Professional Master's Degree

MBA in Advanced Cybersecurity Management (CISO)

tech global university

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Professional Master's Degree
MBA in Advanced Cybersecurity Management (CISO)

- Modality: **online**
- Duration: **12 months**
- Certificate: **TECH Global University**
- Accreditation: **90 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Website: www.techtitute.com/us/information-technology/professional-master-degree/master-advanced-cybersecurity-management

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01

Introduction

Today's world is moving towards complete digitalization. More and more processes, operations and basic tasks of all kinds are being performed through an electronic device. But this progress also has certain risks, as computers, smartphones, tablets and all kinds of digital applications can be susceptible to cyber attacks. For that reason, many companies are looking for experts who can effectively lead and manage the cybersecurity of their services. Therefore, this new professional profile is in great demand, so this program has been designed to provide the latest knowledge and techniques to the computer scientist, who will be prepared to be the director of cybersecurity in any company that requires it.

This program will prepare you intensively to specialize in cybersecurity management, the most demanded professional profile in the IT field today"

In recent years, the digitization process has accelerated, driven by the continuous advances in information technology. Thus, not only technology has enjoyed great improvements, but also the digital tools themselves with which many tasks are performed today. For example, these advances have made it possible for many banking operations to be carried out from a mobile application. There have also been new developments in the healthcare field, in appointment systems or in access to medical records. In addition, thanks to these technologies, it is possible to consult invoices or request services from companies in areas such as telephony.

But these advances have also led to an increase in computer vulnerabilities. Thus, while the options for performing various activities and tasks have expanded, attacks on the security of devices, applications and websites have increased proportionally. As a result, more and more companies are looking for cybersecurity professionals who are able to provide them with adequate protection against all types of cyber attacks.

Thus, the profile of Cybersecurity Manager is one of the most sought after by companies that operate on the Internet or have services in the digital environment. And to respond to this demand, TECH has designed this Professional MBA in Advanced Cybersecurity Management (CISO), which will provide the computer scientist with all the necessary tools to exercise this position effectively and taking into account the latest developments in protection and vulnerabilities in this technological field.

In this program you will be able to delve into aspects such as security in the development and design of systems, techniques or security in Cloud Computing environments. And you will do so through a 100% online methodology with which you will be able to combine your professional work with your studies, without rigid schedules or uncomfortable trips to an academic center. In addition, you will enjoy numerous multimedia teaching resources, taught by the most prestigious and specialized faculty in the filed of cybersecurity.

This **MBA in Advanced Cybersecurity Management (CISO)** contains the most complete and up-to-date program on the market. The most important features include:

- Case studies presented by IT and cybersecurity experts
- The graphic, schematic, and practical contents with which they are created, provide scientific and 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 work
- Content that is accessible from any fixed or portable device with an Internet connection

Learn, first hand, the best security techniques applied to Cloud Computing environments or Blockchain technology"

You will enjoy numerous multimedia contents to speed up your learning process, while receiving the support of a faculty of great prestige in the field of cybersecurity"

TECH's online methodology will allow you to choose the time and place to study, without hindering your professional work.

You will be able to become the Cybersecurity Manager of the best companies in your field.

The program includes, in its teaching staff, professionals of the sector who pour in this training the experience of their work, in addition to recognized specialists of reference 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 prepare for 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 course. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

02

Objectives

The rapid development of information technologies has brought great advances, providing numerous services to the population as a whole. However, the number of vulnerabilities and cyber-attacks has also increased, so the main objective of this program is to turn the computer scientist into a true specialist in cybersecurity management, guaranteeing them a huge and immediate professional progress. Your new skills will provide you with the opportunity to gain access to large companies operating digitally in various sectors.

The objective of this program is to make you a professional prepared to lead the cybersecurity department of a large company"

General Objectives

- Generate specialized knowledge about an information system, types and security aspects that must be taken into account
- Identify the vulnerabilities of an information system
- Develop the legal regulation and typification of the crime attacking an information system
- Evaluate the different models of security architecture to establish the most suitable model for the organization
- Identify the regulatory frameworks of application and their regulatory bases
- Analyze the organizational and functional structure of an information security area (the CISO's office)
- Analyze and develop the concept of risk and uncertainty within the environment in which we live
- Examine the Risk Management Model based on ISO 31.000
- Examine the science of cryptology and the relationship to its branches: cryptography, cryptanalysis, steganography and stegoanalysis
- Analyze the types of cryptography according to the type of algorithm and according to its use
- Examine digital certificates
- Examining the Public Key Infrastructure (PKI)
- Develop the concept of identity management
- Identify authentication methods
- Generate specialized knowledge about the IT security ecosystem
- Assess knowledge in terms of cybersecurity
- Identify the areas of Cloudsecurity
- Analyze the services and tools in each of the security areas.
- Develop the security specifications of each LPWAN technology
- Analyze comparatively the security of LPWAN technologies

Your professional goals are now within your reach thanks to this Professional Master's Degree, which provides the most advanced knowledge in cybersecurity"

Specific Objectives

Module 1. Security in System Design and Development

- Assess the security of an information system in all its components and layers
- Identify current security threat types and trends
- Establish security guidelines by defining security and contingency policies and plans
- Analyze strategies and tools to ensure the integrity and security of information systems
- Apply specific techniques and tools for each type of attack or security vulnerability
- Protect sensitive information stored in the information system
- Have the legal framework and typification of the crime, completing the vision with the typification of the offender and his victim

Module 2. Information Security Architectures and Models

- Align the Safety Master Plan with the organization's strategic objectives
- Establish a continuous risk management framework as an integral part of the Master Security Plan
- Determine appropriate indicators for monitoring ISMS implementation
- Establish a policy-based security strategy
- Analyze the objectives and procedures associated with the employee, supplier and partner awareness plan
- Identify, within the regulatory framework, the regulations, certifications and laws applicable to each organization
- Develop the fundamental elements required by the ISO 27001:2013 standard
- Implement a privacy management model in line with the European GDPR/RGPD regulation

Module 3. IT Security Management

- Identify the different structures that an information security area can have

- Develop a security model based on three lines of defense
- Present the different periodic and extraordinary committees in which the cybersecurity area is involved
- Specify the technological tools that support the main functions of the security operations team (SOC)
- Evaluate vulnerability control measures appropriate to each scenario
- Develop the security operations framework based on the NIST CSF
- Specify the scope of the different types of audits (Red Team, Pentesting, Bug Bounty, etc.)
- Propose the activities to be carried out after a security incident
- Set up an information security command center that encompasses all relevant stakeholders (authorities, customers, suppliers, etc.)

