Executive Master's Degree

Cryptocurrency Trading

MCT

tech technological university

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Executive Master's Degree
Cryptocurrency Trading

- Modality: **online**
- Duration: **12 months**
- Certificate: **TECH Technological University**
- Dedication: **16h/week**
- Schedule: **at your own pace**
- Exams: **online**
- Target Group: **University Graduates who have previously completed any of the degrees in the fields of Social and Legal Sciences, Administrative and Business Sciences. In addition, managers interested in the area of market analytics and digital economic consulting.**

Website: **www.techtitute.com/us/school-of-business/professional-master-degree/master-cryptocurrency-trading**

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01

Welcome

Cryptocurrency trading has become an activity that generates hundreds of millions of dollars a year. In a down market, the trading of digital assets presents itself as a beacon of hope for lovers of risky investments and for those who already direct or wish to direct their economic and financial actions towards this sector in the future. However, it is a complex activity, characterized by volatility and risk, especially in those related to Bitcoin and Ethereum. For that reason, and in the face of the advancement of the cryptoeconomy, TECH has developed a specialized educational program based on developments related to the configuration of Wallets, strategic planning to achieve DeFi and the keys to master Blockchain technology. All this, through a 100% online theoretical and practical program that will raise the professional profile of the graduates to the top of the tokenized business sector.

Executive Master's Degree in Cryptocurrency Trading.
TECH Technological University

Decrease losses and maximize profits through secure cryptoeconomic investments, that's what you'll achieve upon completion of this Executive Master's Degree"

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 centre for intensive managerial skills training.

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 combines 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.

100,000+
executives trained 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.

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.

"At TECH, you will have access to the most rigorous and up-to-date case studies in the academic community"

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

Analysis

TECH explores the student's critical side, their ability to 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 (a postgraduate learning methodology with the highest international rating) with the Case Study. A complex balance between tradition and state-of-the-art, within the context of the most demanding academic itinerary.

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 ground-breaking price**. This way, TECH ensures that studying is not as expensive for students as it would be at another university.

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 training of the highest academic level"

This program will provide students with a multitude of professional and personal advantages, particularly the following:

01

A significant career boost

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 participants achieve positive career development in less than 2 years.

02

Develop a strategic and global vision of companies

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

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

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 areas 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

Be part of an exclusive community

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

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

04

Objectives

This Executive Master's Degree in Cryptocurrency Trading is the result of months of work by professionals in Blockchain and digital economy in order to create a program that gathers the keys to carry out a risk investment activity with total guarantee.

Therefore, the objective is to provide graduates with all the information they need to master this field, from managing their finances in a decentralized manner to creating tokenized structures based on the most successful business models in today's environment.

In just 12 months, you will master the basics of DeFi and its deployment over Ethereum in today's digital environment"

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

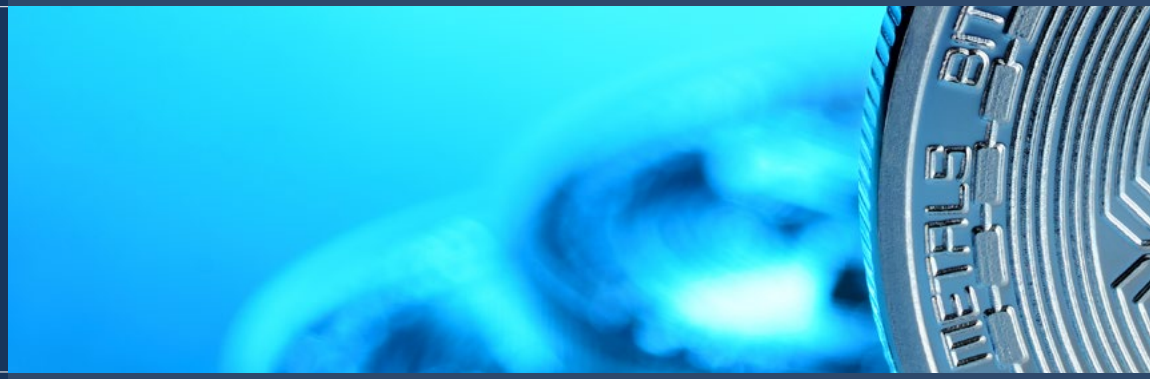
The **Executive Master's Degree in Cryptocurrency Trading** qualifies students to:

01 Develop advanced knowledge of the functioning of the crypto-economy protocol

02 Distinguish between the different directions and types of transactions

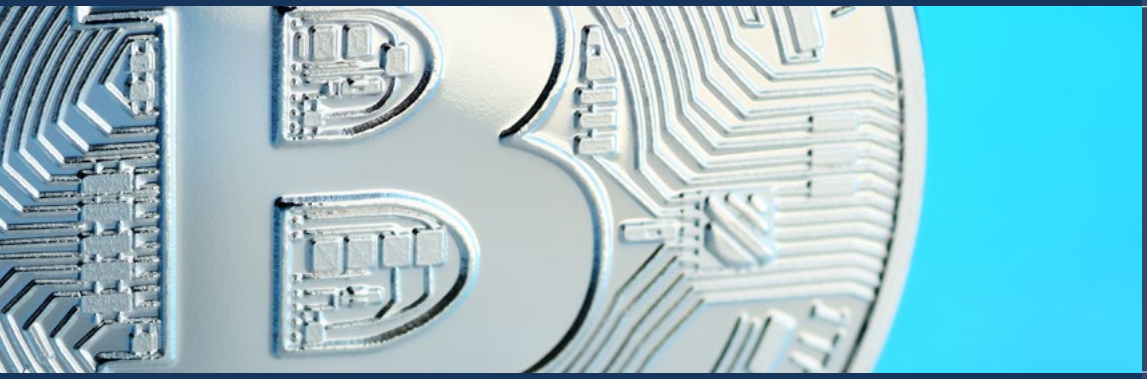
03 Determine the different uses of Bitcoin in the real world

