



Postgraduate Certificate Bitcoin. Origin of the

Cryptoeconomy

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/information-technology/postgraduate-certificate/bitcoin-origin-cryptoeconomy

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Certificate

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tech 06 | Introduction

Since 2008, Bitcoin has not stopped advancing in its adaptation process, since it still remains as one of the most important currencies in the economy, far exceeding the currency of Latin American countries and many other Asian countries. To this extent, connoisseurs and professionals have to delve into Cryptoeconomics, a term coined and emerged since the commercialization of Bitcoin and other forms of digital wallets.

This field, influenced by the metaverse and the adaptation of the digital world, is a wide baggage of knowledge guided to the purchasing modality of the future, since it is a current model of economy that is valid in many countries. On the other hand, those who wish to delve deeper into the broad field of Bitcoin, should identify its role within the general economic plane, since its growth has been considerable, being an asset to be taken into account by large companies and investors.

All this knowledge will be fully developed in this university program, which is offered by TECH Global University for IT professionals. This is a 100% online program that will allow the student to delve into the field of Cryptocurrencies, its operation within the metaverse and its impact on today's world to reach the economy. A program that can be developed without on-site classes and without fixed schedules, so that the student can take it from the comfort of his home, only needing a device with internet connection.

This **Postgraduate Certificate in Bitcoin. Origin of the Cryptoeconomy** contains the most complete and up-to-date program on the market. The most important features include:

- The development of case studies presented by digital business and IT experts
- The graphic, schematic, and practical contents with which they are created, provide practical information on the 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





A 100% online program, designed for computer connoisseurs of the metaverse and the digital economy who want to expand their skills in these fields"

The program's teaching staff includes professionals from the sector who contribute their work experience to this educational 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 is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year This will be done with the help of an innovative system of interactive videos made by renowned experts.

A program designed to suit your needs, here you can delve into the Bitcoin and its role in the economy.

Would you like to learn about the functioning of Bitcoin and the Cryptoeconomy? Enroll now.







tech 10 | Objectives



General Objectives

- Analyze the history of Bitcoin
- Understand how Bitcoin works
- Determine all Bitcoin stakeholders
- Generate specialized knowledge about Ethereum
- Analyze its operation
- Master Fthereum wallets
- Analyze DeFi advantages
- Understand how it works
- Perform DeFi project analysis
- Analyze the most used DeFi analysis tools
- Generate specialized knowledge on the most widely used DeFi technology
- Familiarize yourself with the most relevant DeFi protocols in the crypto ecosystem
- Understand money and the key difference between fiat and crypto
- Learn how to value a Blockchain Tokenomics
- Become familiar with wallets and web 3
- Establish differences between public and private platforms

- Analyze how Blockchain is applied when cryptocurrencies do not apply to the case study
- Analyze the main Defi protocols
- Substantiate its operation
- Identify the main market movements
- Examine and propose investment entries and exits
- Evaluate and develop investment strategies
- Establish the basis for crypto world compliance
- Analyze existing regulations
- Establish parameters to initiate projects with legal certainty
- Evaluate privacy within Blockchain technology
- Identify legal security in existing projects
- Determine the basic principles of crypto-asset security
- Examine the main threats in cyberspace
- Discover best practices for crypto asset custody



Objectives | 11 tech



Specific Objectives

- Distinguish the different directions and types of transactions
- Determine the different uses of Bitcoin in the real world
- Installing and setting up the most used Bitcoin Wallets



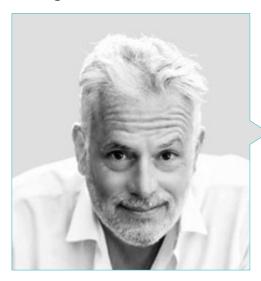
A program designed to improve your skills in handling Bitcoin in all its facets"





tech 14 | Course Management

Management



Dr. Gil de la Guardia, Alberto

- Founding member of Le Crypto Club
- Co-director of several university programs related to Blockchain Technology and the Crypto world
- Doctorate in International Public Law at the Complutense University of Madrid
- Master's Degree in Financial Studies from San Pablo CEU University
- Master's Degree in Blockchain Technology and Bitcoin from the European University of Madrid
- Degree in Law from the University of Salamanca