Module 4. Risk Analysis and IT Security Environment

- Examine, with a holistic view, the environment in which we operate
- Identify the main risks and opportunities that may affect the achievement of our objectives
- Analyze the risks based on the best practices at our disposal
- Evaluate the potential impact of these risks and opportunities
- Develop techniques to deal with risks and opportunities in a way that maximizes value contribution
- Examine in depth the different techniques for transferring risk and value
- Generate value from the design of proprietary models for agile risk management
- Examine the results to propose continuous improvements in project and process management based on Risk-Driven management models
- Innovate and transform general data into relevant information for risk-based decision making

Module 5. Cryptography in IT

- Compile the fundamental operations (XOR, large numbers, substitution and transposition) and the various components (One-Way functions, Hash, random number generators)
- Analyze cryptographic techniques
- Develop the different cryptographic algorithms
- Demonstrate the use of digital signatures and their application in digital certificates
- Assess key management systems and the importance of cryptographic key lengths
- Examine key derivation algorithms
- Analyze key life cycle
- Evaluate block cipher and stream cipher modes
- Determine pseudorandom number generators
- Develop real-world cryptography application cases, such as Kerberos, PGP or smart cards
- Examine related associations and organizations, such as ISO, NIST or NCSC
- Determine the challenges in quantum computing cryptography

Module 6. Identity and Access Management in IT security

- Develop the concept of digital identity
- Evaluate physical access control to information
- Fundamentals of biometric authentication and MFA authentication
- Evaluate attacks related to information confidentiality
- Analyze identity federation
- Establish network access control

Module 7. Security in Communications and Software Operation

- Develop expertise in physical and logical security
- Demonstrate knowledge of communications and networks
- Identify major malicious attacks
- Establish a secure development framework
- Demonstrate knowledge of the main information security management system regulations
- Support the operation of a cybersecurity operations center
- Demonstrate the importance of having cybersecurity practices for organizational disasters

Module 8. Security in Cloud Environments

- Identify risks of a public cloud infrastructure deployment
- Define security requirements
- Develop a security plan for a cloud deployment
- Identify the cloud services to be deployed for the execution of a security plan
- Determine the operations necessary for the prevention mechanisms
- Establish guidelines for a Logging and monitoring system
- Propose incident response actions

Module 9. Security in IoT Device Communications

- Introduce the simplified IoT architecture
- Explain the differences between generalist connectivity technologies and connectivity technologies for the IoT
- Establish the concept of the iron triangle of IoT connectivity
- Analyze the security specifications of LoRaWAN technology, NB-IoT technology and WiSUN technology
- Justify the choice of the appropriate IoT technology for each project

Module 10. Business Continuity Plan Associated with Security

- Present the key elements of each phase and analyze the characteristics of the Business Continuity Plan (BCP)
- Justify the need for a Business Continuity Plan
- Determine the success and risk maps for each phase of the Business Continuity Plan
- Specify how to establish an Action Plan for implementation
- Evaluate the completeness of a Business Continuity Plan (BCP)
- Develop a plan for the successful implementation of a Business Continuity Plan

Module 11. Leadership, Ethics and Social Responsibility in Companies

- Analyze the impact of globalization on corporate governance and corporate management
- Evaluate the importance of effective leadership in the management and success of companies
- Define cross-cultural management strategies and their relevance in diverse business environments
- Develop leadership skills and understand the current challenges faced by leaders
- Determine the principles and practices of business ethics and their application in corporate decision making
- Structure strategies for the implementation and improvement of sustainability and social responsibility in business

Module 12. People and Talent Management

- Determine the relationship between strategic direction and human resources management
- Delve into the skills required for effective competency-based human resources management
- Delve into the methodologies for performance evaluation and performance management
- Integrate innovations in talent management and their impact on employee retention and loyalty
- Develop strategies for motivation and development of high performance teams
- Propose effective solutions for change management and conflict resolution in organizations

Module 13. Economic and Financial Management

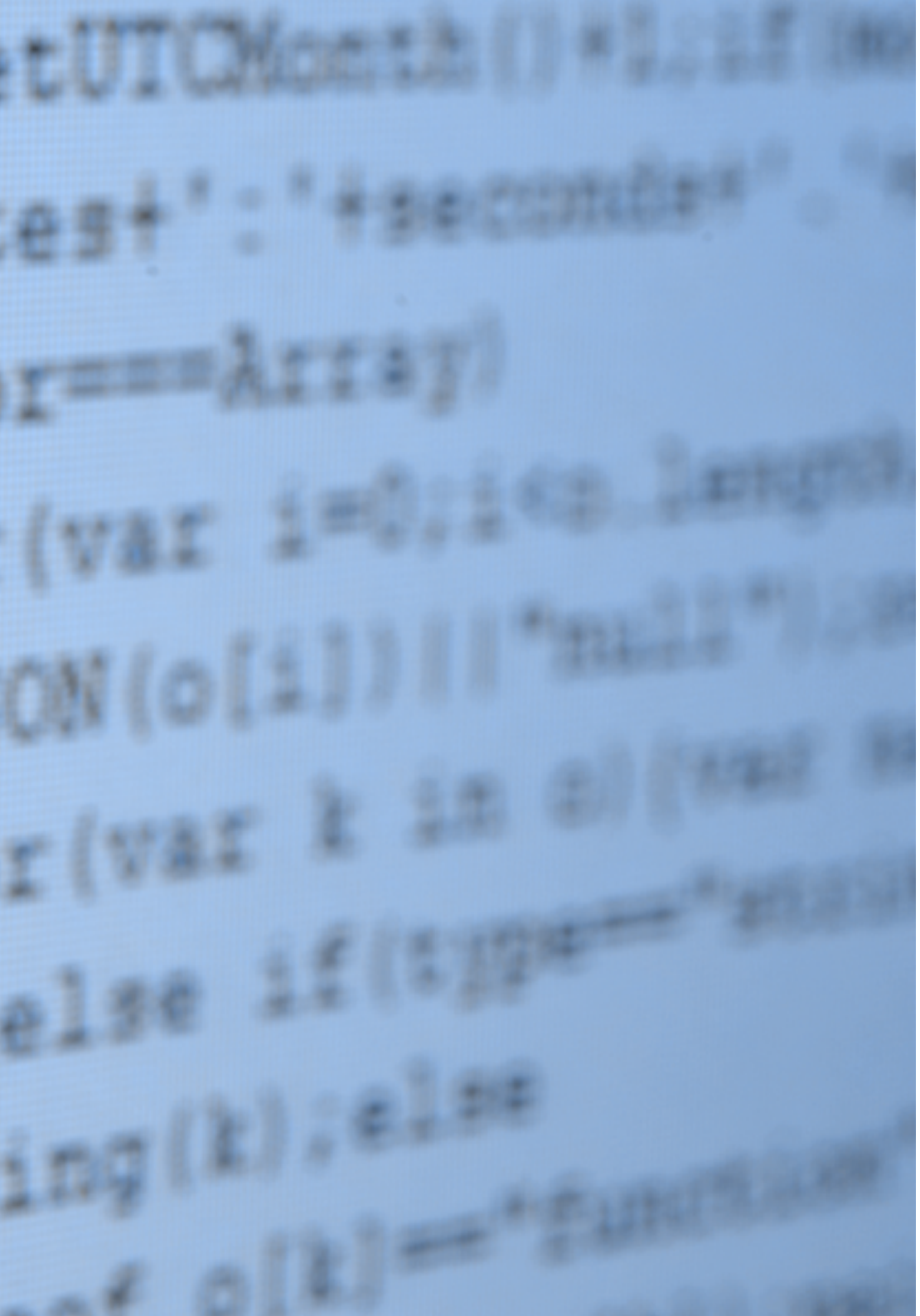
- Analyze the macroeconomic environment and its influence on the national and international financial system
- Define information systems and Business Intelligence for financial decision making
- Differentiate key financial decisions and risk management in financial management
- Evaluate strategies for financial planning and obtaining business financing

Module 14. Commercial Management and Strategic Marketing

- Structure the conceptual framework and the importance of commercial management in companies
- Delve into the fundamental elements and activities of marketing and their impact on the organization
- Determine the stages of the marketing strategic planning process
- Evaluate strategies to improve corporate communication and the digital reputation of the company

Module 15. Executive Management

- Define the concept of General Management and its relevance in business management
- Evaluate the roles and responsibilities of the manager in the organizational culture
- Analyze the importance of operations management and quality management in the value chain
- Develop interpersonal communication and public speaking skills for the formation of spokespersons