04 Installing and setting up the most used Bitcoin wallets



05 Deploy Smart Contracts

06 Distinguish the different token standards



07 Use the different test and maninet networks

08 Install and set up metamask as a wallet

09 Analyze DeFi advantages

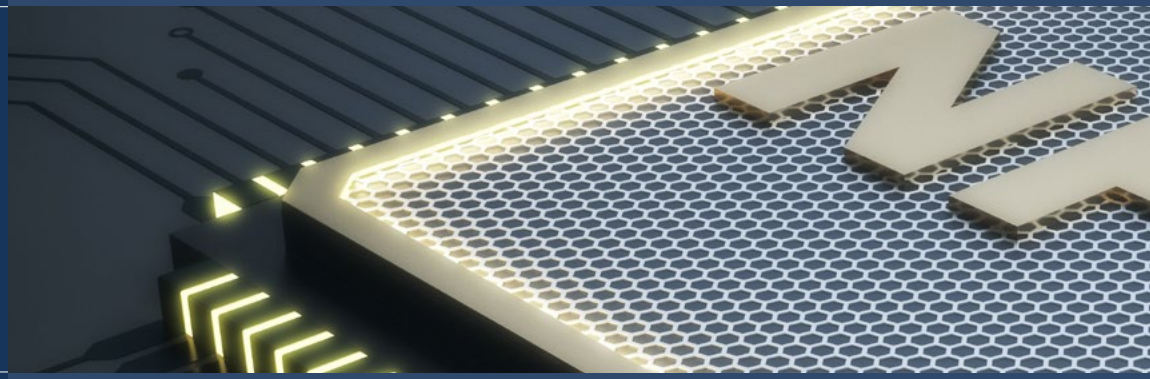
10 Conduct an analysis of identified risks

11 Generate specialized knowledge on consumer and investor protection

12 Establish differences between public and private platforms

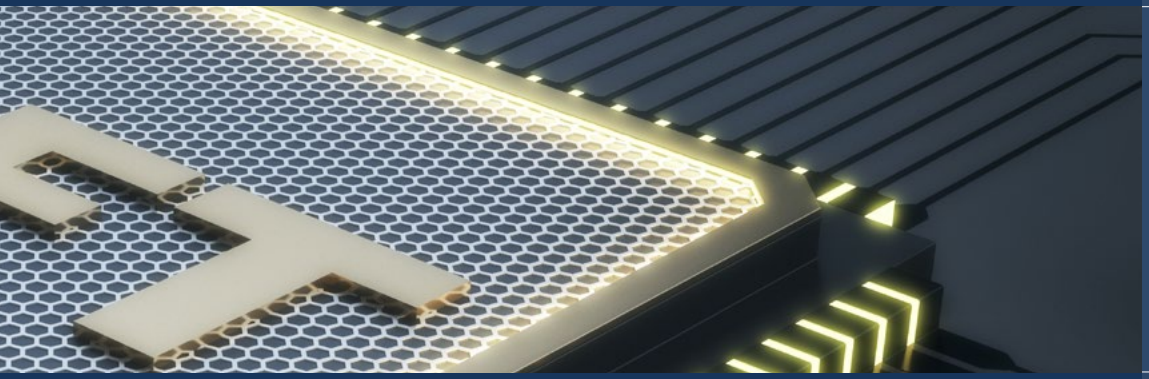
13 Analyze how Blockchain is applied when cryptocurrencies do not apply to the case study

14 Apply protocols based on their case study



15 Analyze different strategies

16 Analyze each potential investment candidate in a technical (graphs) and fundamental (projects) manner



17 Examine trading strategies based on market trends

18 Apply Blockchain compliance

19 Determine the regulatory standards that apply to the DLT

20 Analyze factors affecting cryptocurrency security

05

Skills

Mastering the crypto environment requires a broad and specialized knowledge of its many fundamentals and dimensions. For this reason, graduates who access this Executive Master's Degree in Cryptocurrency Trading will work in a theoretical and practical way to improve their skills in synthesis and analysis of information to develop strategies and consensus models that are beneficial to their economy. Thanks to that, they will develop a professional management of the oracles and the Wallets of the main digital assets that exist today.

Would you like to delve into the collateralization model as a guarantee principle in the crypto environment? Enroll in this Executive Master's Degree Executive Master's Degreeand delve into the keys to obtain a profitable digital wealth"

01 Determine the main types of threats to The assets

02 Learn to trace all movements of our cryptocurrencies

03 Categorize tokens applicable to projects

04 Examine project confidence parameters

05 Demonstrate, through resistances and supports, the trend lines of the markets

06 Propose systems that guarantee the efficiency of investments, cutting losses and maximizing profits

07 Create your own diversified portfolio and substantiate your performance

08 Substantiate the importance of document digitization and Blockchain certification and how to carry it out with distributed tools such as IPFS

09 Analyze criminal activity on the Internet

10 Create your own diversified portfolio and substantiate your performance

11 Determine cryptocurrency investment audiences

12 Analyze decision-making policies

13 Master DeFi's legal regulations

14 Address the present and future challenges of decentralized finance

15 Establish the differences between DeFi and Open Banking

16 Use the different test and maninet networks

17 Understand how Bitcoin works

18 Determine all Bitcoin stakeholders

19 Manage the use of wallets

20 Generate specialized knowledge about Ethereum

06

Structure and Content

The 100% online format of this Executive Master's Degree is a response to the demand from graduates for a degree adapted to their needs. Thus, they can access whenever they want and from wherever they want, without face-to-face classes or restricted schedules, and with the only requirement of having a device with an internet connection. In addition, in order to offer an educational experience adapted to the highest levels of demand, the program includes hundreds of hours of high-quality additional material for students to deepen in a personalized way in the different sections of the syllabus.

This program focuses on security as the basis for success, through the knowledge of the main protocols of the DeFi environment"

Syllabus

TECH has entrusted the development of the curriculum of this Executive Master's Degree in Cryptocurrency Trading to the teaching team, since, being formed by experts in the digital economy and decentralized finance environment, they have detailed knowledge of the developments oin the field. As a result, graduates.

will acquire the necessary knowledge to face challenges and take safe and successful business decisions in the field of cryptoeconomics. Throughout the 1,500 hours of training, specialists will work intensively on perfecting their managerial and leadership skills for enterprise Blockchain projects, gaining in-depth knowledge of DeFi protocols and strategies, as well as the Yield Farming and Liquidity Faming ecosystems. In addition, they will delve into the new crypto business models and the protocols of Landing, AMM and DEX as the keys to success.

