Postgraduate Diploma
Cryptoeconomics

tech technological university

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Postgraduate Diploma

Cryptoeconomics

- Modality: **online**
- Duration: **6 months**
- Certificate: **TECH Technological University**
- Dedication: **8h/week**
- Schedule: **at your own pace**
- Exams: **online**

Website: www.techtitute.com/in/information-technology/postgraduate-diploma/postgraduate-diploma-cryptoeconomics

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01

Introduction

That Bitcoin and Blockchain are changing the world and its finances, is a fact. Thanks to the development of both concepts, cryptoeconomics is becoming more and more real and solid. The foundations of this sector are based on the creation of coordinated systems to promote among its participants the management of decentralized financial activities through the management of Cryptocurrencies and blockchain ecosystems, without third-party intermediaries. However, the design of its structures, as well as the implementation of its digital transactions requires extensive and specialized computer knowledge, something that any professional in this field will be able to acquire with the course of this program. Through 450 hours of theoretical and practical training, the graduate will learn the most exhaustive information about the new crypto business models and about the creation of their own diversified portfolios 100% online.

The best program in the current environment to analyze the different strategies for the creation of new Crypto business models and their programming protocols in a 100% online way"

As expressed in 2019 by Cryptocurrency and Blockchain expert Frank Luetticke, with the advent of Bitcoin and blockchain, money has evolved, and digital assets will do to physical currencies what email once did to paper letters. With the passage of time, it has been seen how this German predicted a future that is becoming more and more certain. And the fact is that cryptoeconomic activity has been increasing in value, considerably influencing the emergence of new business models based on decentralized finance and in which there are no intermediaries, only technology and automated processes.

The boom in this area, as well as the complexity that characterizes it and the specialized knowledge that the person who wants to master it from the structural point of view must have, has placed value on the IT profession. For this reason, and in view of the incessant demand for experts in the sector, TECH Technological University has developed this Postgraduate Diploma in Cryptoeconomics. This is an academic experience with which the graduate will be able to delve into the different Crypto environments and their characteristics, as well as the launch of a digital project of this type based on the economy on Web3. In addition, they will delve into the new business models and their protocols (Landing, AMM, DEX, DeFi, etc.).

All this, 100% online and over 6 months in which you can access the Virtual Campus from wherever and whenever you want, with no connection limits. In addition, the program includes hours of high-quality additional material presented in different formats, allowing you to delve into the different sections of the syllabus in a personalized way. It is, therefore, a unique academic opportunity to enter a booming sector such as Cryptoeconomics and elevate your talent as an IT professional to the pinnacle of the digital environment.

This **Postgraduate Diploma in Cryptoeconomics** 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 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

You will work with the latest and most comprehensive compliance-based information for the regulation and privacy of Crypto environments"

Would you like to seamlessly manage information silos in the real world? This Postgraduate Diploma will provide you with all the resources you need to achieve this in less than 6 months"

In the Virtual Campus you will find additional high-quality material that you will be able to download during the course of the program for consultation once it has concluded.

You will be able to get up to date on the international regulations in the different jurisdictions regarding the holding of crypto assets.

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.