Your professional goals are now within your reach thanks to this Professional Master's Degree, which provides the most advanced knowledge in cybersecurity"

03

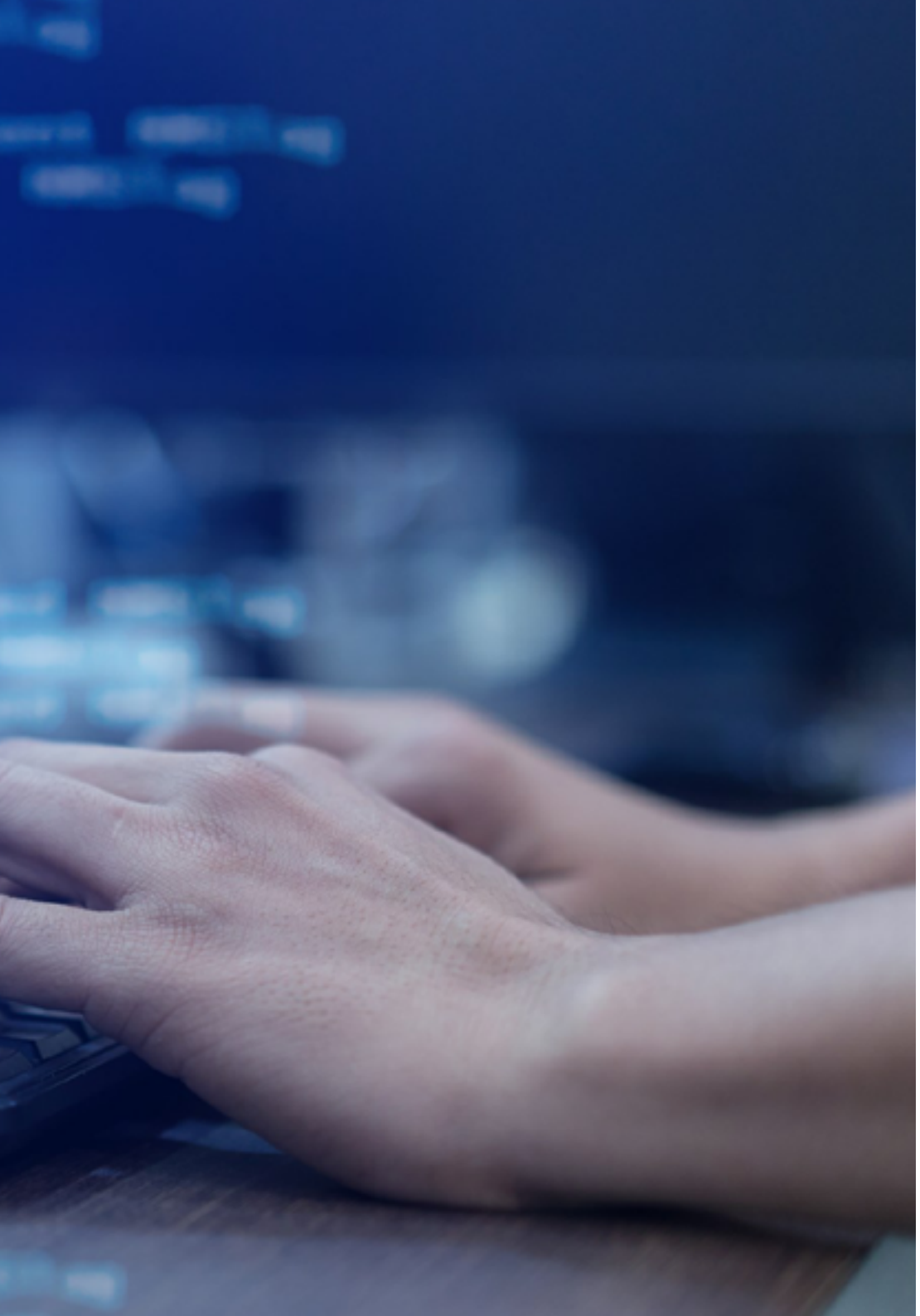
Skills

Thanks to this Professional Master's Degree, the professional will acquire numerous new skills in the field of cybersecurity. The emergence in the last few years of technologies such as the *Blockchain*, *Cloud Computing*or artificial intelligence has led to the development of new areas of cybersecurity. For that reason, this program has been specially designed to provide the professional with all the necessary skills to adapt to these booming technologies.

The skills that this Professional Master's Degree will provide you with will allow you to update and adapt to the new IT environment, where technologies such as Blockchain or artificial intelligence have burst onto the scene"

General Skills

- Apply the most appropriate security measures depending on the threats
- Determine the security policy and plan for a company's information system, completing the design and implementation of the Contingency Plan
- Establish an audit program that meets the organization's cybersecurity self-assessment needs
- Develop a vulnerability scanning and monitoring program and a cybersecurity incident response plan
- Maximize the opportunities presented and eliminate exposure to all potential risks from the design stage itself
- Compile key management systems
- Evaluate a company's information security
- Analyze information access systems
- Develop best practices in secure development
- Present the risks involved for companies in not having a secure IT environment



Specific Skills

- Develop an Information Security Management System (ISMS)
- Identify the key elements that make up an ISMS
- Apply the MAGERIT methodology to evolve the model and take it a step further
- Design new risk management methodologies based on the agile risk management concept
- Identify, analyze, evaluate and treat the risks faced by the professional from a new business perspective based on a risk-driven model that allows not only to survive in its own environment, but also to boost the contribution of its own value
- Examine the process of designing a security strategy when deploying corporate cloud services
- Assess the differences in the concrete implementations of different public cloud vendors
- Assess IoT connectivity options to address a project, with special emphasis on LPWAN technologies
- Present the basic specifications of the main LPWAN technologies for the IoT

04

Course Management

The sheer complexity of today's cybersecurity demands thorough and detailed learning. For this reason, TECH has taken it upon itself to bring together the best faculty specialized in this area. In this way, the professional will enjoy the accompaniment and supervision of a teaching staff that is up to date with the latest advances in this area, so that they will be able to incorporate the best cybersecurity techniques into their daily work, while acquiring the necessary management skills in this area.

You will have real cybersecurity specialists at your disposal. This is the opportunity you were looking for"

International Guest Director

With over 20 years of experience in designing and leading global **talent acquisition teams**, Jennifer Dove is an expert in **recruitment** and **technology strategy**. Throughout her career, she has held senior positions in several technology organizations within ***Fortune* 50 companies** such as **NBCUniversal** and **Comcast**. Her track record has allowed her to excel in competitive, high-growth environments.

As **Vice President of Talent Acquisition** at **Mastercard**, she is responsible for overseeing talent onboarding strategy and execution, collaborating with business leaders and**HR** managers to meet operational and strategic hiring objectives. In particular, she aims to build **diverse, , inclusive** and **high-performing teams** that drive innovation and growth of the company's products and services. In addition, she is adept at using tools to attract and retain the best people from around the world. She is also responsible for**amplifying** Mastercard's **employer brand** and value proposition through publications, events and social media.

Jennifer Dove has demonstrated her commitment to continuous professional development, actively participating in networks of Human Resources professionals and contributing to the incorporation of numerous workers in different companies. After earning her bachelor's degree in **Organizational Communication** from the University of Miami, she has held senior recruiting positions at companies in a variety of fields.

On the other hand, she has been recognized for her ability to lead organizational transformations, **integrate technologies** in **recruitment processes** and develop leadership programs that prepare institutions for future challenges. She has also successfully implemented **occupational wellness programs** that have significantly increased employee satisfaction and retention.