It is, therefore, a unique and 100% online educational opportunity to give professionals' careers the the push they need to reach the top of this the pinnacle of this sector. Thanks to the degree of specialization that they will have acquired once they have completed the program, they will be able to include in their curriculum a distinctive feature that will undoubtedly make them stand out in any personnel selection process of prestigious companies thanks to the endorsement and the sophisticated reputation that characterizes this university.

This Executive Master's Degree takes place over 12 months and is divided into 10 modules:

Module 1.	Bitcoin. Origin of Cryptoeconomics
Module 2.	Ethereum: DeFi Basis
Module 3.	DeFi Ecosystem
Module 4.	DeFi Protocol Analysis
Module 5.	Cryptoeconomics
Module 6.	CorporateBlockchain
Module 7.	New Crypto Business Models Protocols
Module 8.	Investment Strategy Analysis
Module 9.	Compliance. Regulations and Crypto Privacy
Module 10	Cryptocurrency and Blockchain Security

Where, When and How is it Taught?

TECH offers the possibility of developing this Executive Master's Degree in Cryptocurrency Trading completely online. Over the course of 12 months, 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 and decisive to boost your professional development and make the definitive leap.

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

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

Module 2. Ethereum: DeFi Basis

2.1. Ethereum Basics
2.1.1. Ethereum
2.1.2. Ethereum Yellow paper
2.1.3. How Ethereum Works

2.2. Smart Contracts
2.2.1. Analysis of the Main Smart Contracts
2.2.2. Ethereum Deployment
2.2.3. Smart Contracts in DeFi

2.3. Tokens
2.3.1. ERC20 Tokens
2.3.2. ERC720 Tokens (nft tokens)
2.3.3. Other Token Standards

2.4. Consensus Model
2.4.1. Ethereum Consensus
2.4.2. Ethereum from POW to POS
2.4.3. POW Impact on DeFi

2.5. Ethereum Networks
2.5.1. Main Net
2.5.2. Test Net
2.5.3. Private Net

2.6. Ethereum Programming
2.6.1. Available Compilers
2.6.2. Solidity Applied to DeFi
2.6.3. Ganache and its utilities

2.7. Ethereum Components
2.7.1. Ethereum Virtual Machine
2.7.2. Accounts and Addresses
2.7.3. Ether the DeFi Currency

2.8. Ethereum DAOs and DAPPs
2.8.1. DAOs
2.8.2. Dapps
2.8.3. Main DAPPs in DeFi

2.9. Oracles
2.9.1. The Oracles
2.9.2. Oracle Types
2.9.3. Oracle Analysis

2.10. Ethereum Wallets
2.10.1. Types of Ethereum Wallets
2.10.2. Metamask
2.10.3. Advanced Use of DeFi Wallets

Module 3. DeFi Ecosystem

3.1. Decentralized Finance or DeFi Concept
3.1.1. Financial Ecosystems
3.1.2. DeFi Solutions: Transparency and Open Source
3.1.3. Dapps and Peer to Peer Concept

3.2. Main DeFi Networks
3.2.1. DeFi Stack on Ethereum
3.2.2. Polkadot
3.2.3. Other DeFi Networks

3.3. Centralized and Decentralized Market Makers
3.3.1. Centralized vs. Decentralized
3.3.2. Maker Dao
3.3.3. Work Environments or Frameworks

3.4. Centralized vs. Decentralized Economy
3.4.1. Centralized Theories
3.4.2. Decentralized Theories
3.4.3. Case Studies and Scenarios

3.5. Yield Farming
3.5.1. Decentralized Profitability
3.5.2. Yield Farming Case Studies
3.5.3. Project Analysis

3.6. Liquidity Mining
3.6.1. Liquidity Mining Benefits
3.6.2. Yield Farming Differences
3.6.3. Project Analysis

3.7. Collateralization as a Guaranty Principle
3.7.1. Collateralization
3.7.2. Best Collateralization Projects
3.7.3. Guarantees as Assets to Be Made Profitable

3.8. Leverage
3.8.1. When to Use Leverage
3.8.2. Differences between Leverage and Collateralization
3.8.3. Leverage and Volatility

3.9. Current Financial System and CBDCs
3.9.1. Central Banks and Cryptos
3.9.2. State Cryptocurrencies or CBDCs
3.9.3. Future Scenario Theories

3.10. Asset Tokenization
3.10.1. Real Estate Assets
3.10.2. Works of Art
3.10.3. Creative Capacity as a Source of Wealth
3.10.4. Management of New Financial Instruments

Module 4. DeFi Protocol Analysis

4.1. Stablecoins
4.1.1. Stablecoin Impact on the DeFi Ecosystem
4.1.2. Stablecoins PEGGED
4.1.3. Algorithmic Stablecoins
4.1.4. Terra's Failure

4.2. Decentralized Exchanges
4.2.1. Principles of AACS
4.2.2. Uniswap
4.2.3. SushiSwap
4.2.4. Balancer

4.3. DeFi Interchain Applications
4.3.1. A Multichain Future
4.3.2. Layer 2
4.3.3. Layer 2 Limitations
4.3.4. CrossChain (Bridges)

4.4. ParaChain DeFi and Bridges Applications
4.4.1. Oracles
4.4.2. Cosmos and Polkadot (ICC)
4.4.3. Limitations of Creating Your Own Blockchain
4.4.4. Omnichain

4.5. Loans, Collateralization and Interest
4.5.1. Lending Crypto
4.5.2. Collateralization
4.5.3. Fixed Interest Rate
4.5.4. Aave and Compound
4.5.5. DeFi for Good

4.6. DeFi Insurance
4.6.1. How DeFi Insurance Works
4.6.2. Relevant DeFi Insurance Protocols
4.6.3. KYC Insurance

4.7. NFTs and DeFi
4.7.1. NFT Characteristics in DeFi
4.7.2. NFT Structure
4.7.3. Collateralization
4.7.4. Marketplaces

4.8. DeFi Analysis Tools
4.8.1. DeFi Protocol Analysis
4.8.2. Main DeFi Analysis Tools
4.8.3. Best Practices for Interpreting Information

4.9. Metaverse and Blockchain
4.9.1. The Ultimate DeFi Application
4.9.2. NFTs as Virtual Properties
4.9.3. Tokens as a Course Currency
4.9.4. Current Metaverses

