



# Postgraduate Diploma Blockchain, DeFi and NFT

» Modality: online» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

» Target Group: University Graduates and Undergraduates who have previously completed any degree in the field of Social and Legal Sciences, Administrative and Business Sciences, as well as those graduates from the world of Crypto-Gaming and Blockchain Economy interested in the industrial field

 $We bsite: {\color{blue}www.techtitute.com/pk/school-of-business/postgraduate-diploma/postgraduate-diploma-block chain-defi-nft}$ 

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# 01 **Welcome**

The development of Blockchain technology and the multiple possibilities that have arisen from its application in different industries has made it possible to create complex computer systems that provide sectors such as gaming with the opportunity to develop projects where their players can obtain benefits in the form of digital currencies without intermediaries. This has been possible mainly thanks to the implementation of DeFi and the use of NFTs as an essential element in Play to Earn. For this reason, and in view of the incessant labor demand that currently exists for professionals who master this field, TECH has designed a complete program that is perfect for this purpose. This is a 100% online experience through which the graduate will be able to obtain a comprehensive knowledge on the use of blockchain technology in digital projects based on Decentralized Finance, as well as in the mastery of NFTs as a unit of value in the Crypto environment.









# tech 08 | Why Study at TECH?

#### At TECH Technological University



#### **Innovation**

The university offers an online learning model that balances the latest educational technology with the most rigorous teaching methods. A unique method with the highest international recognition that will provide students with the keys to develop in a rapidly-evolving world, where innovation must be every entrepreneur's focus.

"Microsoft Europe Success Story", for integrating the innovative, interactive multi-video system.



#### The Highest Standards

Admissions criteria at TECH are not economic. Students don't need to make a large investment to study at this university. However, in order to obtain a qualification from TECH, the student's intelligence and ability will be tested to their limits. The institution's academic standards are exceptionally high...

95%

of TECH students successfully complete their studies



### Networking

Professionals from countries all over the world attend TECH, allowing students to establish a large network of contacts that may prove useful to them in the future.

+100000

+200

executives prepared each year

different nationalities



#### **Empowerment**

Students will grow hand in hand with the best companies and highly regarded and influential professionals. TECH has developed strategic partnerships and a valuable network of contacts with major economic players in 7 continents.

+500

collaborative agreements with leading companies



#### **Talent**

This program is a unique initiative to allow students to showcase their talent in the business world. An opportunity that will allow them to voice their concerns and share their business vision.

After completing this program, TECH helps students show the world their talent.



#### **Multicultural Context**

While studying at TECH, students will enjoy a unique experience. Study in a multicultural context. In a program with a global vision, through which students can learn about the operating methods in different parts of the world, and gather the latest information that best adapts to their business idea.

TECH students represent more than 200 different nationalities.



#### **Analysis**

TECH explores the student's critical side, their ability to

TECH strives for excellence and, to this end, boasts a series

of characteristics that make this university unique:

Why Study at TECH? | 09 tech



#### Learn with the best

In the classroom, TECH's teaching staff discuss how they have achieved success in their companies, working in a real, lively, and dynamic context. Teachers who are fully committed to offering a quality specialization that will allow students to advance in their career and stand out in the business world.

Teachers representing 20 different nationalities.



#### **Economy of Scale**

TECH is the world's largest online university. It currently boasts a portfolio of more than 10,000 university postgraduate programs. And in today's new economy, volume + technology = a groundbreaking price. This way, TECH ensures that studying is not as expensive for students as it would be at another university.



At TECH, you will have access to the most rigorous and up-to-date case analyses in academia"



question things, their problem-solving skills, as well as their interpersonal skills.



#### **Academic Excellence**

TECH offers students the best online learning methodology. The university combines the Relearning method (postgraduate learning methodology with the best international valuation) with the Case Study. Tradition and vanguard in a difficult balance, and in the context of the most demanding educational itinerary.





# tech 12 | Why Our Program?

This program will provide you with a multitude of professional and personal advantages, among which we highlight the following:



#### A Strong Boost to Your Career

By studying at TECH, students will be able to take control of their future and develop their full potential. By completing this program, students will acquire the skills required to make a positive change in their career in a short period of time.

70% of students achieve positive career development in less than 2 years.



# Develop a strategic and global vision of the company

TECH offers an in-depth overview of general management to understand how each decision affects each of the company's different functional fields.