Ms. Dove, Jennifer

- Vice President, Talent Acquisition, Mastercard, New York, USA
- Director of Talent Acquisition, NBCUniversal Media, New York, USA
- Head of Recruitment at Comcast
- Director of Recruiting at Rite Hire Advisory, New York, USA
- Executive Vice President, Sales Division at Ardor NY Real Estate
- Director of Recruitment at Valerie August & Associates
- Account Executive at BNC
- Account Executive at Vault
- Graduated in Organizational Communication from the University of Miami

Thanks to TECH you will be able to learn with the best professionals in the world"

International Guest Director

A technology leader with decades of experience in **major technology multinationals**, Rick Gauthier has developed prominently in the field of **cloud services** and end-to-end process improvement. He has been recognized as a leader and manager of highly efficient teams, showing a natural talent for ensuring a high level of engagement among his employees.

He possesses innate gifts in strategy and executive innovation, developing new ideas and backing his success with quality data. His background at **Amazon** has allowed him to manage and integrate the company's IT services in the United States. At **Microsoft** he has led a team of 104 people, responsible for providing corporate-wide IT infrastructure and supporting product engineering departments across the company.

This experience has allowed him to stand out as a high-impact manager with remarkable abilities to increase efficiency, productivity and overall customer satisfaction.

Mr. Gauthier, Rick

- Regional IT Director - Amazon, Seattle , USA
- Senior Program Manager at Amazon
- Vice President, Wimmer Solutions
- Senior Director of Productive Engineering Services at Microsoft
- Degree in Cybersecurity from Western Governors University
- Technical Certificate in Commercial Diving from Divers Institute of Technology
- B.S. in Environmental Studies from The Evergreen State College

Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"

International Guest Director

Romi Arman is a renowned international expert with more than two decades of experience in **Digital Transformation**, **Marketing, Strategy** and **Consulting**. Through that extended trajectory, he has taken different risks and is a permanent**advocate** for **innovation** and **change** in the business environment. With that expertise, he has collaborated with CEOs and corporate organizations from all over the world, pushing them to move away from traditional business models. In this way, he has helped companies such as Shell Energy become **true market leaders,** focused on their **customers** and the **digital world.**

The strategies designed by Arman have a real impact, as they have enabled several corporations to **improve the experiences of consumers, staff** and **shareholders** alike. The success of this expert is quantifiable through tangible metrics such as **CSAT**, **employee engagement** in the institutions where he has practiced and the growth of the **EBITDA financial indicator**in each of them.

He has also nurtured and**led high-performing teams** throughout his career that have received awards for their **transformational potential**. With Shell, specifically, the executive has always set out to overcome three challenges: **meeting the complex decarbonization demands** of customers, **supporting** " **cost-effective decarbonization**" and **overhauling** overhauling a fragmented data, **digital and technology landscape**. In this way, his efforts have evidenced that in order to achieve sustainable success, it is essential to start from the needs of consumers and lay the foundations for the transformation of processes, data, technology and culture.

On the other hand, the executive stands out for his mastery of the **business applications** of**Artificial Intelligence,** a subject in which he has a postgraduate degree from the London Business School. At the same time, he has accumulated experience in **IoT** and **Salesforce.**

Mr. Arman, Romi

- Chief Digital Officer (CDO) at Shell Energy Corporation, London, United Kingdom
- Global Head of eCommerce and Customer Service at Shell Energy Corporation
- National Key Account Manager (Automotive OEM and Retail) for Shell in Kuala Lumpur, Malaysia
- Senior Management Consultant (Financial Services Sector) for Accenture from Singapore
- Graduate of the University of Leeds
- Postgraduate Diploma in Business Applications of AI for Senior Executives from London Business School
- CCXP Customer Experience Professional Certification
- Executive Digital Transformation Course by IMD

Do you want to update your knowledge with the highest educational quality? TECH offers you the most updated content in the academic market, designed by authentic experts of international prestige"

International Guest Director

Manuel Arens is an **experienced data management professional** and leader of a highly qualified team. In fact, Arens holds the position of **Global Procurement Manager** in Google's Technical Infrastructure and Data Center division, where he has spent most of his professional career. Based in Mountain View, California, he has provided solutions for the tech giant's operational challenges, such as **master data integrity, vendor data updates** and vendor **prioritization**. He has led data center supply chain planning and vendor risk assessment, generating improvements in vendor risk assessment, resulting in process improvements and workflow management that have resulted in significant cost savings.

With more than a decade of work providing digital solutions and leadership for companies in diverse industries, he has extensive experience in all aspects of strategic solution delivery, including **marketing, media analytics, measurement** and **attribution.** In fact, he has received a number of accolades for his work, including the **BIM Leadership Award,** the **Search Leadership Award, Export Lead Generation Program Award** and the **EMEA Best Sales Model Award.**

Arens also served as **Sales Manager** in Dublin, Ireland. In this role, he built a team of 4 to 14 members over three years and led the sales team to achieve results and collaborate well with each other and cross-functional teams. He also served as **Senior Industry Analyst**, Hamburg, Germany, creating storylines for over 150 clients using internal and third party tools to support analysis. He developed and wrote in-depth reports to demonstrate his mastery of the subject matter, including understanding the **macroeconomic and political/ regulatory factors** affecting technology adoption and diffusion.

He has also led teams at companies such as **Eaton, Airbus and Siemens**, where he gained valuable account and supply chain management experience. He is particularly noted for continually exceeding expectations by **building valuable customer relationships** and **working seamlessly with people at all levels of an organization**, including stakeholders, management, team members and customers. His data-driven approach and ability to develop innovative and scalable solutions to industry challenges have made him a prominent leader in his field.

Mr. Arens, Manuel

- Global Procurement Manager at Google, California, United States
- Senior Manager, B2B Analytics and Technology - Google, USA
- Sales Director - Google, Ireland
- Senior Industry Analyst - Google, Germany
- Accounts Manager - Google, Ireland
- Accounts Payable at Eaton, UK
- Supply Chain Manager at Airbus, Germany

Bet on TECH! You will have access to the best teaching materials, at the forefront of technology and education, implemented by internationally renowned specialists in the field"

International Guest Director

Andrea La Sala is an **experienced Marketing executive** whose projects have had a **significant impact** on the **Fashion sector**. Throughout his successful career he has developed different tasks related to **Product**, **Merchandising** and **Communication**. All this linked to prestigious brands such as**Giorgio Armani**, **Dolce&Gabbana**, **Calvin Klein**, among others.

The results of this **high-profile international executive** have been linked to his proven ability to **synthesize information** in clear frameworks and execute**concrete actions** aligned to specific **business objectives**. In addition, he is recognized for his **proactivity** and **adaptation to fast-paced work rhythms**. To all this, this expert adds a**strong commercial awareness**, **market vision** and a **genuine passion** for **products**.

As **Global Brand and Merchandising Director** at **Giorgio Armani**, he has overseen a variety of **Marketing strategies** for **apparel** and **accessories**. His tactics have also focused on **retail** and **consumer needs** and **behavior**. In this role, La Sala has also been responsible for shaping the marketing of products in different markets, acting as **team leader** in the **Design, Communication** and **Sales departments**.

On the other hand, in companies such as **Calvin Klein** or **Gruppo Coin**, he has undertaken projects to boost the **structure**, **development** and **marketing** of **different collections**. In turn, he has been in charge of creating **effective calendars** for **buying and selling campaigns.**
He has also been in charge of the **terms**, **costs**, **processes** and **delivery times** of different operations.