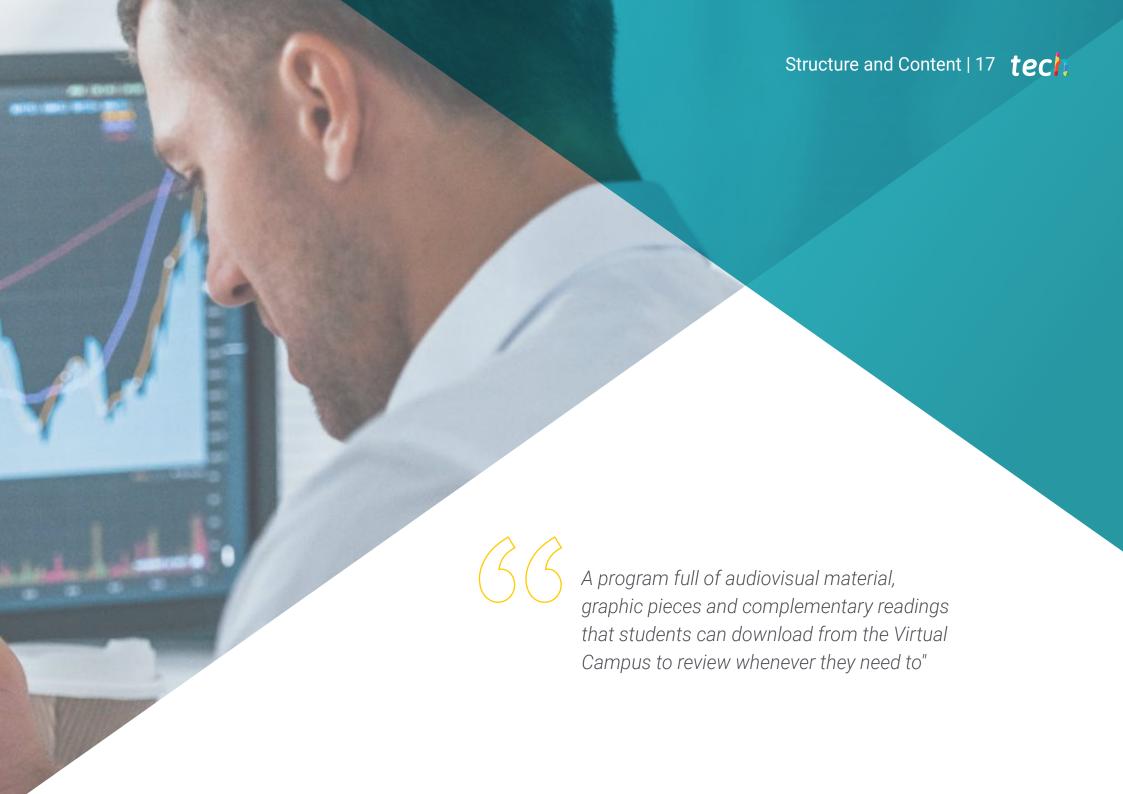
Professors

Mr. Fernández Belando, David

- Founding partner of ADNBLOCK
- Information Technology Engineering at the National University of Distance Education
- Bitcoin and Blockchain Expert Postgraduate Degree at the European University of Madrid
- IBM Blockchain Essentials
- IBM Blockhain Foundation Developer







tech 18 | Structure and Content

Module 1. Bitcoin The Birth of Cryptoeconomics

- 1.1. Bitcoin Fundamentals
 - 1.1.1. Bitcoin
 - 1.1.2. Bitcoin White Paper
 - 1.1.3. How Bitcoin Works
- 1.2. Bitcoin Addresses
 - 1.2.1. Bitcoin Address Generation
 - 1.2.2. Bitcoin Address Types
 - 1.2.3. Smart Contracts in Bitcoin
- 1.3. P2P Networks
 - 1.3.1. P2P Networks
 - 1.3.2. P2P Bitcoin Networks
 - 1.3.3. Use of P2P Networks in Crypto Projects
- 1.4. Game Theory
 - 1.4.1. Game Theory
 - 1.4.2. Bitcoin Gaming Applicability
 - 1.4.3. Main Games Applied in the Real World
- 1.5. Consensus Model
 - 1.5.1. Consensus Models in Distributed Systems
 - 1.5.2. Bitcoin Consensus
 - 1.5.3. BIP Analysis (Bitcoin Improvement Proposals)
- 1.6. Bitcoin Mining
 - 1.6.1. Bitcoin Mining
 - 1.6.2. Current Bitcoin Mining Model
 - 1.6.3. Mining Farms
- 1.7. Transactions: Types
 - 1.7.1. Bitcoin Transactions
 - 1.7.2. Blockchain Traceability
 - 1.7.3. Block Explorers





