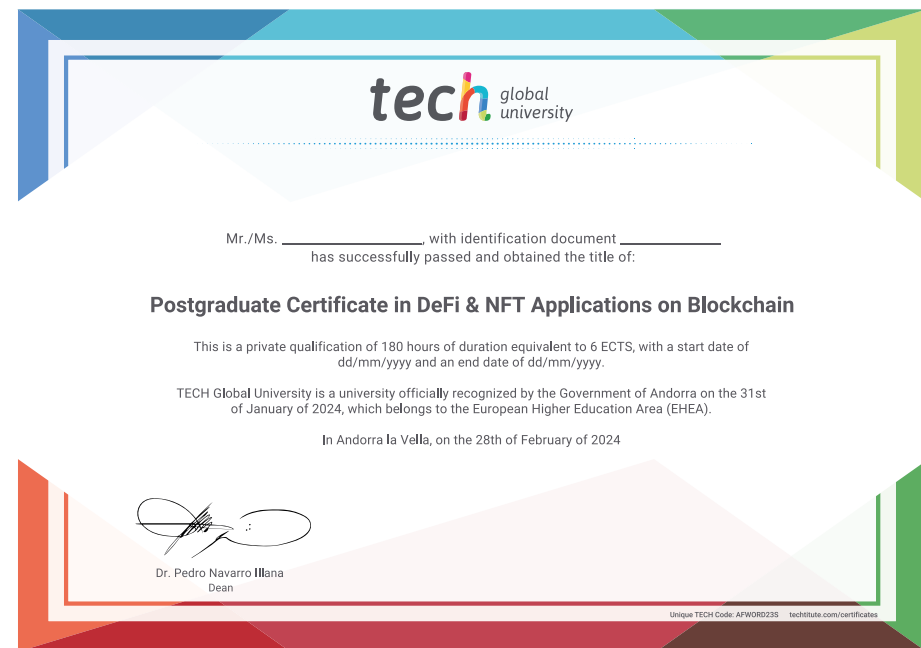
This **TECH Global University** private qualification, is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

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