These experiences have made Andrea La Sala one of the main and most qualified **corporate leaders** in **Fashion** and **Luxury**. A high managerial capacity with which he has managed to effectively implement the **positive positioning** of **different brands** and redefine their key performance indicators (KPI).

Mr. La Sala, Andrea

- Global Brand and Merchandising Director at Giorgio Armani, Milan, Italy
- Merchandising Director at Calvin Klein
- Brand Manager at Gruppo Coin
- Brand Manager at Dolce & Gabbana
- Brand Manager at Sergio Tacchini S.p.A
- Market Analyst at Fastweb
- Graduate of Business and Economics at the Università degli Studi del Piemonte Orientale

The most qualified and experienced international professionals are waiting for you at TECH to offer you a first class education, updated and based on the latest scientific evidence. What are you waiting for to enroll?"

International Guest Director

Mick Gram is synonymous with innovation and excellence in the field of **Business Intelligence** internationally. His successful career is linked to leadership positions in multinationals such as **Walmart** and **Red Bull.** Likewise, this expert stands out for his vision to **identify emerging technologies** that, in the long term, achieve an everlasting impact in the corporate environment.

On the other hand, the executive is considered a **pioneer** in the **use of data visualization techniques that simplified complex sets**, making them accessible and facilitating decision making. This ability became the pillar of his professional profile, transforming him into a desired asset for many organizations that bet on **gathering information** and **generating concrete actions** from them.

One of his most outstanding projects in recent years has been the **Walmart Data Cafe platform**, the largest of its kind in the world that is anchored in the cloud aimed at ***Big Data*** analysis. In addition, he has held the position of**Director** of **Business Intelligence** at **Red Bull,** covering areas such as**Sales, Distribution, Marketing and Supply Chain Operations**. His team was recently recognized for its constant innovation regarding the use of Walmart Luminate's new API for Shopper and Channel insights.

In terms of education, the executive has several Master's degrees and postgraduate studies at prestigious centers such as the **University of Berkeley**, in the United States, and the **University of Copenhagen**, in Denmark. Through this continuous updating, this expert has achieved cutting-edge skills. Because of this, he has come to be considered a **born leader** of the **new global economy**, entered on the impulse of data and its infinite possibilities.

Mr. Gram, Mick

- Director of Business Intelligence and Analytics at Red Bull, Los Angeles, United States
- Business Intelligence Solutions Architect for Walmart Data Café
- Independent Business Intelligence and Data Science Consultant
- Business Intelligence Director at Capgemini
- Chief Analyst at Nordea
- Chief Business Intelligence Consultant for SAS
- Executive Education in AI and Machine Learning at UC Berkeley College of Engineering
- Executive MBA in e-commerce at the University of Copenhagen
- Bachelor's Degree and Master's Degree in Mathematics and Statistics at the University of Copenhagen

Study at the world's best online university according to Forbes! In this MBA you will have access to an extensive library of multimedia resources, developed by internationally renowned professors"

International Guest Director

Scott Stevenson is a distinguished **Digital Marketing** industry expert who, for over 19 years, has been associated with one of the most powerful companies in the entertainment industry, **Warner Bros. Discovery.** In this role, he has played a crucial role in**overseeing logistics** and **creative workflows** across a variety of digital platforms, including social media, search, display and linear media.

This executive's leadership has been crucial in driving **paid media production strategies**, resulting in a marked **improvement** in his company's **conversion rates**. At the same time, he has assumed other roles, such as Director of Marketing Services and Traffic Manager at the same multinational during his former management.

Stevenson has also been involved in the global distribution of video games and **digital property campaigns.**. He was also responsible for introducing operational strategies related to the formation, completion and delivery of sound and image content for **television commercials** and ***trailers.***

On the other hand, the expert holds a Bachelor's Degree in Telecommunications from the University of Florida and a Master's Degree in Creative Writing from the University of California, which demonstrates his skills in **communication** and **storytelling**. In addition, he has participated in Harvard University's School of Professional Development in cutting-edge programs on the use of **Artificial Intelligence** in **business**. As such, his professional profile stands as one of the most relevant in the current field of **Marketing** and **Digital Media.**

Mr. Stevenson, Scott

- Digital Marketing Director at Warner Bros. Discovery, Burbank, United States
- Traffic Manager at Warner Bros. Entertainment.
- Master's Degree in Creative Writing from the University of California
- Degree in Telecommunications from the University of Florida

Achieve your academic and professional goals with the best qualified experts in the world! The teachers of this MBA will guide you throughout the learning process"

International Guest Director

Eric Nyquist is an outstanding professional in the **international sports field**, who has built an impressive career, standing out for his**strategic leadership** and his ability to drive change and **innovation** in **top-level** sports organizations.

In fact, he has held senior roles such as **Director of Communications and Impact** at **NASCAR**, based in **Florida, USA.** With many years of experience behind him at NASCAR, Nyquist has also held several leadership positions, including **Senior Vice President of Strategic Development** and **General Manager of Business Affairs** managing more than a dozen disciplines ranging from **strategic development** to **entertainment marketing.**

Nyquist has also made a significant mark on Chicago's top **sport's franchises**. As **Executive Vice President** of the **Chicago Bulls** and the **Chicago White Sox** franchises, he has demonstrated his ability to drive **business** and **strategic success** in the world of **professional sports**.

Finally, it is worth noting that he began his career in **sports** while working in **New York** as **senior strategic analyst** for **Roger Goodell** in the **National Football League (NFL)** and, prior to that, as a **Legal Intern** for the **United States Soccer Federation.**

Mr. Nyquist, Eric

- Director of Communications and Impact, NASCAR, Florida, United States
- Senior Vice President, Strategic Development, NASCAR
- Vice President, Strategic Planning, NASCAR
- Senior Director of Business Affairs at NASCAR
- Executive Vice President, Chicago White Sox Franchises
- Executive Vice President, Chicago Bulls Franchises
- Manager of Business Planning at the National Football League (NFL)
- Business Affairs/Legal Intern with the United States Soccer Federation
- Law Degree from the University of Chicago
- Master of Business Administration-MBA from the University of Chicago Booth School of Business
- Bachelor's Degree in International Economics from Carleton College

Thanks to this 100% online university degree, you will be able to combine your studies with your daily obligations, under the guidance of the leading international experts in the field of your interest. Enroll now!"

Management

Mr. Olalla Bonal, Martín

- Senior Blockchain Practice Manager at EY
- Blockchain Client Technical Specialist for IBM
- Director of Architecture for Blocknitive
- Team Coordinator in Non-Relational Distributed Databases for WedoIT, a subsidiary of IBM
- Infrastructure Architect at Bankia
- Head of Layout Department at T-Systems
- Department Coordinator for Bing Data España SL

Professors

Mr. Nogales Ávila, Javier

- Enterprise Cloud and sourcing senior consultant. Quint
- Cloud and Technology Consultant. Indra
- Associate Technology Consultant. Accenture
- Graduate from Jaen University and University of Technology and Economics of Budapest (BME)
- Degree in Industrial Organization Engineering