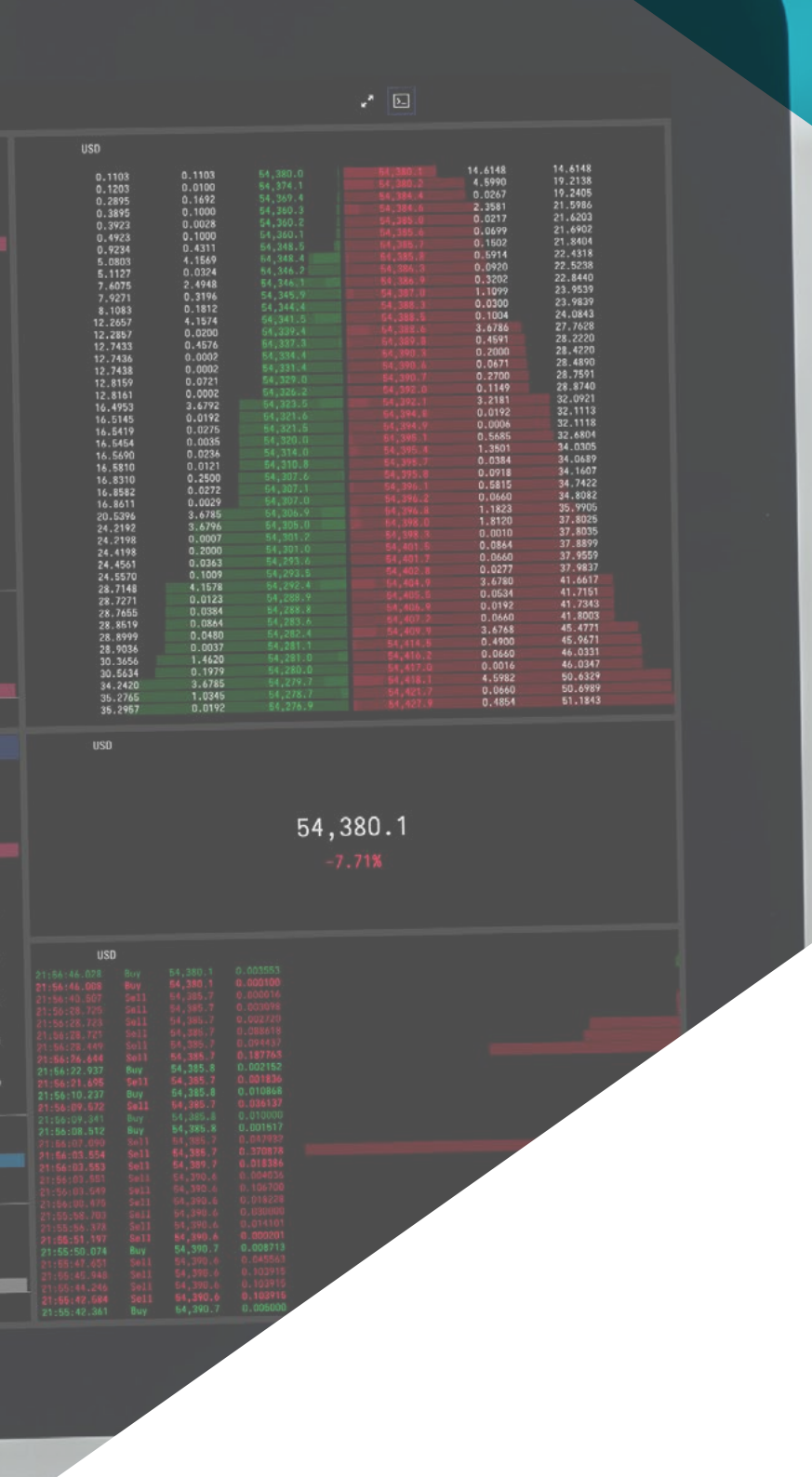
The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

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.

02

Objectives

The rise of Cryptoeconomics linked to the complexity of its processes is what has led TECH Technological University and its team of experts to develop this 100% online program. Its objective is to provide IT professionals with all the information they need to perfectly master even the latest developments in the Crypto environment, being able to implement the strategies to their praxis.



The best program on the market to master Cryptocurrency Trading through a comprehensive knowledge of its most effective strategies"

General Objectives

- Understand money and the key difference between fiat and crypto
- Learn how to value a Blockchain Tokenomics
- Become familiar with wallets and web 3
- Understand the risks and opportunities of the new Cryptoeconomics
- Analyze the main Defi protocols
- Substantiate its operation
- Be able to create a Portfolio What is the body image you would like to have
- 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 rules for presenting potential projects

You will work with Liquidity Mining and Yield Farming protocols on security enhancement and their asset-based tactics"

Specific Objectives

Module 1. Cryptoeconomics

- Evaluate a decentralized governance model and its obstacles
- Conduct an analysis of identified risks
- Generate specialized knowledge on consumer and investor protection
- Examine the effectiveness and impact on monetary policy
- Determine financial instability risks
- Analyze criminal activity
- Assess environmental impact

Module 2. New Crypto Business Models Protocols

- Apply protocols based on their case study
- Analyze different strategies
- Create your own diversified portfolio

Module 3. Compliance Regulations and Crypto Privacy

- Apply Blockchain compliance
- Determine the regulatory standards that apply to the DLT
- Demonstrate the importance of regulationsto ensure project security
- Analyze the importance of privacy and data configuration in block transactions
- Obtain the basic authorizations to start projects
- Examine project confidence parameters

03

Course Management

Both the direction and the teaching of this Postgraduate Diploma in Cryptoeconomics will be carried out by a group of professionals in this field with extensive experience in the management and direction of projects related to decentralized digital finance. It is, moreover, a team characterized by its high academic level, as well as its human quality, aspects that will undoubtedly be reflected in the syllabus. Thanks to this, the computer scientist will be able to know in detail the ins and outs of this field and delve into it from the hand of the best specialists in the sector.

