

# Postgraduate Certificate

## Blockchain: Key to Building a Decentralized Metaverse



## Postgraduate Certificate Blockchain: Key to Building a Decentralized Metaverse

- » Modality: online
- » Duration: 6 weeks
- » 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 of the programs in the fields of Social and Legal Sciences, Administration and Business Sciences

Website: [www.techtute.com/in/school-of-business/postgraduate-certificate/blockchain-key-building-decentralized-metaverse](http://www.techtute.com/in/school-of-business/postgraduate-certificate/blockchain-key-building-decentralized-metaverse)

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# 01 Welcome

Blockchain technology has become a key tool for building a decentralized and secure Metaverse, allowing users to interact and share content in a virtual environment without concerns about the privacy and security of their data. This 100% online program TECH Blockchain: Key to Building a Decentralized Metaverse is of great importance for professionals interested in understanding and applying the latest technology trends. Thanks to its focus on topics such as Bitcoin, public and private Blockchains, the value of data, decentralization and automation of the Metaverse, DAO, tokenization, economics and finance, digital identity, Smart Contracts and decentralized applications, among other relevant topics for the future of business and technology. Being a 100% online program, the participant will have the ease of doing it at their own pace and with the convenience of choosing from where, how and when to do it.



**Blockchain: Key to Building a Decentralized Metaverse**  
TECH Technological University



“

*If you want to keep up to date with the latest technology trends and apply them to your business and projects, this 100% online university program is for you”*

02

# Why Study at TECH?

TECH is the world's largest 100% online business school. It is an elite business school, with a model based on the highest academic standards. A world-class center for intensive managerial skills education.



“

*TECH is a university at the forefront of technology, and puts all its resources at the student's disposal to help them achieve entrepreneurial success"*

## 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**

executives prepared each year

**+200**

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.



TECH strives for excellence and, to this end, boasts a series of characteristics that make this university unique:



### Analysis

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TECH explores the student's critical side, their ability to question things, their problem-solving skills, as well as their interpersonal skills.



### Academic Excellence

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TECH offers students the best online learning methodology. The university combines the *Relearning* methodology (the most internationally recognized postgraduate learning methodology) with Harvard Business School case studies. A complex balance of traditional and state-of-the-art methods, within the most demanding academic framework.



### Economy of Scale

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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.



### Learn with the best

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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.



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

03

# Why Our Program?

Studying this TECH program means increasing the chances of achieving professional success in senior business management.

It is a challenge that demands effort and dedication, but it opens the door to a promising future. Students will learn from the best teaching staff and with the most flexible and innovative educational methodology.



“

*We have highly qualified teachers and the most complete syllabus on the market, which allows us to offer you education of the highest academic level”*

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

**01**

### 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.*

**02**

### 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.*

**03**

### 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.*

**04**

### 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.*

05

### 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.*

06

### 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.*

07

### 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.*

08

### 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.*

# 04 Objectives

The overall objective of TECH's Blockchain Postgraduate Certificate Key to Building a Decentralized Metaverse, is to provide professionals with an in-depth understanding of Blockchain technology and its application in the context of the metaverse, enabling them to understand how this technology can be used to create a more secure, transparent and decentralized virtual environment. This program provides students with the tools necessary to develop innovative solutions in an increasingly connected and digital world.



“

*This TECH Postgraduate Certificate is the key to understanding how Blockchain technology is revolutionizing the construction of the Metaverse”*

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

The **Postgraduate Certificate in Blockchain: Key to Building a Decentralized Metaverse** will enable the student to:

01

Examine the importance of Blockchain values in a new virtual world

02

Delve into the opportunities that Blockchain offers us as users of the Metaverse

03

Develop Metaverse business models, powered by Blockchain







04

Unravell the role of data in the Metaverse

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05

Transform Blockchain case studies into Value for Metaverse users

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06

Analyze the value of integrating diverse Blockchain case studies into a single environment

# 05

# Structure and Content

This 100% online TECH program has been designed to provide professionals with a deep understanding of Blockchain technology and its application in the context of the Metaverse. Thanks to its structuring, key topics such as Bitcoin, public and private blockchain, Metaverse economics and finance, digital identity, DAOs, smart contracts, among others are addressed in a concrete and effective way. Students will have the opportunity to acquire practical skills and up-to-date knowledge in an interactive and personalized learning environment in just 6 weeks.