4.10. Decentralized Finance Risks
4.10.1. DeFi 2.0 and the Ponzi Scheme
4.10.2. Hacking smart contracts
4.10.3. Rug Pulls
4.10.4. Impermanent Loss

Module 5. Cryptoeconomics

5.1. Cryptocurrencies and Money
5.1.1. Fiat Money. Operation
5.1.2. Bitcoin vs. Ethereum. The rest
5.1.3. The Role of Stable Currencies

5.2. Central Banks and CBDCs
5.2.1. CBDCs
5.2.2. The Digital Yuan Case
5.2.3. Bitcoin vs. CBDCs
5.2.4. El Salvador

5.3. Blockchain Evaluation and Valorization
5.3.1. Cash Flow Method
5.3.2. Country Method
5.3.3. Technical Analysis vs. Fundamental Analysis

5.4. Wallets
5.4.1. Wallets. Key Elements
5.4.2. Protected Wallets
5.4.3. Unprotected Wallets
5.4.4. Wallets Promoted by Countries

5.5. Tokenomics
5.5.1. Tokenomics. Importance
5.5.2. NFTs or Tokens
5.5.3. Type of Tokens Utility vs. Security vs. Governance

5.6. Web3 Economics
5.6.1. Cryptocurrencies. New Economy Basis
5.6.2. NFTs and Games
5.6.3. NFTs y Communities
5.6.4. Combined Models of NFTs and Tokens

5.7. Digital Identity
5.7.1. Cryptos as a Paradigm of Digital Identity
5.7.2. Digital Identity and DeFi
5.7.3. Soul bound NFTs

5.8. New Banking
5.8.1. Crypto Banks
5.8.2. Crypto Loans
5.8.3. Crypto Interests
5.8.4. Banking System Evolution

5.9. Crypto Project Launch
5.9.1. ICO
5.9.2. IDO
5.9.3. ILO
5.9.4. NFTs
5.9.5. Tokenomics and Superfluid

5.10. Medium-Term Paradigms
5.10.1. Quantum Computing
5.10.2. Big Data and Blockchain
5.10.3. Decentralization Utopia

Module 6. Corporate Blockchain

6.1. Platform Types, Characteristics and Voting Process
6.1.1. Consensual Blockchain
6.1.2. Participatory Blockchain
6.1.3. Democratic Blockchain

6.2. Hyperledger, Enterprise Blockchain Platform
6.2.1. Hyperledger Ecosystem
6.2.2. Hyperledger Fabric
6.2.3. Community. Hyperledger Labs

6.3. Corporate Case Studies
6.3.1. Blockchain in the Company
6.3.2. Blockchain-Based Consortia and Joint Ventures
6.3.3. Production Case Studies

6.4. Traceability
6.4.1. Blockchain Traceability
6.4.2. Immutability and GDPR Conflict
6.4.3. Legal Validity

6.5. Document Certification
6.5.1. Digitalization and Blockchain
6.5.2. Blockchain Certification
6.5.3. IPFS

6.6. Blockchain + IoT
6.6.1. Synergy between Technologies
6.6.2. Blockchain + IoT Applications in the Pharmaceutical Industry
6.6.3. Blockchain + IoT Applications in Supply Chain

6.7. Other Corporate Blockchain
6.7.1. Corda
6.7.2. Quorum
6.7.3. Hyperledger Besu
6.7.4. Blockchain as a Service

6.8. Risks: Case Studies by Sector
6.8.1. Blockchain in Banking
6.8.2. Blockchain in Retail
6.8.3. Blockchain in the Public Sector

6.9. Private Network Consensus
6.9.1. BFT / IBFT
6.9.2. Raft
6.9.3. Granpa (Polkadot/Substrate)

6.10. Blockchain Vs. Centralized Databases vs. Decentralized Databases
6.10.1. Differences
6.10.2. Similarities
6.10.3. The Best Technological Alternative Choice

Module 7. New Crypto Business Models Protocols

7.1. DeFi Protocol Analysis on Bitcoin
7.1.1. DeFi on Bitcoin
7.1.2. Lightning Network
7.1.3. RSK

7.2. Analysis of Landing Protocols
7.2.1. Main Landing Protocols
7.2.2. Case Uses
7.2.3. Landing in Crypto Projects vs. No crypto

7.3. AMM Protocol Analysis
7.3.1. Main AMM Protocols
7.3.2. Case Uses
7.3.3. Differences Between Landing and AMM

7.4. DEX Protocol Analysis
7.4.1. Main DEX Protocols
7.4.2. Case Uses
7.4.3. BPO Vs. CEX

7.5. Information and Resource Silos
7.5.1. Information Silos
7.5.2. Crypto Silos Creation. Advantages
7.5.3. Real World Uses of Information Silos

7.6. Protocol Analysis: Liquidity Mining and Yield Farming
7.6.1. 7.6 Protocol Analysis:
7.6.2. Yield Farming Under the Hook
7.6.3. Tactics of Use According to Asset

7.7. Insurance Protocol Analysis
7.7.1. Main Insurance Protocols
7.7.2. Case Uses
7.7.3. Secure Protocol Creation

7.8. Investment Funds
7.8.1. Investment Funds
7.8.2. Crypto Investment Fund Analysis
7.8.3. Crypto Investment Fund Analysis

7.9. Composite Strategies
7.9.1. Cryptocurrency Trading
7.9.2. Strategy Analysis
7.9.3. Use Criteria for Strategies

7.10. Portfolio Analysis, Balancing and Protection
7.10.1. Cryptocurrency Wallets
7.10.2. Asset Analysis
7.10.3. Balancing and Protection Strategies

Module 8. Investment Strategy Analysis

8.1. Exchange Analysis
8.1.1. Main Competitors
8.1.2. Identification Procedures
8.1.3. Order Types

8.2. DeFi Alternative Markets (Pancake Swap)
8.2.1. Market Players
8.2.2. DeFi Typology
8.2.3. Cash Flow Pools

8.3. Crypto Investment Models
8.3.1. Yield Farming
8.3.2. Flash Loans
8.3.3. CFD Trading

8.4. Coin Stacking
8.4.1. The Right Choice
8.4.2. Temporariness
8.4.3. Masternodes

8.5. Farming
8.5.1. New Economy Model
8.5.2. Time as a Partner
8.5.3. Advanced Farming Platform Analysis

8.6. Configuration of an Investment Portfolio
8.6.1. Market Efficiency
8.6.2. Volatility Frontier Portfolio
8.6.3. Volatility Positioning