If you have any questions during the course of the program, don't worry. You will have the teaching team at your disposal to solve them through the Virtual Campus"

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
- IBM Blockchain Essentials
- IBM Blockchain. Foundation Developer
- Bitcoin and Blockchain Expert at Universidad Europea de Madrid
- Information Technology Engineer from the Universidad Nacional de Educación a Distancia (National University of Distance Education)

Mr. Montalvo Aguilera, Hermógenes

- Consultant and legal advisor in Blockchain, legal smart contracts and enterprise tokenization
- Lawyer expert in Compliance, Blockchain and Tokenomics by Esade Business School
- Cybersecurity Course
- Master's Degree in Law from the Universidad Oberta de Catalunya
- Master's Degree in Blockchain by Tutellus
- Graduate in Law from the Universidad Oberta de Catalunya

Mr. Fernández Ramos, Jesús

- Mangaging Partner at FRK Investments
- 2ndWind Media Partner
- Partner and Tokener at beToken Capital
- Blue Sky Learning Partner
- General Partner of Yara Ventures
- Member of the Board of Directors of ARCHITEChTures
- Independent Expert for the European Commission on R&D projects
- Telecommunications Engineer by the UPC - ETSETB BCN
- Diploma Work (Optoelectronics) by the Vrije Universiteit Brussel

04

Structure and Content

Cryptoeconomics is a changing environment. For that reason, this program is constantly being updated, in order to be able to guarantee to the graduates who choose to specialize in it the latest and most exhaustive information. In addition, the teaching team has actively worked on the development of numerous hours of high-quality additional material, which will be available on the Virtual Campus from the beginning of the educational activity. Thus, IT professionals will be able to customize their level of in-depth study in the different sections of the syllabus, attending a training course adapted to their needs and requirements, as well as to those of the sector.

You will have numerous case studies to put your professional skills into practice and work on perfecting them during the course of this Postgraduate Diploma"

Module 1. Cryptoeconomics

1.1. Cryptocurrencies and Money
- 1.1.1. Fiat Money. Operation
- 1.1.2. Bitcoin vs. Ethereum. The rest
- 1.1.3. The Role of Stable Currencies

1.2. Central Banks and CBDCs
- 1.2.1. CBDCs
- 1.2.2. The Digital Yuan Case
- 1.2.3. Bitcoin vs. CBDCs
- 1.2.4. El Salvador

1.3. Blockchain evaluation and valorization
- 1.3.1. Cash Flow Method
- 1.3.2. Country Method
- 1.3.3. Technical Analysis vs. Fundamental Analysis

1.4. Wallets
- 1.4.1. Wallets Key Element
- 1.4.2. Protected Wallets
- 1.4.3. Unprotected Wallets
- 1.4.4. Wallets Promoted by Countries

1.5. Tokenomics
- 1.5.1. Tokenomics: Importance
- 1.5.2. NFTs or Tokens
- 1.5.3. Type of Tokens Utility vs. Security vs. Governance

1.6. Web3 Economics
- 1.6.1. The Cryptos. New Economy Basis
- 1.6.2. NFTs and Games
- 1.6.3. NFTs y Communities
- 1.6.4. Combined Models of NFTs and Tokens

1.7. Digital Identity
- 1.7.1. Cryptos as a Paradigm of Digital Identity
- 1.7.2. Digital Identity and DeFi
- 1.7.3. Soul bound NFTs

1.8. New Banking
- 1.8.1. Crypto Banks
- 1.8.2. Crypto Loans
- 1.8.3. Crypto Interests
- 1.8.4. Banking System Evolution

1.9. Crypto Project Launch
- 1.9.1. ICO
- 1.9.2. IDO
- 1.9.3. ILO
- 1.9.4. NFTs
- 1.9.5. Tokenomics and Superfluid

1.10. Medium-Term Paradigms
- 1.10.1. Quantum Computing
- 1.10.2. Big Data and Blockchain
- 1.10.3. Decentralization Utopia