“

*Discover how public and private Blockchains are redefining the governance of the Metaverse, in an agile way thanks to the academic resources implemented by TECH”*

## Syllabus

The importance of Blockchain technology and its application in the Metaverse cannot be underestimated. The business and employment opportunities in this area are significant, and professionals with skills and knowledge in this field are uniquely positioned to lead and participate in building innovative solutions. This program offers students a competitive advantage in today's job market by providing them with practical skills and up-to-date knowledge.

This program offers students the opportunity to understand how Blockchain technology is revolutionizing the construction of the Metaverse and how it can be used to create a more secure and transparent virtual environment. Additionally, the Postgraduate Certificate addresses crucial topics such as metaverse economics and finance, DAOs, digital identity and smart contracts, among others.

This 6-week, 100% online program offers an interactive and personalized learning experience that adapts to the students' availability and schedules.

Therefore, the interactive and personalized approach of this syllabus, together with the complete and updated syllabus, makes this program an ideal choice for professionals seeking to acquire skills and knowledge in this constantly evolving area.

This Postgraduate Certificate takes place over six weeks and has 1 module:

### Module 1

### Blockchain: The Key to Building a Decentralized Metaverse



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

TECH offers the opportunity to study this Postgraduate Certificate in Blockchain Key to Building a Decentralized Metaverse completely online. During the 6 weeks of the specialization, the student will be able to access all the contents of this program at any time, which will allow the students to self-manage their study time.

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

**Module 1. Blockchain: The Key to Building a Decentralized Metaverse**

**1.1. Bitcoin**

- 1.1.1. Satoshi Nakamoto
- 1.1.2. Bitcoin's Impact on the Economic, Political and Social Context
- 1.1.3. Bitcoin Ecosystem. Case Uses

**1.2. Public or Private Blockchains. New Governance Model**

- 1.2.1. Public or Private Blockchains
- 1.2.2. Blockchain. Governance Model
- 1.2.3. Blockchain. Case Studies

**1.3. Blockchain. The Value of Data**

- 1.3.1. Data Value in a New Digital Paradigm
- 1.3.2. Blockchains Data and Value Contribution
- 1.3.3. Advanced Technologies for Working with Governed Data

**1.4. Metaverse Decentralization and Automation**

- 1.4.1. Decentralization and Automation
- 1.4.2. Technological Response to User Needs
- 1.4.3. Businesses of the Future

**1.5. Metaverse Governance Model through DAOs**

- 1.5.1. DAOs Metaverse Value
- 1.5.2. DAOs User-Transparent Game Rules
- 1.5.3. DAOs that Add Value to the Metaverse

**1.6. Ownership and Value of Digital Asset and Tokenization**

- 1.6.1. Non Fungible Token (NFTs) Value
- 1.6.2. Physical or Virtual AssetTokenization
- 1.6.3. Digital Assets in the Metaverse Case Studies

**1.7. The Metaverse Economy**

- 1.7.1. Storing and Exchanging Value with Cryptocurrencies
- 1.7.2. Business Models for Users and Organizations
- 1.7.3. Metaverse Finance Empowered by Blockchain

**1.8. Digital Identity**

- 1.8.1. Our Digital Identity Certification
- 1.8.2. Metaverse Avatars
- 1.8.3. Users and Organizations. Digital Identity