Our global vision of companies will improve your strategic vision.



### Consolidate the student's senior management skills

Studying at TECH means opening the doors to a wide range of professional opportunities for students to position themselves as senior executives, with a broad vision of the international environment.

You will work on more than 100 real senior management cases.



### You will take on new responsibilities

The program will cover the latest trends, advances and strategies, so that students can carry out their professional work in a changing environment.

45% of graduates are promoted internally.



#### Access to a powerful network of contacts

TECH connects its students to maximize opportunities. Students with the same concerns and desire to grow. Therefore, partnerships, customers or suppliers can be shared.

You will find a network of contacts that will be instrumental for professional development.



#### Thoroughly develop business projects.

Students will acquire a deep strategic vision that will help them develop their own project, taking into account the different fields in companies.

20% of our students develop their own business idea.



#### Improve soft skills and management skills

TECH helps students apply and develop the knowledge they have acquired, while improving their interpersonal skills in order to become leaders who make a difference.

Improve your communication and leadership skills and enhance your career.



#### You will be part of an exclusive community

Students will be part of a community of elite executives, large companies, renowned institutions, and qualified teachers from the most prestigious universities in the world: the TECH Technological University community.

We give you the opportunity to study with a team of world-renowned teachers.





# tech 16 | Objectives

TECH Technological University makes the goals of their students their own goals too. Working together to achieve them.

The Postgraduate Diploma in Blockchain, DeFi and NFT will enable the student to:



Identify the components of Blockchain Technology



Choose and manage a Wallet (Digital Wallet)



Determine the advantages of Blockchain in entrepreneurship projects.

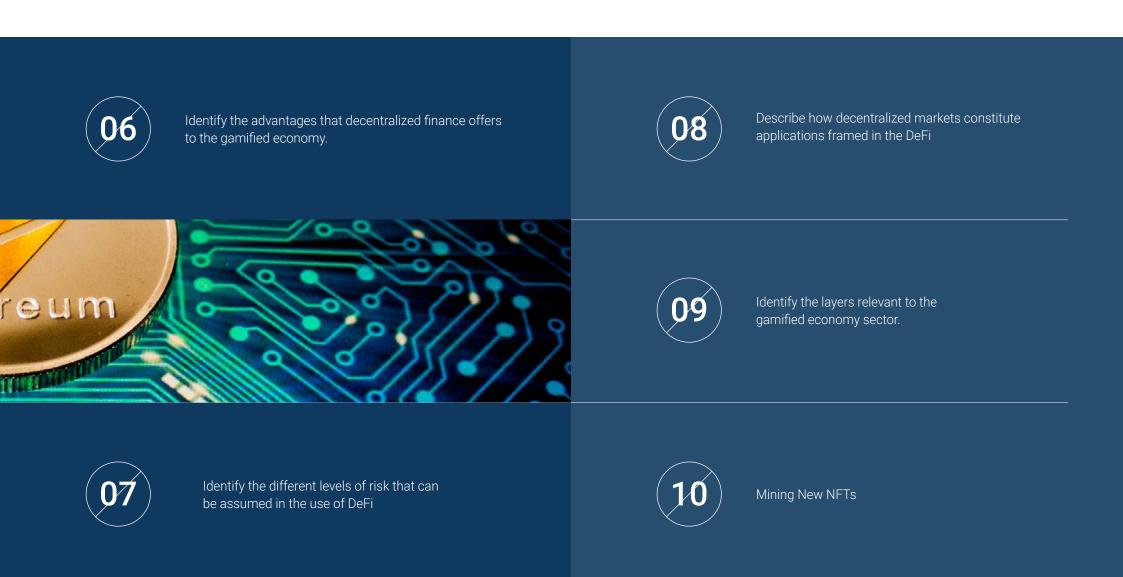




Select types of ad hoc networks with the proposed objectives when planning a gamified economy project.



Acquire the necessary knowledge to make use of DeFi-based projects.





Determine the properties of NFT



Generate innovation strategies based on NFT technology



Introducing NFT in gamified economies







Understand the functioning of the NFT mining system in gamified economies



Identify the value of an NFT in the marketplace



Employing NFT valorization strategies





## tech 22 | Structure and Content

#### **Syllabus**

The Syllabus of this Postgraduate
Diploma in Blockchain, DeFi and NFT has
been developed based on the current
requirements of the business sector,
adapting its contents to the demands
of labor demand. In this way, TECH
guarantees a highly enabling academic
experience in which, in addition to
acquiring the most comprehensive and
specialized knowledge, the graduate will
be prepared to immediately enter the
virtual environment market.