8.7. Crypto Arbitration
8.7.1. Technology and its "Slots"
8.7.2. Market Disagreements
8.7.3. Risk Limitation Techniques

8.8. NFTs Architecture
8.8.1. Fungible vs. Non-Fungible
8.8.2. NFTs on Web3
8.8.3. Architecture of a NFT System

8.9. NFT Operations
8.9.1. Create, Buy and Sell NFTs
8.9.2. NFTs and Sport
8.9.3. NFTs and the Immediate Future

8.10. Decision-Making and Risk Management
8.10.1. On-Chain Metrics
8.10.2. Project Metrics
8.10.3. Financial Metrics

Module 9. Compliance. Regulations and Crypto Privacy

9.1. Digital Identity
9.1.1. Digital Identity Transformation
9.1.2. Self-Sovereign Identity
9.1.3. Regulatory Framework in the Different International Legal Systems

9.2. Digital Signature
9.2.1. Electronic Signature
9.2.2. Digital Certificate
9.2.3. Certification Authorities

9.3. Compliance
9.3.1. Compliance
9.3.2. Blockchain Compliance
9.3.3. Compliance Models

9.4. Cryptos and Icos Legality
9.4.1. Regulatory Framework
9.4.2. ICOS Launch
9.4.3. From ICOS to IDOS

9.5. Taxation Cryptos
9.5.1. Tax Treatment of Cryptoassets in the European Union Legal System
9.5.2. Crypto-Asset Taxation Consultations
9.5.3. Tax Accounting Treatment in the European Union

9.6. International Regulation in the Different Jurisdictions Regarding the Holding of Cryptoassets Special Treatment in the Americas
9.6.1. MICA
9.6.2. DORA
9.6.3. EIDAS
9.6.4. The Future of Cryptos According to the European Commission

9.7. Cybersecurity
9.7.1. Cybersecurity in Blockchain
9.7.2. Decentralization
9.7.3. Blue Team

9.8. Ethics and Digital Errors
9.8.1. Good Faith in the Legality of U.S. Projects
9.8.2. Digital Transformation Mistakes
9.8.3. Structuring Parameters in the Organization

9.9. Regtech and Legaltech Solutions
9.9.1. REGTECH Solutions
9.9.2. LEGALTECH Solutions
9.9.3. Practical Examples

9.10. Blockchain Certificates
9.10.1. Blockchain Certification
9.10.2. Sector Business Opportunity
9.10.3. BlockTac

Module 10. Cryptocurrency and Blockchain Security

10.1. Cryptocurrency Security
10.1.1. Cryptography, Blockchain Basis
10.1.2. Hash Functions
10.1.3. Public and Private Keys, Uses in Cryptocurrencies

10.2. Privacy and Traceability in Operations
10.2.1. Analysis and Traceability of Cryptocurrency Transactions
10.2.2. Anonymity Techniques (Proxy, VPN)
10.2.3. Digital Identity

10.3. TOR Network. Security/Safety
10.3.1. TOR Networks
10.3.2. Network Connections and Nodes
10.3.3. Freenet and IP2

10.4. VPNs. Security/Safety
10.4.1. VPNs. Operation
10.4.2. Types, Characteristics and Properties
10.4.3. User Profile and Authentication

10.5. User Management and Permits
10.5.1. Access Rights Management
10.5.2. Segregation of Roles and Access Functions
10.5.3. Implementation of Access Rights in Systems

10.6. Wallet Transaction Security
10.6.1. Hot and Cold Wallets
10.6.2. Hardware and Software Wallet Transactions
10.6.3. Multi-Signature

10.7. Cybersecurity and Cryptocurrencies
10.7.1. The Pillars of Security in Cryptocurrencies and Tokens
10.7.2. Risk, Threat and Vulnerability Assessment
10.7.3. Minimum Privileges Law Differences and Similarities between Europe and America

10.8. SSO y MFA
10.8.1. Single Sign On
10.8.2. Logical Access Control. MFA Authentication
10.8.3. Passwords. Importance
10.8.4. Authentication Attacks

10.9. Safe Custody of Crypto Assets
10.9.1. Differences between Exchange and wallet
10.9.2. Public Keys, Private Keys and Seed or Seed Phrases
10.9.3. Shared Custody

10.10. Cryptocurrency Hackers
10.10.1. Types of Crypto Attacks
10.10.2. Cryptocurrency Security Standards
10.10.3. Preventing Attacks on your Cryptocurrencies

07

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.

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.