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- Operational Security Officer at Atos IT Solutions and Services A/S
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- Principal Cloud Solutions Engineer for Oracle
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- Team Leader at System Dynamics
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- Founder and CEO of Sensor Intelligence
- Head of Operations and Projects. Codio
- Director of Operations at Codium Networks
- Chief Engineer of hardware and firmware design. AITEMIN
- Regional Head of RF Planning and Optimization - LMDS 3.5 GHz Network. Clearwire
- Telecommunications Engineer from the Polytechnic University of Madrid
- Executive MBA from the International Graduate School of La Salle, Madrid
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- Head of Risk Engineering and Innovation at Dynargy
- Manager and Founding Partner Risknova, a technology consultancy firm.
- Degree in Industrial Organization Engineering from Comillas Pontifical University ICAI
- Graduate in Industrial Technical Engineering, specializing in Industrial Electronics, Comillas Pontifical University ICAI
- Master's Degree in Insurance Management from ICEA (Institute for Collaboration between Insurance Companies)

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- Cybersecurity Consultant. Entelgy
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- Degree in Technical Engineering in Computer Systems from the University of Cordoba.
- Master's Degree in Information Security Management from the Polytechnic University of Madrid
- ITIL v4 Foundation Certificate in IT Service Management. ITIL Certified
- IBM Security QRadar SIEM 7.1 Advanced. Avnet
- IBM Security QRadar SIEM 7.1 Foundations. Avnet

Mr. Ortega Esteban, Octavio

- Marketing and Web Development Specialist
- Freelance Computer Applications Programmer and Web Developer
- Chief Operating Officer at Smallsquid SL
- E-commerce Administrator at Ortega y Serrano
- Lecturer in Postgraduate courses in Computer and Communications Professionalism
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- Graduate in Psychology from the Open University of Catalonia
- Higher University Technician in Software Analysis, Design and Solutions
- Higher University Technician in Advanced Programming

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- Lawyer Expert in ICT and Data Protection at Martínez-Echevarría Abogados
- Legal Manager of Branddocs SL
- Risk Analyst in the SME Segment at BBVA
- Lecturer in postgraduate university studies related to law
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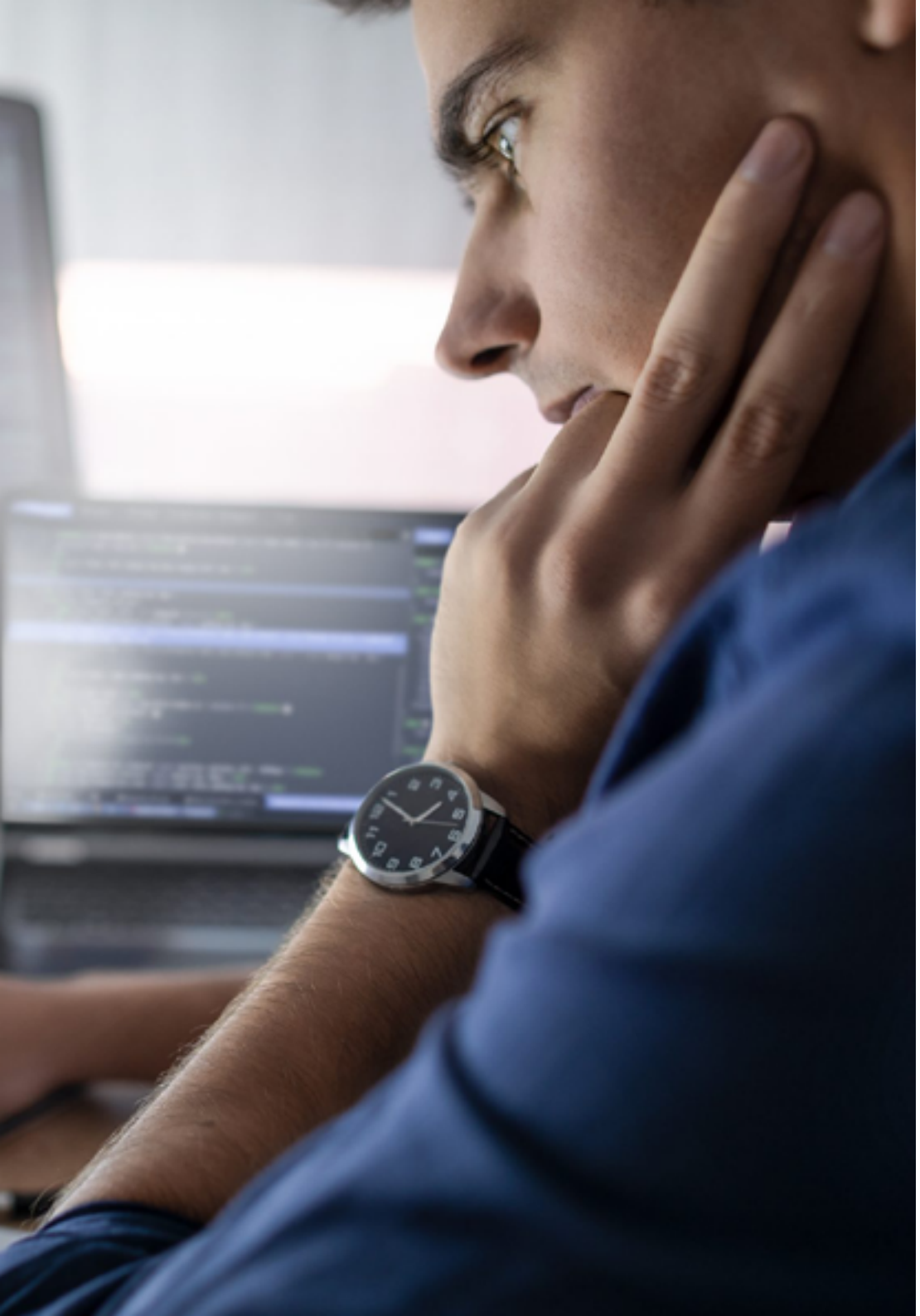

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- Blockchain-based Product Manager for Open Canarias
- Director Blockchain DevOps Director at Alastria
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- Director of Mobile Application Development Tinkerlink at Cronos Telecom
- IT Service Management Technology Director at Barclays Bank Spain
- Degree in Computer Engineering at UNED (Spanish Open University)
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  Certified Data Privacy Solutions Engineer (CDPSE) by ISACA

05

Structure and Content

This MBA in Advanced Cybersecurity Management (CISO) is structured in 10 specialized modules that will allow the professional to delve into aspects such as digital identification, access control systems, information security architecture, the structure of the security area, information security management systems in communications and software operation or the development of the business continuity plans associated with security. This will enable the IT specialist to gain a comprehensive understanding of all the relevant issues of today's cybersecurity.

You won't find more complete and innovative content than this to specialize in advanced cybersecurity management"

Module 1. Security in System Design and Development

1.1. Information Systems
- 1.1.1. Information System Domains
- 1.1.2. Components of an Information System
- 1.1.3. Activities of an Information System
- 1.1.4. Life Cycle of an Information System
- 1.1.5. Information System Resources

1.2. IT systems. Typology
- 1.2.1. Types of Information Systems
  - 1.2.1.1. Enterprise
  - 1.2.1.2. Strategic
  - 1.2.1.3. According to the Scope of Application
  - 1.2.1.4. Specific
- 1.2.2. Information Systems Real Examples
- 1.2.3. Evolution of Information Systems: Stages
- 1.2.4. Information Systems Methodologies

1.3. Security of Information Systems. Legal Implications
- 1.3.1. Access to Data
- 1.3.2. Security Threats: Vulnerabilities
- 1.3.3. Legal Implications: Crimes
- 1.3.4. Information System Maintenance Procedures

1.4. Security of an Information System. Security Protocols
- 1.4.1. Security of an Information System
  - 1.4.1.1. Integrity
  - 1.4.1.2. Confidentiality
  - 1.4.1.3. Availability
  - 1.4.1.4. Authentication
- 1.4.2. Security Services
- 1.4.3. Information Security Protocols. Typology
- 1.4.4. Sensitivity of an Information System