Through the 450 hours of training you will be able to delve into the intricacies of the gaming environment and the leap that digital scenarios have taken with the inclusion of new technologies based on Decentralized Finance. It will also focus on economic management through cryptocurrencies and NFTs, with special emphasis on international legislation and regulations to be taken into account when undertaking a project of this type.

Finally, the program includes the latest information related to the business models that have obtained the best results so far. In this section the graduate will be able to study use cases, being able to implement the techniques used by industry giants to their business strategies.

In this way you will acquire a very high degree of specialization, at the level of the best experts in this field. In addition, including this degree in your resume will open the doors to a more prosperous and successful working future, in which you will be able to achieve even your most ambitious professional goals. It is, therefore, a unique academic opportunity to become the next Andreas M.

Antonopoulos in only 6 months of training and 100% online

This Postgraduate Diploma takes place over 6 months and is divided into 3 modules:

Module 1 Blockchain

Module 2 DeFi

Module 3 NFT



#### Where, When and How is it Taught?

TECH Technological University offers you the possibility to study this Postgraduate Diploma in Blockchain, DeFi and NFT completely online. Throughout the 6 months of the educational program, you will be able to access all the contents of this program at any time, allowing you to self-manage your study time.

A unique, key, and decisive educational experience to boost your professional development and make the definitive leap.

## tech 24 Structure and Content

#### Module 1. Blockchain 1.3. Types of Blockchain 1.4. Types of Networks 1.1. Blockchain 1.2. Blockchain Technologies 1.1.1. Blockchain. 1.2.1. Bitcoin Blockchain 1.3.1. Public Chain 1.4.1. Centralized Network 1.1.2. The New Blockchain Economy 1.2.2. Validation Process, Computational Power 1.3.2. Private Chain 1.4.2. Distributed Network 1.1.3. Decentralization as the Foundation of the 1.2.3. Hash 1.3.3. Hybrid or Federated Chain 1.4.3. Decentralized Network Blockchain Economy. 1.6. Wallets 1.7. The Blockchain Economy 1.8. Security/Safety 1.5. Smart Contracts 1.8.1. Revolution in Security Systems 1.5.1. Smart Contracts 1.6.1. Wallets 1.7.1. Advantages of the Blockchain Économy 1.5.2. Process of Generating a Smart Contract 1.6.2. Usefulness and Importance of a Wallet 1.7.2. Risk Level 1.8.2. Absolute Transparency 1.5.3. Examples and Applications of Smart Contract 1.6.3. Hot & Cold Wallet 1.7.3. Gas Fee 1.8.3. Attacks to the Blockchain 1.9. Tokenization 1.10. Legal Aspects 1.10.1. How Architecture Affects Regulatory Capacity 1.9.1. Tokens 1.9.2. Tokenization 1.10.2. Jurisprudence 1.10.3. Current Legislation on Blockchain 1.9.3. Tokenized Models Module 2. DeFi 2.4. Decentralized Exchanges 2.1. DeFi 2.2. Market Decentralization 2.3. Components DeFi 2.4.1. Exchange of Tokens 2.1.1. DeFi 2.2.1. Economic Advantages 2.3.1. Layer 0 2.1.2. Origin 2.2.2. Creation of Financial Products 2.3.2. Software Protocol Layer 2.4.2. Adding Liquidity 2.2.3. Loans of DeFi 2.3.3. Application Layer and Aggregation Layer 2.4.3. Eliminating Liquidity 2.1.3. Criticism 2.6. Keys 2.5. DeFi Markets 2.7. Differences with Other Systems 2.8. Risk to Consider 2.6.1. Yield Farming 2.7.1. Traditional 2.8.1. Incomplete Decentralization 2.5.1. MarketDAO 2.5.2. Argus Prediction Market 2.6.2. Liquidity Mining 2.7.2. Fintech 2.8.2. Security/Safety 2.8.3. Usage Errors 2.5.3. Ampleforth 2.6.3. Componibility 2.7.3. Comparison 2.9. DeFi Applications 2.10. Projects Under Development 2.10.1. AAVE 2.9.1. Loans 2.9.2. Trading 2.10.2. DydX 2.10.3. Money on Chain 2.9.3. Derivatives