Module 2. New Crypto Business Models Protocols

2.1. DeFi Protocol Analysis on Bitcoin
- 2.1.1. DeFi on Bitcoin
- 2.1.2. Lightning Network
- 2.1.3. RSK

2.2. Analysis of Landing Protocols
- 2.2.1. Main Landing Protocols
- 2.2.2. Case Uses
- 2.2.3. Landing in Crypto Projects vs. Non-Crypto

2.3. AMM Protocol Analysis
- 2.3.1. Main AMM Protocols
- 2.3.2. Case Uses
- 2.3.3. Differences Between Landing and AMM

2.4. DEX Protocol Analysis
- 2.4.1. Main DEX Protocols
- 2.4.2. Case Uses
- 2.4.3. BPO Vs. CEX

2.5. Information and Resource Silos
- 2.5.1. Information Silos
- 2.5.2. Crypto Silos Creation: Advantages
- 2.5.3. Real World Uses of Information Silos

2.6. Protocol Analysis: Liquidity Mining and Yield Farming
- 2.6.1. 7.6 Protocol Analysis:
- 2.6.2. Yield Farming Under the Hook
- 2.6.3. Tactics of Use According to Asset

2.7. Insurance Protocol Analysis
- 2.7.1. Main Insurance Protocols
- 2.7.2. Case Uses
- 2.7.3. Secure Protocol Creation

2.8. Investment Funds
- 2.8.1. Investment Funds
- 2.8.2. Crypto Investment Fund Analysis
- 2.8.3. Crypto Investment Fund Analysis

2.9. Composite Strategies
- 2.9.1. Cryptocurrency Trading
- 2.9.2. Strategy Analysis
- 2.9.3. Use Criteria for Strategies

2.10. Portfolio Analysis, Balancing and Protection
- 2.10.1. Cryptocurrency Wallets
- 2.10.2. Asset Analysis
- 2.10.3. Balancing and Protection Strategies

Module 3. Compliance Regulations and Crypto Privacy

3.1. Digital Identity
- 3.1.1. Digital Identity Transformation
- 3.1.2. Self - Sovereign Identity
- 3.1.3. Regulatory Framework in the Different International Legal Systems

3.2. Digital Signature
- 3.2.1. Electronic Signature
- 3.2.2. Digital Certificate
- 3.2.3. Certification Authorities

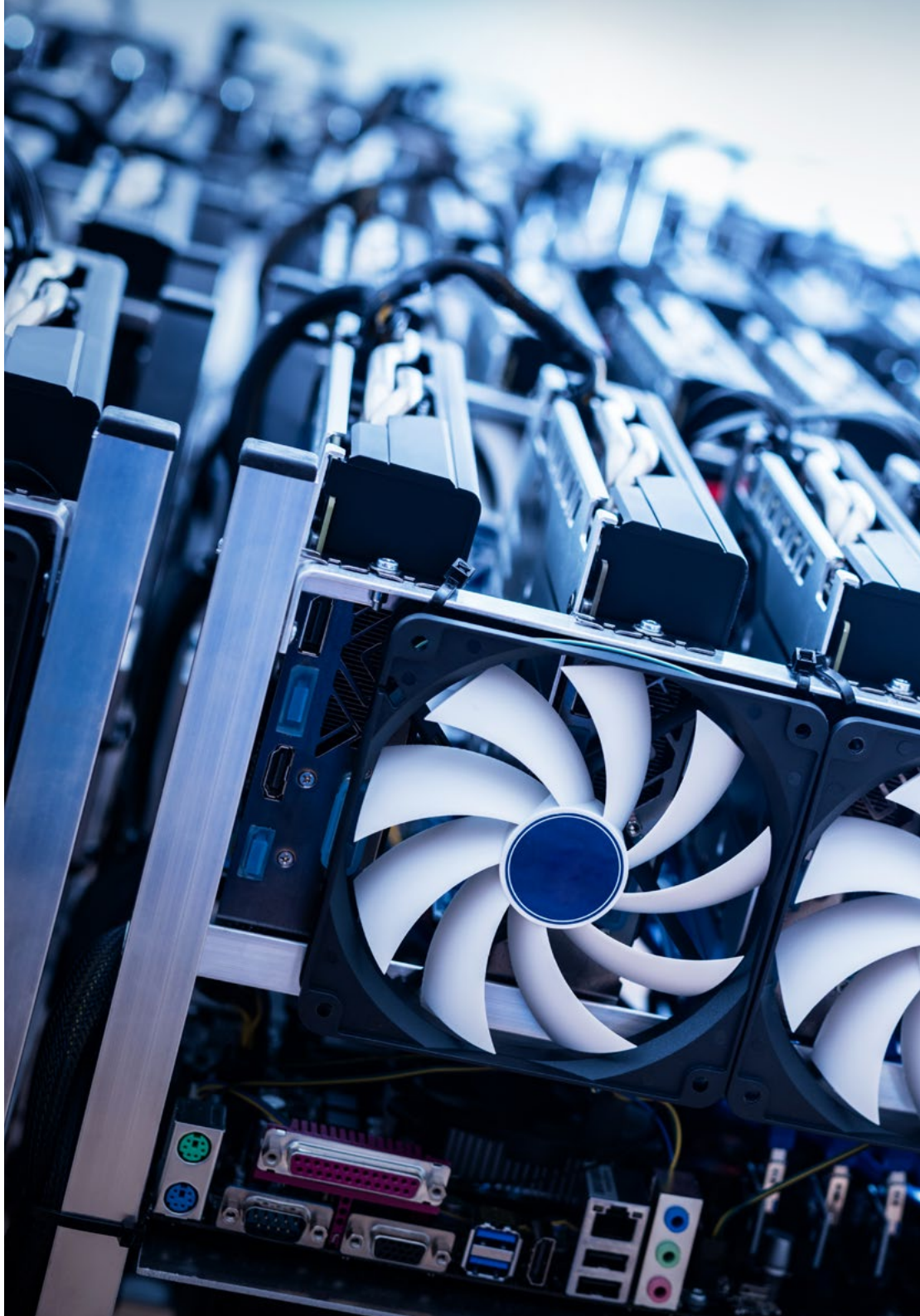
3.3. Compliance
- 3.3.1. Compliance
- 3.3.2. Blockchain Compliance
- 3.3.3. Compliance Models