Relearning Methodology

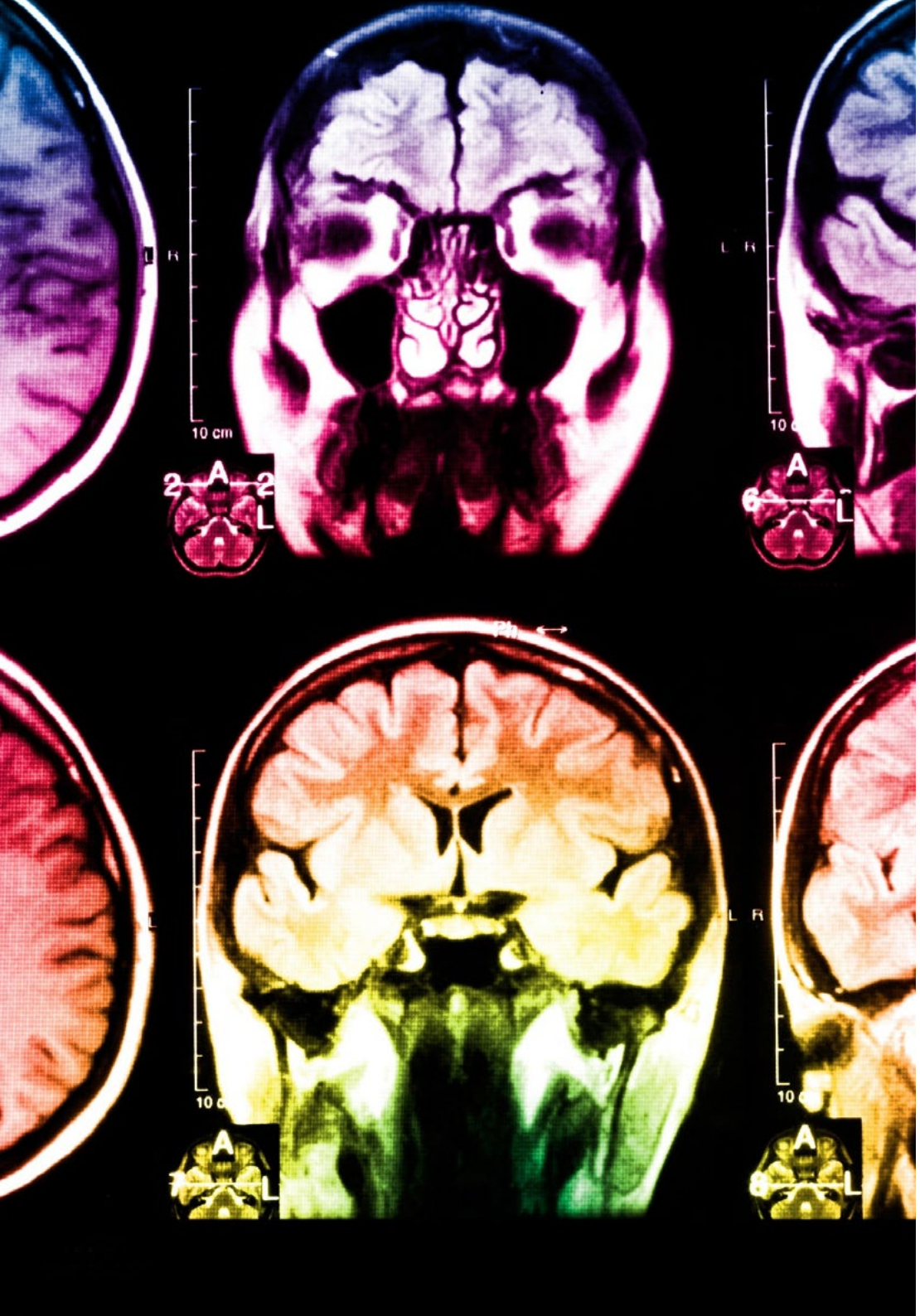
TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

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.

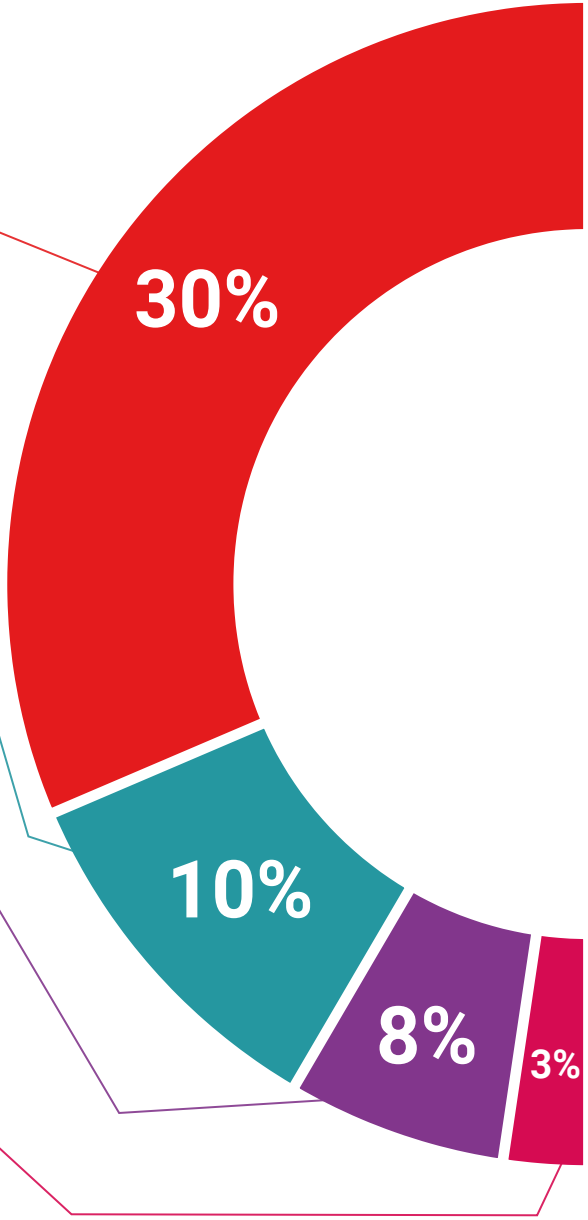
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.

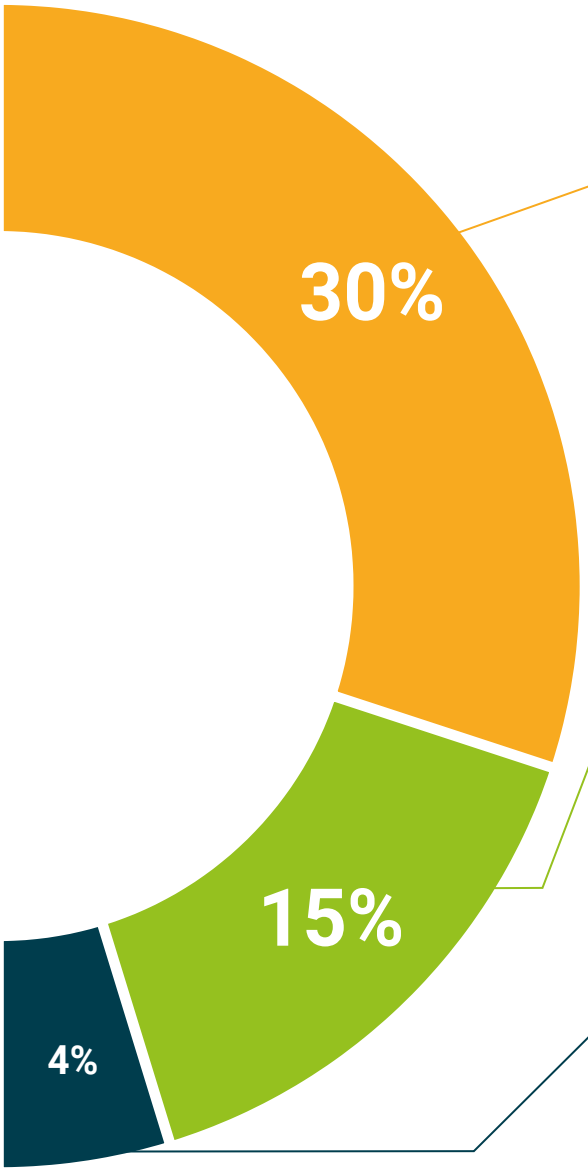
Management Skills Exercises

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.