1.5. Security in an Information System. Access Control Measures and Systems
- 1.5.1. Safety Measures
- 1.5.2. Type of Security Measures
  - 1.5.2.1. Prevention
  - 1.5.2.2. Detection
  - 1.5.2.3. Correction
- 1.5.3. Access Control Systems. Typology
- 1.5.4. Cryptography

1.6. Network and Internet Security
- 1.6.1. Firewalls
- 1.6.2. Digital Identification
- 1.6.3. Viruses and Worms
- 1.6.4. *Hacking*
- 1.6.5. Examples and Real Cases

1.7. Computer Crimes
- 1.7.1. Computer Crime
- 1.7.2. Computer Crimes. Typology
- 1.7.3. Computer Crimes Attacks. Typology
- 1.7.4. The Case for Virtual Reality
- 1.7.5. Profiles of Offenders and Victims. Typification of the Crime
- 1.7.6. Computer Crimes. Examples and Real Cases

1.8. Security Plan in an Information System
- 1.8.1. Security Plan. Objectives
- 1.8.2. Security Plan. Planning
- 1.8.3. Risk Plan. Analysis
- 1.8.4. Security Policy. Implementation in the Organization
- 1.8.5. Security Plan. Implementation in the Organization
- 1.8.6. Security Procedures. Types
- 1.8.7. Security Plans. Examples

1.9. Contingency Plan
- 1.9.1. Contingency Plan. Functions
- 1.9.2. Emergency Plan Elements and Objectives
- 1.9.3. Contingency Plan in the Organization. Implementation
- 1.9.4. Contingency Plans. Examples

1.10. Information Systems Security Governance
- 1.10.1. Legal Regulations
- 1.10.2. Standards
- 1.10.3. Certifications
- 1.10.4. Technologies

Module 2. Information Security Architectures and Models

2.1. Information Security Architecture
- 2.1.1. SGSI/PDS
- 2.1.2. Strategic Alignment
- 2.1.3. Risk Management
- 2.1.4. Performance Measurement

2.2. Information Security Models
- 2.2.1. Based on Security Policies
- 2.2.2. Based on Protection Tools
- 2.2.3. Based on Work Teams

2.3. Safety Model. Key Components
- 2.3.1. Identification of Risks
- 2.3.2. Definition of Controls
- 2.3.3. Continuous Assessment of Risk Levels
- 2.3.4. Awareness Plan for Employees, Suppliers, Partners, etc.

2.4. Risk Management Process
- 2.4.1. Asset Identification
- 2.4.2. Threat Identification
- 2.4.3. Risk Assessment
- 2.4.4. Prioritization of Controls
- 2.4.5. Re-Evaluation and Residual Risk

2.5. Business Processes and Information Security
- 2.5.1. Business Processes
- 2.5.2. Risk Assessment Based on Business Parameters
- 2.5.3. Business Impact Analysis
- 2.5.4. Business Operations and Information Security

2.6. Continuous Improvement Process
- 2.6.1. The Deming Cycle
  - 2.6.1.1. Planning
  - 2.6.1.2. Do
  - 2.6.1.3. Verify
  - 2.6.1.4. Act

2.7. Security Architectures
- 2.7.1. Selection and Homogenization of Technologies
- 2.7.2. Identity Management. Authentication
- 2.7.3. Access Management. Authorization
- 2.7.4. Network Infrastructure Security
- 2.7.5. Encryption Technologies and Solutions
- 2.7.6. Endpoint Detection and Response (EDR)

2.8. Regulatory Framework
- 2.8.1. Sectoral Regulations
- 2.8.2. Certifications
- 2.8.3. Legislation

2.9. The ISO 27001 Standard
- 2.9.1. Implementation
- 2.9.2. Certification
- 2.9.3. Audits and Penetration Tests
- 2.9.4. Continuous Risk Management
- 2.9.5. Classification of Information

2.10. Privacy Legislation. GDPR
- 2.10.1. Scope of General Data Protection Regulation (GDPR)
- 2.10.2. Personal Data
- 2.10.3. Roles in the Processing of Personal Data
- 2.10.4. ARCO Rights
- 2.10.5. El DPO. Functions

Module 3. IT Security Management

3.1. Safety Management
- 3.1.1. Security Operations
- 3.1.2. Legal and Regulatory Aspects
- 3.1.3. Business Qualification
- 3.1.4. Risk Management
- 3.1.5. Identity and Access Management

3.2. Structure of the Security Area. The CISO's Office
- 3.2.1. Organisational Structure. Position of the CISO in the Structure
- 3.2.2. Lines of Defense
- 3.2.3. Organizational Chart of the CISO's Office
- 3.2.4. Budget Management

3.3. Security Governance
- 3.3.1. Safety Committee
- 3.3.2. Risk Monitoring Committee
- 3.3.3. Audit Committee
- 3.3.4. Crisis Committee

3.4. Security Governance. Functions
- 3.4.1. Policies and Standards
- 3.4.2. Security Master Plan
- 3.4.3. Control Panels
- 3.4.4. Awareness and Education
- 3.4.5. Supply Chain Security

3.5. Security Operations
- 3.5.1. Identity and Access Management
- 3.5.2. Configuration of Network Security Rules. Firewalls
- 3.5.3. IDS/IPS Platform Management
- 3.5.4. Vulnerability Analysis

3.6. Cybersecurity Framework NIST CSF
- 3.6.1. NIST Methodology
  - 3.6.1.1. Identify
  - 3.6.1.2. Protect
  - 3.6.1.3. Detect
  - 3.6.1.4. Respond
  - 3.6.1.5. Retrieve

3.7. Security Operations Center (SOC) Functions
- 3.7.1. Protection Red Team, Pentesting, Threat Intelligence
- 3.7.2. Detection. SIEM, User Behavior Analytics, Fraud Prevention
- 3.7.3. Response

3.8. Security Audits
- 3.8.1. Intrusion Test
- 3.8.2. Red Team Exercises
- 3.8.3. Source Code Audits. Secure Development
- 3.8.4. Component Safety (Software Supply Chain)
- 3.8.5. Forensic Analysis

3.9. Incident Response
- 3.9.1. Preparation
- 3.9.2. Detection, Analysis and Notification
- 3.9.3. Containment, Eradication and Recovery
- 3.9.4. Post-Incident Activity
  - 3.9.4.1. Evidence Retention
  - 3.9.4.2. Forensic Analysis
  - 3.9.4.3. Gap Management
- 3.9.5. Official Cyber-Incident Management Guidelines

3.10. Vulnerability Management
- 3.10.1. Vulnerability Analysis
- 3.10.2. Vulnerability Assessment
- 3.10.3. System Basing
- 3.10.4. Zero-Day Vulnerabilities. Zero-Day

Module 4. Risk Analysis and IT Security Environment

4.1. Analysis of the Environment
- 4.1.1. Analysis of the Economic Situation
  - 4.1.1.1. VUCA Environments
    - 4.1.1.1.1. Volatile
    - 4.1.1.1.2. Uncertain
    - 4.1.1.1.3. Complex.
    - 4.1.1.1.4. Ambiguous
  - 4.1.1.2. BANI Environments
    - 4.1.1.2.1. Brittle
    - 4.1.1.2.2. Anxious
    - 4.1.1.2.3. Nonlinear
    - 4.1.1.2.4. Incomprehensible
- 4.1.2. Analysis of the General Environment. PESTEL
  - 4.1.2.1. Politics
  - 4.1.2.2. Economics
  - 4.1.2.3. Social
  - 4.1.2.4. Technological
  - 4.1.2.5. Ecological/Environmental
  - 4.1.2.6. Legal
- 4.1.3. Analysis of the Internal Situation SWOT Analysis
  - 4.1.3.1. Objectives
  - 4.1.3.2. Threats
  - 4.1.3.3. Opportunities
  - 4.1.3.4. Strengths