3.4. Cryptos and Icos Legality
- 3.4.1. Regulatory Framework.
- 3.4.2. ICOS Launch
- 3.4.3. From ICOS to IDOS

3.5. Crypto Taxation
- 3.5.1. Tax Treatment of Crypto Assets in the European Union Legal System
- 3.5.2. Crypto-Asset Taxation Consultations
- 3.5.3. Tax Accounting Treatment in the European Union

3.6. International Regulation in the Different Jurisdictions Regarding the Holding of Crypto Assets Special Treatment in the Americas
- 3.6.1. MICA
- 3.6.2. DORA
- 3.6.3. EIDAS
- 3.6.4. The Future of Cryptos According to the European Commission

3.7. Cybersecurity
- 3.7.1. Cybersecurity in Blockchain
- 3.7.2. Decentralization
- 3.7.3. Blue Team



3.8. Ethics and Digital Errors
- 3.8.1. Good Faith in the Legality of U.S. Projects
- 3.8.2. Digital Transformation Mistakes
- 3.8.3. Organization Structuring Parameters

3.9. Regtech and Legaltech Solutions
- 3.9.1. REGTECH Solutions
- 3.9.2. LEGALTECH Solutions
- 3.9.3. Practical Examples

3.10. Blockchain Certificates
- 3.10.1. BlockchainCertification
- 3.10.2. Sector Business Opportunity
- 3.10.3. BlockTac

Opt for a program with which, in addition to delving into the current situation of the Crypto environment, you will work in its future according to the predictions of various international organizations"