08

Our Students' Profiles

The program is aimed at university graduates who have previously obtained any of the following degrees in the field of social and legal sciences, administration and economics. The diversity of participants with different academic profiles and from multiple nationalities makes up the multidisciplinary approach of this program. The Executive Master's Degree may also be taken by professionals who, being university graduates in any area, have two years of work experience in the field of Blockchain and economic consulting.

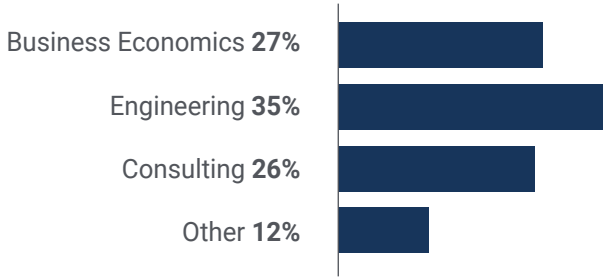
The only requirement you must meet to get the most out of this Executive Master's Degreeis to want to master crypto investment models and succeed in the financial environment of digital assets"

Average Age

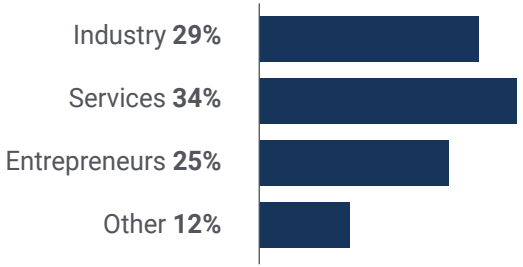
Between **35** and **45** years old

Years of Experience

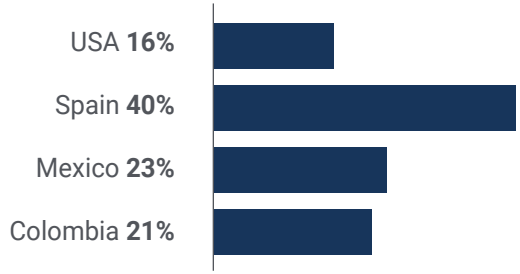
Training



Academic Profile



Geographical Distribution



Rodrigo Álvarez

Trader in Crypto and Decentralized Markets

"If I had to highlight something about this program, it would undoubtedly be the very high level I have acquired in the management of Cryptocurrency Trading thanks to the completeness of its content. It is an educational experience that not only provides you with all the information related to DeFi ecosystems and the Blockchain environment, but also teaches you the best strategies to succeed in this industry."

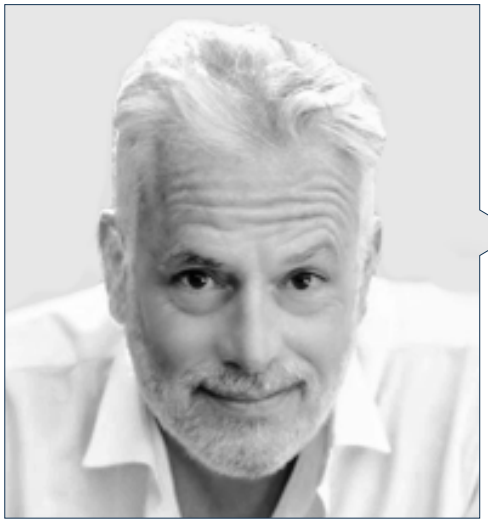
09

Course Management

In order to create an educational experience of the highest level, TECH has selected a cadre of faculty versed in digital venture investing for this program. for this program a cadre of faculty versed in digital investment risk in the crypto world. Thanks to the high degree of specialization of these professionals, it has been possible to develop a program based on the latest developments in this sector, which will serve as a guide to the graduates from the beginning of the program and forever on their way to achieve on their way to business success. In addition, the faculty will be available during the 12 months of the program to resolve, through the Virtual Campus, any doubts that may arise during the course of the qualification.

The teaching team has selected real success stories to analyze and learn from the successful strategies of industry giants such as Chris Larsen or Joseph Lubin"

Management



Mr. 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 Karwowska, Antonio

- Full Stack Web3 Developer for FRK Investments
- Web3 Analyst for BeToken Capital
- Development Manager at NFT42
- Analyst specialized in DeFi protocols
- MATLAB programmer internship at CSIC
- Graduate in Physical Sciences from the Complutense University of Madrid

Mr. Martín Arenas, Carlos

- Blockchain Architect and Developer at Esferize
- Architect and Blockchain developer at Transfesa Logistics
- Blockchain Developer and Consultant at Sopra Steria
- Founding partner of ADNBLOCK
- Superior Technician in Computer Applications Development by Joyfe College
- Expert in Bitcoin and Blockchain programming by UEM

Mr. Martín Arenas, Daniel

- Blockchain Developer at Dimática Software Development
- Blockchain Developer and Consultant at Sopra Steria
- Programmer at Cibernos
- Founding partner of ADNBLOCK
- Superior Technician in Computer Applications Development by Joyfe College
- Master's Degree in Blockchain Technology and Bitcoin from the European University of Madrid
- Professional Certificate in Software Development from the IES Melchor Gaspar de Jovellanos High School

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 National University of Distance Education (UNED)

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 Branches, 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

Mr. Gómez García, Fernando

- DEYDE Data Quality Infrastructure Manager
- Systems and Security Administrator at IDEGroup
- Nutrytec Laboratorios SA Systems Manager
- Systems analyst at AT LEAST SA
- Professor of Blockchain Technology in various higher education programs
- Bitcoin and Blockchain Expert Postgraduate Degree by the EU European University
- Advanced Course in Security Management by the Universidad Rey Juan Carlos
- Degree in Computer Engineering from the Distance University of Madrid

10

Impact on Your Career

The cryptocurrency market is booming, so the demand for professionals who master this field has grown exponentially. For that reason, graduates who access this Executive Master's Degree will be guaranteed a successful working future in decentralized digital finance. Having this qualification on their resume, endorsed by a major university of international prestige such as TECH, will undoubtedly allow them to stand out in any job interview.