Module 3. NFT			
<ul><li>3.1. NFT</li><li>3.1.1. NFTs</li><li>3.1.2. NFT Linkage and Blockchain</li><li>3.1.3. Creation of NFT</li></ul>	<ul><li>3.2. Creating an NFT</li><li>3.2.1. Design and Content</li><li>3.2.2. Generation</li><li>3.2.3. Metadata and Freeze Metada</li></ul>	<ul> <li>3.3. NFT Sales Options in Gamified Economies</li> <li>3.3.1. Direct Sales</li> <li>3.3.2. Auction</li> <li>3.3.3. Whitelist</li> </ul>	<ul><li>3.4. NFT Market Research</li><li>3.4.1. Opensea</li><li>3.4.2. Immutable Marketplace</li><li>3.4.3. Gemini</li></ul>
<ul> <li>3.5. NFT Monetization Strategies in Gamified Economies</li> <li>3.5.1. Value in Use</li> <li>3.5.2. Aesthetic Value</li> <li>3.5.3. Actual Value</li> </ul>	<ul> <li>3.6. NFT Monetization Strategies in Gamified Economies: Mining</li> <li>3.6.1. NFT Mined</li> <li>3.6.2. Merge</li> <li>3.6.3. Burn</li> </ul>	<ul> <li>3.7. NFT Monetization Strategies in Gamified Economies:         Consumables</li> <li>3.7.1. NFT Consumable</li> <li>3.7.2. NFT Envelopes</li> <li>3.7.3. Quality of NFT</li> </ul>	3.8. Analysis of Gamified Systems Based on NFT 3.8.1. Alien Worlds 3.8.2. Gods Unchained 3.8.3. R-Planet
<ul> <li>3.9. NFT as an Investment and Labor Incentive</li> <li>3.9.1. Investment Participation Privileges</li> <li>3.9.2. Collections Linked to Specific Dissemination Work</li> <li>3.9.3. Sum of Forces</li> </ul>	3.10. Areas of Innovation in Development 3.10.1. Music at NFT 3.10.2. NFT Video 3.10.3. NFT Books		



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.





# tech 28 | Methodology

# TECH Business School uses the 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.





This program prepares you to face business challenges in uncertain environments and achieve business success.



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

#### A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch to present executives with challenges and business decisions at the highest level, whether at the national or international level. 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 business reality is taken into account.



You will learn, through collaborative activities and real cases, how to solve complex situations in real business environments"

The case method has been the most widely used learning system among the world's leading business 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 we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They must integrate all their knowledge, research, argue and defend their ideas and decisions.

# tech 30 | Methodology

### 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.

Our online system will allow you to organize your time and learning pace, adapting it to your schedule. You will be able to access the contents from any device with an internet connection.

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 online business school is the only one in the world licensed to incorporate 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.



## Methodology | 31 **tech**

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. With this methodology we have 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, markets, and financial 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 specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to 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.



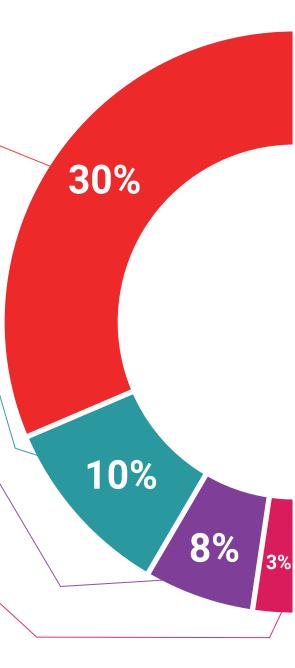
#### **Management Skills Exercises**

They will carry out activities to develop specific executive competencies in each thematic area. Practices and dynamics to acquire and develop the skills and abilities that a high-level manager needs to develop in the context of the globalization we live in.



#### **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 senior management 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.

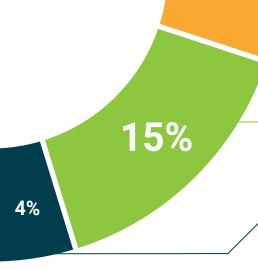


This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

#### **Testing & Retesting**

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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.