**1.9. Smart Contracts, dApps and the Cryptoverse**

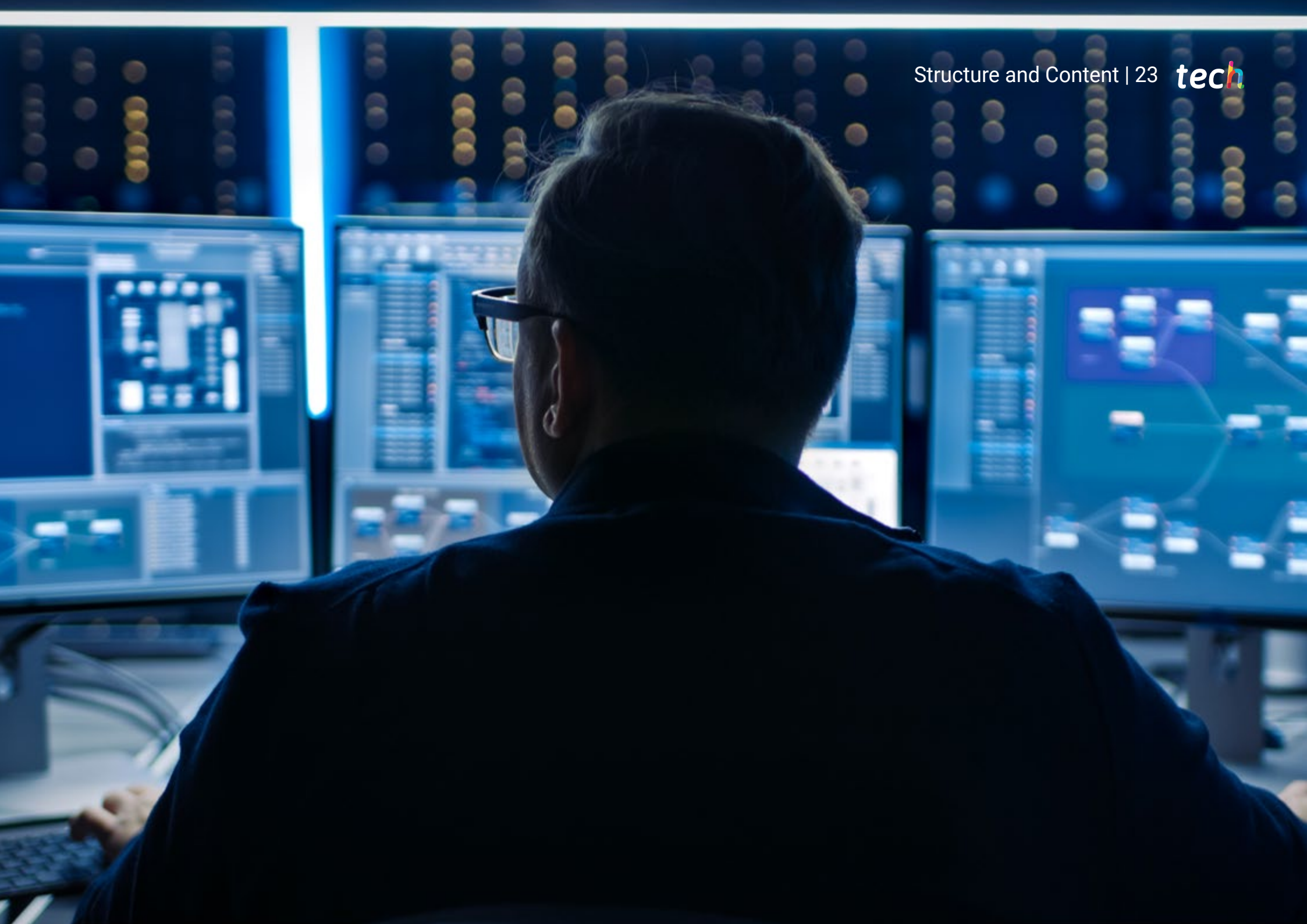
- 1.9.1. Real World vs. Virtual World. Activity Reinvention
- 1.9.2. Decentralized Applications
- 1.9.3. Applied Blockchain. New Universe of Possibilities

**1.10. The Metaverse New Internet**

- 1.10.1. Reinventing the Internet through the Metaverse
- 1.10.2. New Economic and Social Environment
- 1.10.3. Physical and Virtual World Connection



*Discover how Smart Contracts and decentralized applications are redefining the business models of the future in an agile way thanks to TECH's methodology"*



# 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"*

## 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.

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



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



## 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.

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

## 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.



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

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

# Our Students' Profiles

This Postgraduate Certificate in Blockchain: Key to Building a Decentralized Metaverse is aimed at University Graduates and Undergraduates who have previously completed any of the following programs in the field of Social and Legal Sciences, Administration and Economics.