05

Methodology

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

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

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

Case Study to contextualize all content

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

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

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

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

A learning method that is different and innovative

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

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

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

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

Relearning Methodology

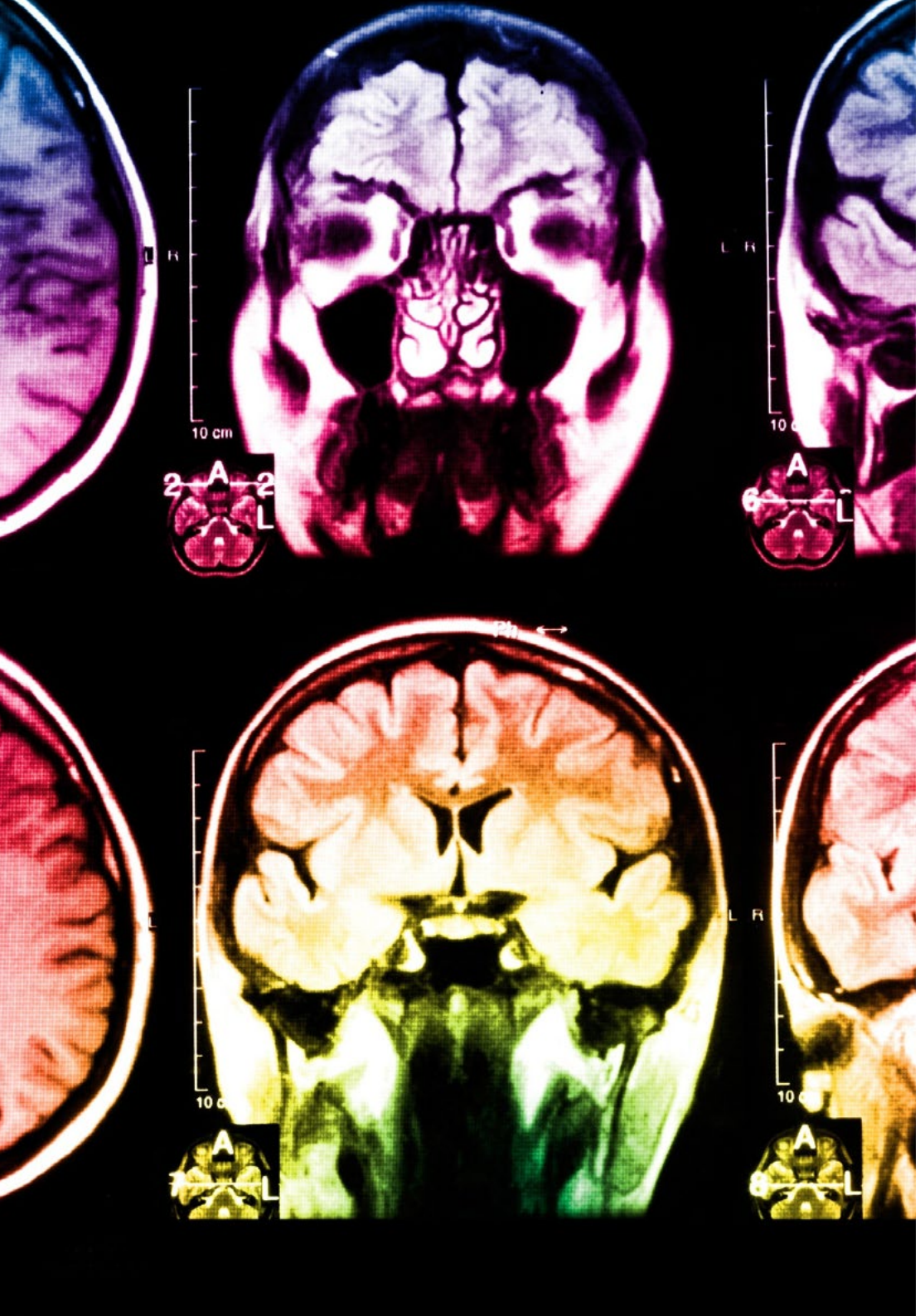
TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

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

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

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

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



In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically. This methodology has trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, and financial markets and instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