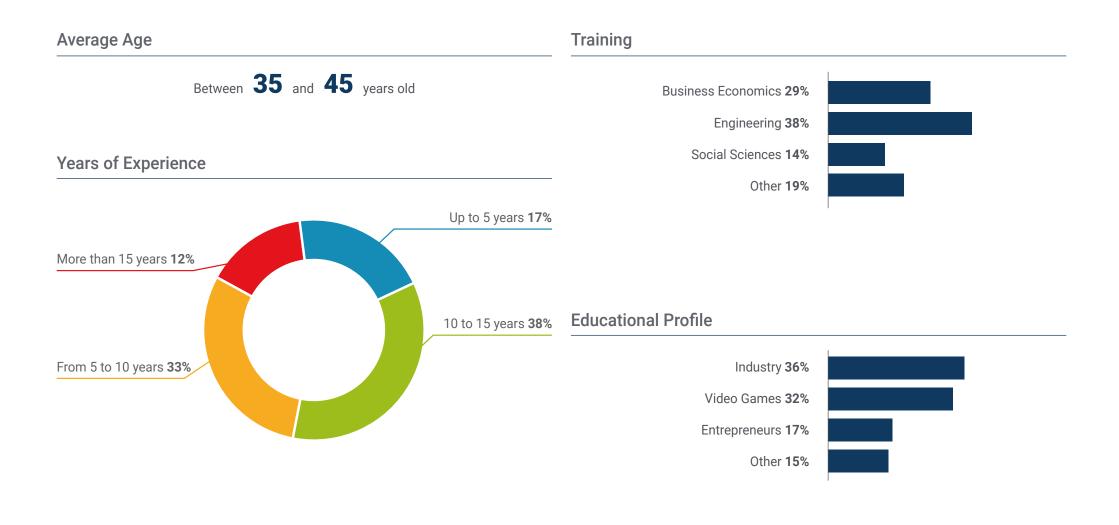


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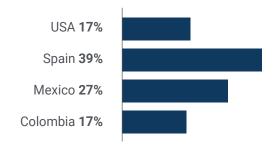