“

*If you have experience in the Blockchain technology, and are looking for an interesting career enhancement while continuing to work, this is the program for you”*

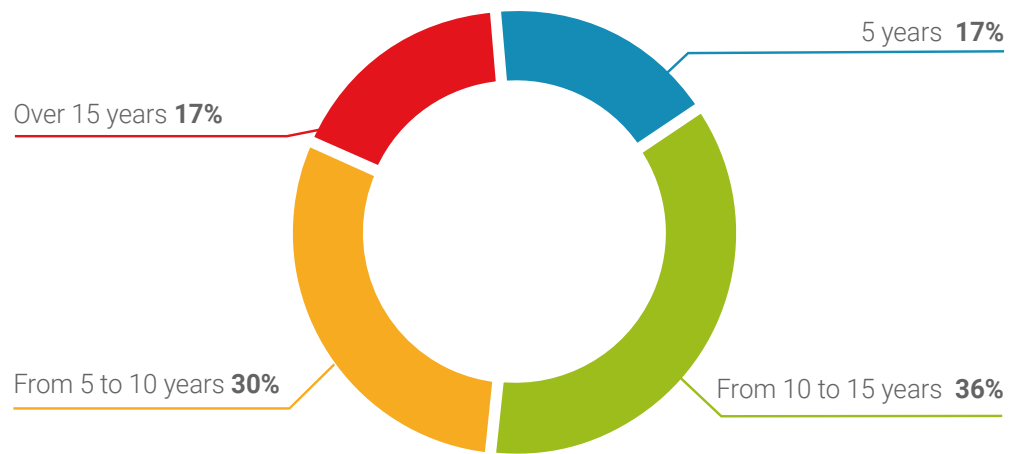
### Average Age

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Between **35** and **45** years old

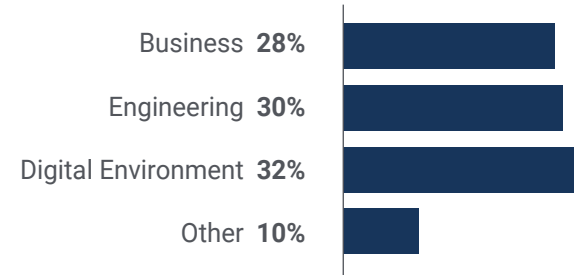
### Years of Experience

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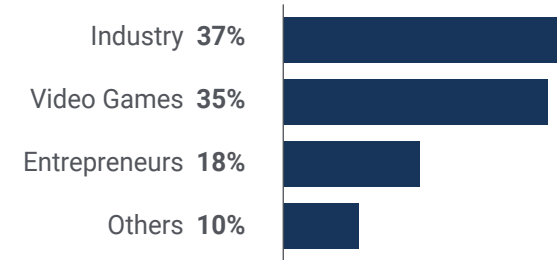
### Training

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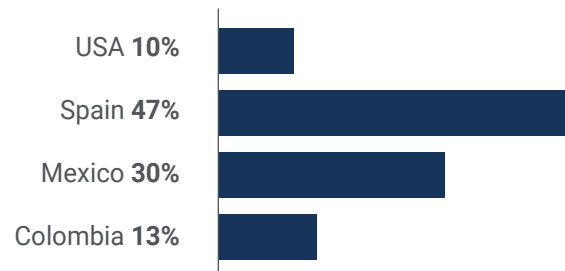
### Educational Profile

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## Geographical Distribution

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## María Rodríguez

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Vice President of Marketing in a consumer goods company