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

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

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

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

Study Material

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

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

Classes

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

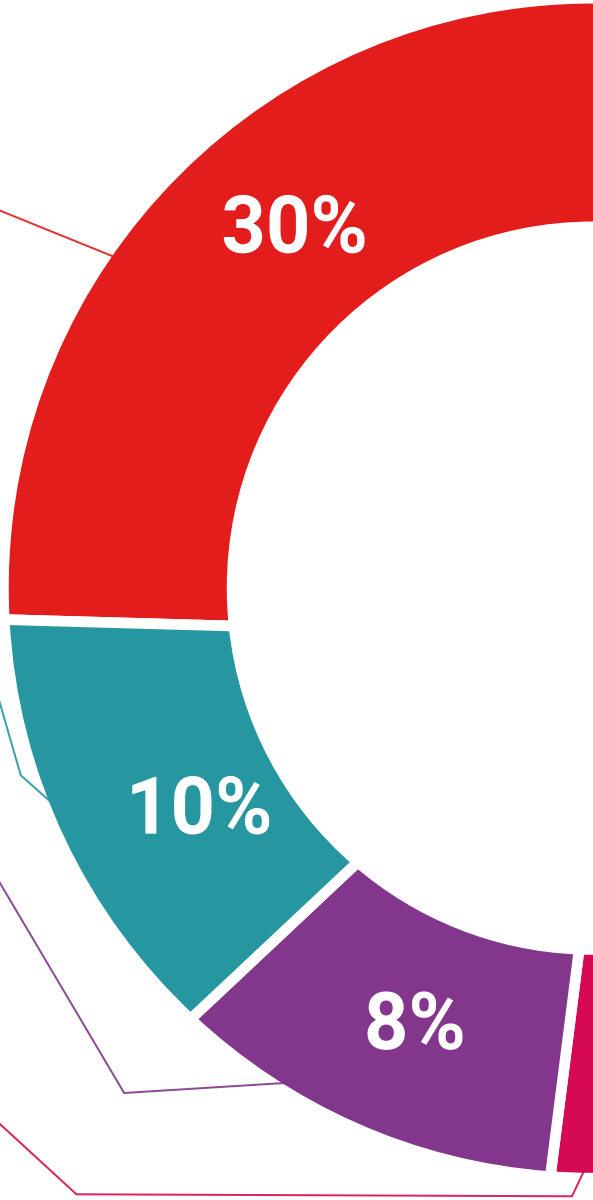
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.

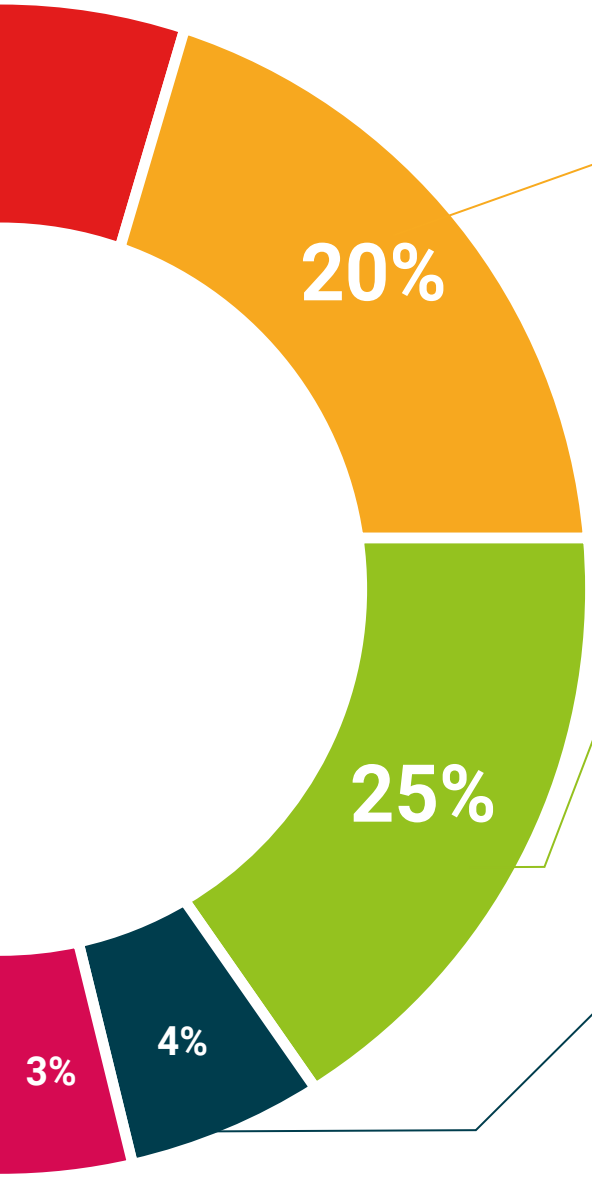
Practising Skills and Abilities

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

Additional Reading

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





Case Studies

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

Interactive Summaries

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

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

Testing & Retesting

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

06

Certificate

This Postgraduate Diploma in Cryptoeconomics guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma 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 Diploma in Cryptoeconomics** 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 Cryptoeconomics**

Official Nº of hours: **450 h.**

tech technological university

Awards the following

CERTIFICATE

to

Mr./Ms. _____, with identification number _____.

For having passed and accredited the following program

POSTGRADUATE DIPLOMA

in

Cryptoeconomics

This is a qualification awarded by this University, equivalent to 500 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro

Dean

Unique TECH Code: AFWORD23S techtitute.com/certificates

*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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