## tech 36 | Our Students' Profiles



## **Geographical Distribution**



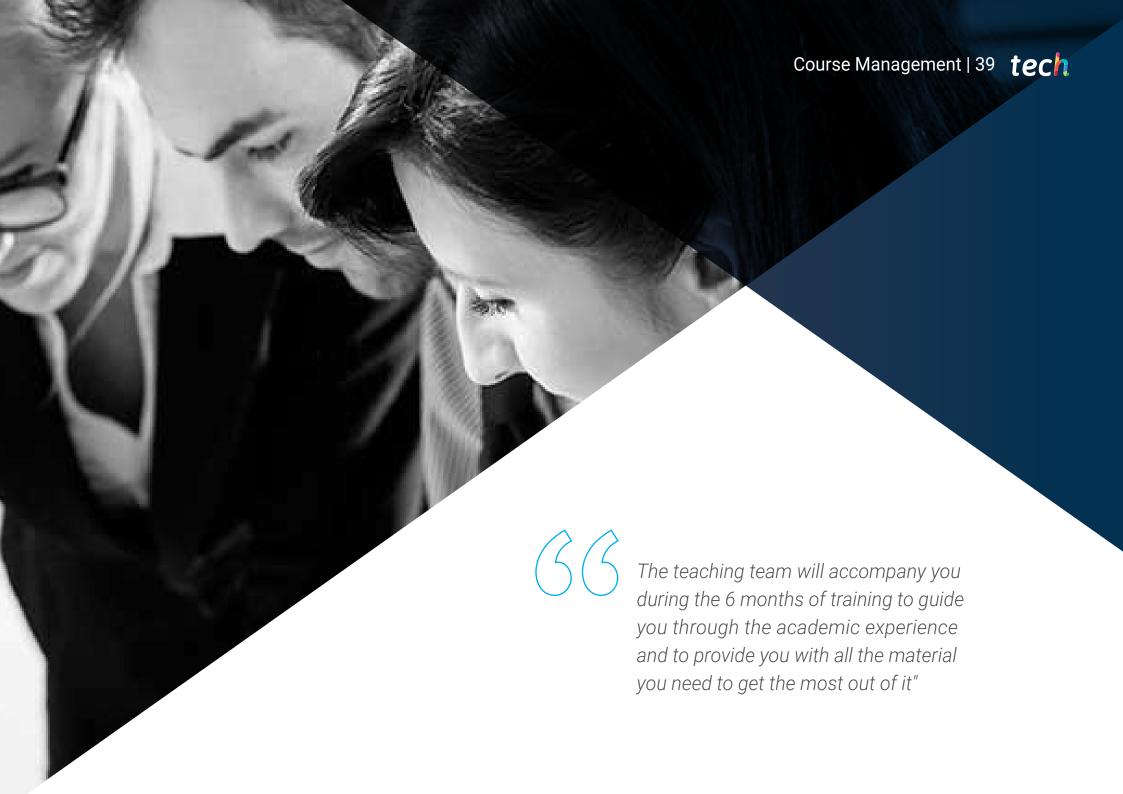


# **Roberto Gamboa**

#### **Chief Operating Officer**

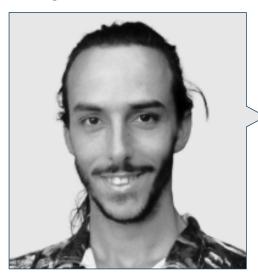
"The rapid growth of the digital industry and the continuous advances being made in this area make it difficult for us to keep up to date with all of them. For that reason, having the ability to access a program like this, which gives us the opportunity to not only update our knowledge, but to delve into comprehensive and unique information, is incredible. In my case, it has allowed me to make a difference through a professional practice of the highest level and based on technological innovation"





# tech 40 | Course Management

### Management



# Mr. Olmo Cuevas, Alejandro

- Fundador de Seven Moons Studios Blockchain Gaming
- Founder of the Niide project
- Game designer and Blockchain economies for video games
- Writer of fantastic narrative and poetic prose

#### **Professors**

#### Mr. Olmo Cuevas, Víctor

- Co-founder, game designer and game economist at Seven Moons Studios Blockchain Gaming
- Web designer and professional video game player
- Professional Online Poker Player and Teacher
- Graphic Designer at Arvato Services Bertelsmann
- Project Analyst and Investor at Crypto Play to Earn Gaming Scene
- Chemical laboratory technician
- Graphic Designer







# tech 44 | Impact on Your Career

Are you ready to take the leap?
Excellent professional development awaits you

TECH's Blockchain, DeFi and NFT Postgraduate Diploma is an intensive program that prepares you to face challenges and business decisions in the gaming environment. The main objective is to promote your personal and professional growth. Helping you achieve success.

If you want to improve yourself, make a positive change at a professional level, and network with the best, then this is the place for you.

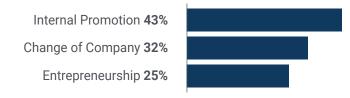
The significant leap in quality that you will achieve with this program will increase your chances of achieving a significant salary increase, at the level of top quality managers.

Would you like to delve into the keys to NFTs as an investment and work incentive? Then opt for a program like this one, which will give you everything you need to achieve it.

### Time of Change



#### Type of change



# Salary increase

The completion of this program represents a salary increase of more than **25.3%** for our students.

Salary before

\$53,500

A salary increase of

25.3%

Salary after

\$66,400





# tech 48 | Benefits for Your Company

Developing and retaining talent in companies is the best long-term investment.



#### Growth of talent and intellectual capital

The professional will introduce the company to new concepts, strategies, and perspectives that can bring about significant changes in the organization.



# Retaining high-potential executives to avoid talent drain

This program strengthens the link between the company and the professional and opens new avenues for professional growth within the company.



## **Building agents of change**

You will be able to make decisions in times of uncertainty and crisis, helping the organization overcome obstacles.



## Increased international expansion possibilities

Thanks to this program, the company will come into contact with the main markets in the world economy.





# **Project Development**

The professional can work on a real project or develop new projects in the field of R & D or business development of your company.



### Increased competitiveness

This program will equip students with the skills to take on new challenges and drive the organization forward.





# tech 52 | Certificate

This **Postgraduate Diploma in Blockchain, DeFi and NFT** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Diploma** issued by **TECH Technological University** via tracked delivery\*.

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

Title: Postgraduate Diploma in Blockchain, DeFi and NFT Official N° of Hours: **450** h.



<sup>\*</sup>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.



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» Modality: online

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» Certificate: TECH Technological University

» Dedication: 16h/week

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» Exams: online

# Postgraduate Diploma

Blockchain, DeFi and NFT