*This Postgraduate Certificate was a transformative experience. I developed key skills and knowledge that helped me lead more effectively and make more informed decisions. Additionally, the program allowed me to connect with professionals from diverse industries and build a valuable network of contacts. I would recommend this course to any executive looking to enhance their skills in the area of Blockchain technology"*

08

# Course Management

The teaching team of the Blockchain Postgraduate Certificate: Key to Building a Decentralized Metaverse, has experts in the area of Blockchain, Economics and Technology. These professionals have extensive experience in the development and implementation of projects related to Blockchain technology and its application in different industries. Their experience and knowledge are essential for the development of the syllabus, which ensures that students receive a quality and updated education, in line with the latest trends and developments in that field.



“

*Learn from experts how Metaverse decentralization and automation can transform the way we interact digitally in an increasingly connected world”*

## Management



### Mr. Cavestany Villegas, Iñigo

- ♦ Co-Founder & Head of Ecosystem of Second World
- ♦ Web3 and Gaming Leader
- ♦ IBM Cloud Specialist at IBM
- ♦ Advisor at Netspot OTN, Velca and Poly Cashback
- ♦ Teacher in business schools such as IE Business School or IE Human Sciences and Technology
- ♦ Graduate in Business Administration from IE Business School
- ♦ Master's Degree in Business Development from the Autonomous University of Madrid
- ♦ IBM Cloud Specialist
- ♦ Profession Certification in IBM Cloud Solution Advisor



09

# Impact on Your Career

This Postgraduate Certificate is a unique opportunity for professionals looking to improve their leadership skills and develop a strategic vision in their career. Through a combination of theoretical and practical knowledge, participants can improve their ability to make informed decisions and lead teams more effectively, which can lead to more advanced and successful career opportunities.





“

*By understanding how asset tokenization and the Metaverse economy are opening up new business opportunities, your opportunities for improvement will increase”*

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

This Postgraduate Certificate in *Blockchain: Key to Building* is an intensive program that prepares its graduates to face challenges and business decisions in the field of *Blockchain* technology. Its primary objective is to promote personal and business growth by helping you achieve success.

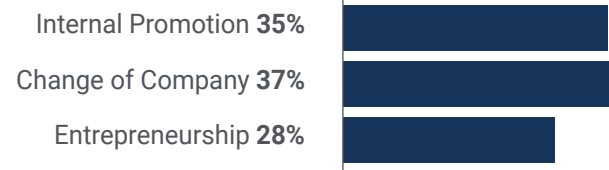
*Take advantage of this unique opportunity to evolve in your business environment with new knowledge that will make you an outstanding professional.*

*Gain an in-depth understanding of Blockchain technology and its impact on today's economy, politics and society.*

#### Time of Change



#### Type of Change



## Salary Increase

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The completion of this program represents a salary increase of more than **27.32%** for our students.



10

# Benefits for Your Company

The study of the Postgraduate Certificate in Blockchain: Key to Building a Decentralized Metaverse can have a major impact on the enterprise by developing highly skilled leaders in this emerging field. This can lead to greater efficiency and effectiveness in the implementation of Blockchain projects and, consequently, an increase in the company's competitiveness in the marketplace. Additionally, the creation of a valuable professional network of contacts can also be beneficial to the company.



“

*Today's executives need to stay on top of the latest technology trends, and this university program gives them an in-depth understanding of Blockchain technology as applied to the Metaverse”*

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

01

### 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.

---

02

### 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.

03

### Building agents of change

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

---

04

### Increased international expansion possibilities

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



05

### **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.

---

06

### **Increased competitiveness**

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

11

# Certificate

The Postgraduate Certificate in Blockchain: Key to Building a Decentralized Metaverse guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





“

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

This **Postgraduate Certificate in Blockchain: Key to Building a Decentralized Metaverse** 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 Certificate** issued by **TECH Technological University** via tracked delivery\*.

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

Title: **Postgraduate Certificate in Blockchain: Key to Building a Decentralized Metaverse**

Official N° of Hours: **150 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.



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- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

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## Blockchain: Key to Building a Decentralized Metaverse