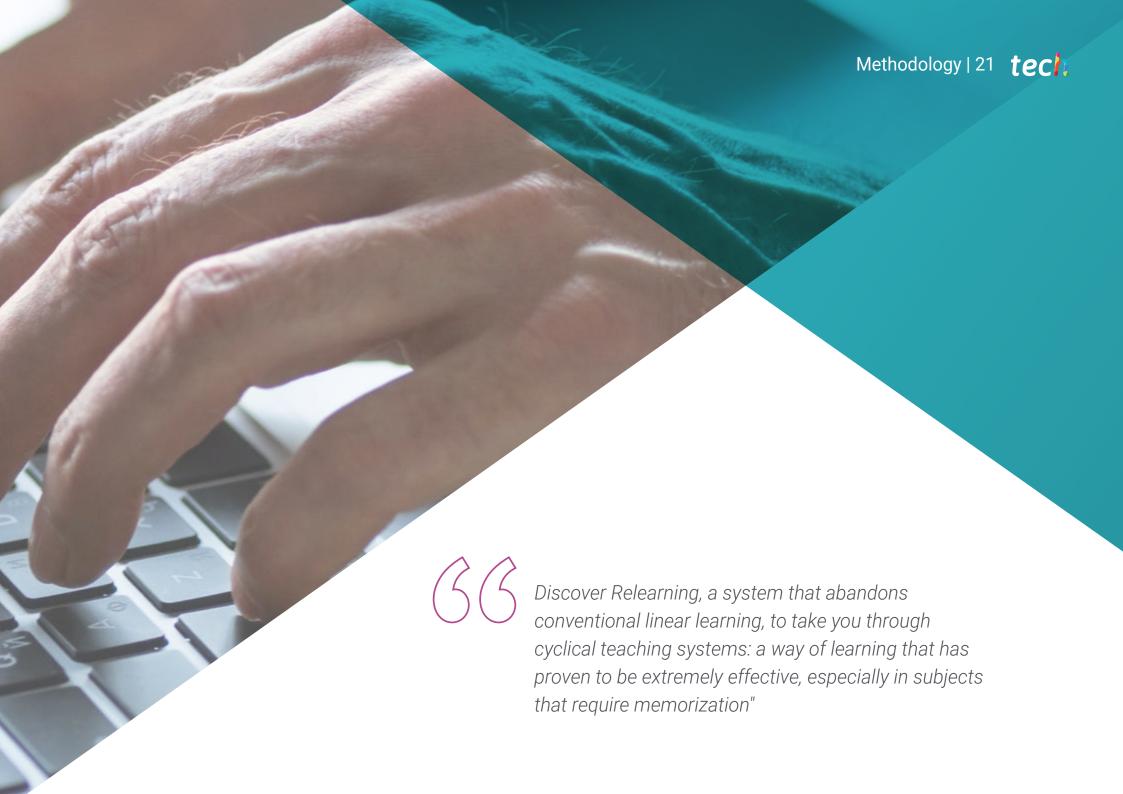
Structure and Content | 19 tech

- 1.8. Nodes: Types
 - 1.8.1. Bitcoin Nodes
 - 1.8.2. Full Node Uses. Best Practices
 - 1.8.3. Full Nodes vs. Light Nodes
- 1.9. Bitcoin Wallets
 - 1.9.1. Types of Wallets
 - 1.9.2. Use of Bitcoin Wallets
 - 1.9.3. Security in the use of Wallets
- 1.10. Other Bitcoin Uses
 - 1.10.1. Bitcoin as Data Repository
 - 1.10.2. DeFi with Bitcoin
 - 1.10.3. Bitcoin as Digital Notary



Do not miss this opportunity, enroll now and learn more about Bitcoin and Cryptoeconomics, a field with good professional opportunities in the future"





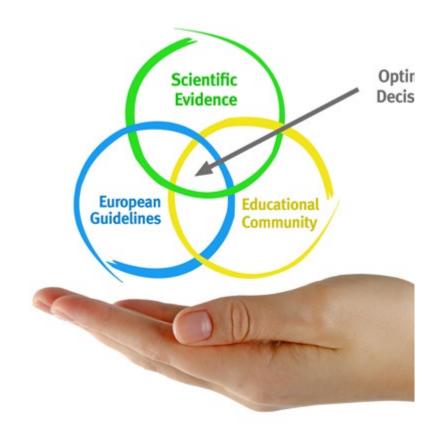
tech 22 | Methodology

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 balances 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 prepare 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.



Methodology | 25 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. This methodology has prepared 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 education, 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.



Methodology | 27 tech



25%

4%

3%

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.





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This program will allow you to obtain your **Postgraduate Certificate in Bitcoin. Origin of the Cryptoeconomy** 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** title 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.

Title: Postgraduate Certificate in Bitcoin. Origin of the Cryptoeconomy

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



Mr./Ms. _____, with identification document _____ has successfully passed and obtained the title of:

Postgraduate Certificate in Bitcoin. Origin of the Cryptoeconomy

This is a program of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



^{*}Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

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