A qualification that, thanks to its very high level, will mark a before and after in your professional career as a trader"

The best program to specialize in buying and selling digital assets and increase your earnings considerably is this one. Are you going to let this opportunity pass by?.

Are you ready to take the leap? An excellent professional improvement awaits you

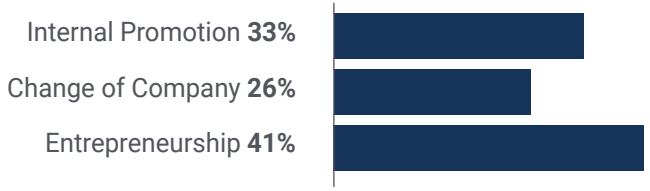
TECH's Executive Master's Degree in Cryptocurrency Trading is an intensive program that prepares professionals to face challenges and business decisions in the field of management and direction of digital and virtual environments. The main objective is to promote personal and professional growth. Helping students achieve success.

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

The mastery you will acquire of NFT trading will shape you as a reputable crypto professional in today's business environment.

When the change occurs

Type of change



Salary increase

This program represents a salary increase of more than **27.42%** for our students.

11

Benefits for Your Company

This program is designed to enable professionals to develop the skills of a top-level expert in crypto-economy trading. Thanks to the course, graduates will acquire a unique set of skills that will enable them to act in a feasible, arduous and successful way in any type of situation, including the most complex ones. In addition, they will develop into highly qualified managers capable of taking on any project related to the Blockchain, DeFi or tokens with confidence and leadership.

The growth your business will experience once you start applying the trading strategies included in this Executive Master's Degree will make you rethink why you didn't choose it sooner"

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

01

Intellectual Capital and Talent Growth

Professionals will bring to the company new concepts, strategies and perspectives that can bring about relevant changes in the organization.

02

Retaining high-potential executives to avoid talent drain

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

03

Implementation of Effective Strategies and Techniques

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

04

Increased Intervention Possibilities

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

05

Project Development

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

06

Increased competitiveness

This Executive Master's Degree will equip students with the skills to take on new challenges and drive the organization forward.

12

Certificate

The Executive Master's Degree in Cryptocurrency Trading guarantees students, in addition to the most rigorous and up-to-date education, access to a Executive Master's Degree issued by TECH Technological University.

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

This **Executive Master's Degree in Cryptocurrency Trading** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Executive Master's Degree** issued by **TECH Technological University.**

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Executive Master's Degree, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Executive Master's Degree in Cryptocurrency Trading**

Official N° of hours: **1,500 h.**


tech technological university

Awards the following

DIPLOMA

to

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

For having successfully passed and accredited the following program

EXECUTIVE MASTER'S DEGREE

in

Cryptocurrency Trading

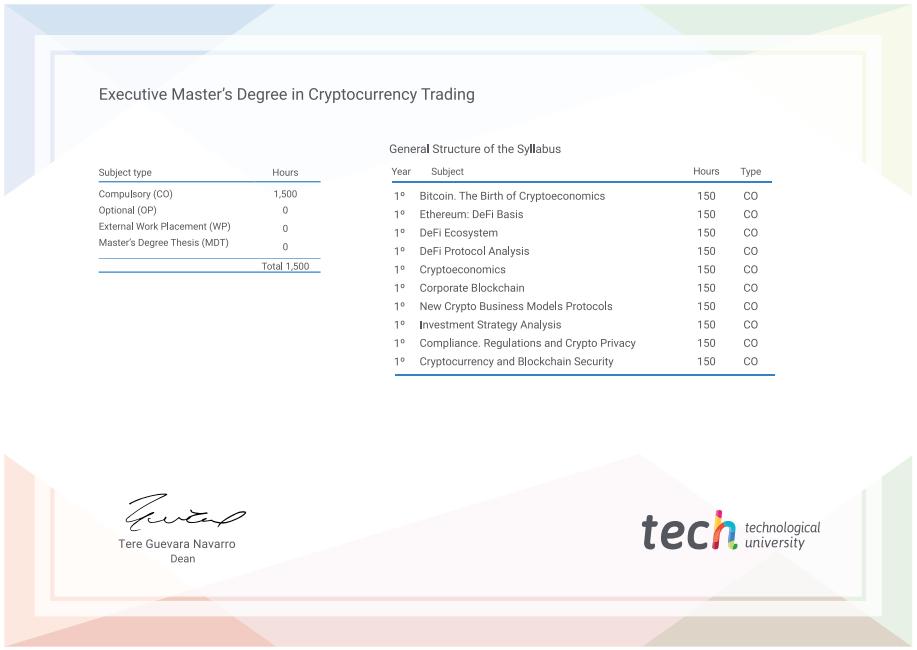
This is a qualification awarded by this University, equivalent to 1,500 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

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


Executive Master's Degree in Cryptocurrency Trading

Subject type	Hours
Compulsory (CO)	1,500
Optional (OP)	0
External Work Placement (WP)	0
Master's Degree Thesis (MDT)	0
	Total 1,500

General Structure of the Syllabus

Year	Subject	Hours	Type
1º	Bitcoin. The Birth of Cryptoeconomics	150	CO
1º	Ethereum: DeFi Basis	150	CO
1º	DeFi Ecosystem	150	CO
1º	DeFi Protocol Analysis	150	CO
1º	Cryptoeconomics	150	CO
1º	Corporate Blockchain	150	CO
1º	New Crypto Business Models Protocols	150	CO
1º	Investment Strategy Analysis	150	CO
1º	Compliance. Regulations and Crypto Privacy	150	CO
1º	Cryptocurrency and Blockchain Security	150	CO

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Dean

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

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Executive Master's Degree
Cryptocurrency Trading

- Modality: **online**
- Duration: **12 months**
- Certificate: **TECH Technological University**
- Dedication: **16h/week**
- Schedule: **at your own pace**
- Exams: **online**

Executive Master's Degree

Cryptocurrency Trading

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