4.2. Risk and Uncertainty
- 4.2.1. Risk
- 4.2.2. Risk Management
- 4.2.3. Risk Management Standards

4.3. ISO 31.000:2018 Risk Management Guidelines
- 4.3.1. Object
- 4.3.2. Principles
- 4.3.3. Frame of Reference
- 4.3.4. Process

4.4. Methodology for Analysis and Management of Information Systems Risks (MAGERIT)
- 4.4.1. MAGERIT Methodology
  - 4.4.1.1. Objectives
  - 4.4.1.2. Method
  - 4.4.1.3. Components
  - 4.4.1.4. Techniques
  - 4.4.1.5. Available Tools (PILAR)

4.5. Cyber Risk Transfer
- 4.5.1. Ristk Transfer
- 4.5.2. Cyber Risks. Typology
- 4.5.3. Cyber Risk Insurance

4.6. Agile Methodologies for Risk Management
- 4.6.1. Agile Methodologies
- 4.6.2. Scrum for Risk Management
- 4.6.3. Agile Risk Management

4.7. Technologies for Risk Management
- 4.7.1. Artificial Intelligence Applied to Risk Management
- 4.7.2. Blockchain and Cryptography. Value Preservation Methods
- 4.7.3. Quantum Computing Opportunity or Threat

4.8. IT Risk Mapping Based on Agile Methodologies
- 4.8.1. Representation of Probability and Impact in Agile Environments.
- 4.8.2. Risk as a Threat to Value
- 4.8.3. Re-Evolution in Project Management and Agile Processes based on KRIs

4.9. Risk-Driven in Risk Management
- 4.9.1. Risk Driven
- 4.9.2. Risk-Driven in Risk Management
- 4.9.3. Development of a Risk-Driven Business Management Model

4.10. Innovation and Digital Transformation in IT Risk Management
- 4.10.1. Agile Risk Management as a Source of Business Innovation
- 4.10.2. Transforming Data into Useful Information for Decision Making
- 4.10.3. Holistic View of the Enterprise through Risk

Module 5. Cryptography in IT

5.1. Cryptography
- 5.1.1. Cryptography
- 5.1.2. Fundamentals of Mathematics

5.2. Cryptology
- 5.2.1. Cryptology
- 5.2.2. Cryptanalysis
- 5.2.3. Steganography and Stegoanalysis

5.3. Cryptographic Protocols
- 5.3.1. Basic Blocks
- 5.3.2. Basic Protocols
- 5.3.3. Intermediate Protocols
- 5.3.4. Advanced Protocol
- 5.3.5. Exoteric Protocols

5.4. Cryptographic Techniques
- 5.4.1. Key Length
- 5.4.2. Key Management
- 5.4.3. Types of Algorithms
- 5.4.4. Key Management Hash
- 5.4.5. Pseudo-Random Number Generators
- 5.4.6. Use of Algorithms

5.5. Symmetric Cryptography
- 5.5.1. Block Ciphers
- 5.5.2. DES (Data Encryption Standard)
- 5.5.3. RC4 Algorithm
- 5.5.4. AES (Advanced Encryption Standard)
- 5.5.5. Combination of Block Ciphers
- 5.5.6. Key Derivation

5.6. Asymmetric Cryptography
- 5.6.1. Diffie-Hellman
- 5.6.2. DSA (Digital Signature Algorithm)
- 5.6.3. RSA (Rivest, Shamir y Adleman)
- 5.6.4. Elliptic Curve
- 5.6.5. Asymmetric Cryptography. Typology

5.7. Digital Certificates
- 5.7.1. Digital Signature
- 5.7.2. X509 Certificates
- 5.7.3. Public Key Infrastructure (PKI)

5.8. Implementations
- 5.8.1. Kerberos
- 5.8.2. IBM CCA
- 5.8.3. Pretty Good Privacy (PGP)
- 5.8.4. ISO Authentication Framework
- 5.8.5. SSL and TLS
- 5.8.6. Smart Cards in Means of Payment (EMV)
- 5.8.7. Mobile Telephony Protocols
- 5.8.8. Blockchain

5.9. Steganography
- 5.9.1. Steganography
- 5.9.2. Stegoanalysis
- 5.9.3. Applications and Uses

5.10. Quantum Cryptography
- 5.10.1. Quantum Algorithms
- 5.10.2. Protection of Algorithms from Quantum Computing
- 5.10.3. Quantum Key Distribution

Module 6. Identity and Access Management in IT Security

6.1. Identity and Access Management (IAM)
- 6.1.1. Digital Identity
- 6.1.2. Identity Management
- 6.1.3. Identity Federation

6.2. Physical Access Control
- 6.2.1. Protection Systems
- 6.2.2. Area Security
- 6.2.3. Recovery Facilities

6.3. Logical Access Control
- 6.3.1. Authentication: Typology
- 6.3.2. Authentication Protocols
- 6.3.3. Authentication Attacks

6.4. Logical Access Control. MFA Authentication
- 6.4.1. Logical Access Control. MFA Authentication
- 6.4.2. Passwords. Importance
- 6.4.3. Authentication Attacks

6.5. Logical Access Control. Biometric Authentication
- 6.5.1. Logical Access Control Biometric Authentication
  - 6.5.1.1. Biometric Authentication. Requirements
- 6.5.2. Operation
- 6.5.3. Models and Techniques

6.6. Authentication Management Systems
- 6.6.1. Single Sign On
- 6.6.2. Kerberos
- 6.6.3. AAA Systems

6.7. Authentication Management Systems: AAA Systems
- 6.7.1. TACACS
- 6.7.2. RADIUS
- 6.7.3. DIAMETER

6.8. Access Control Services
- 6.8.1. FW - Firewall
- 6.8.2. VPN - Virtual Private Networks
- 6.8.3. IDS - Intrusion Detection System

6.9. Network Access Control Systems
- 6.9.1. NAC
- 6.9.2. Architecture and Elements
- 6.9.3. Operation and Standardization

6.10. Access to Wireless Networks
- 6.10.1. Types of Wireless Networks
- 6.10.2. Security in Wireless Networks
- 6.10.3. Attacks on Wireless Networks

Module 7. Security in Communications and Software Operation

7.1. Computer Security in Communications and Software Operation
- 7.1.1. IT Security
- 7.1.2. Cybersecurity
- 7.1.3. Cloud Security

7.2. IT Security in Communications and Software Operation Typology
- 7.2.1. Physical Security
- 7.2.2. Logical Security

7.3. Communications Security
- 7.3.1. Main Elements
- 7.3.2. Network Security
- 7.3.3. Best Practices

7.4. Cyberintelligence
- 7.4.1. Social Engineering
- 7.4.2. Deep Web
- 7.4.3. Phishing
- 7.4.4. Malware

7.5. Secure Development in Communications and Software Operation
- 7.5.1. Secure Development. HTTP Protocol
- 7.5.2. Secure Development. Life Cycle
- 7.5.3. Secure Development. PHP Security
- 7.5.4. Secure Development. NET Security
- 7.5.5. Secure Development. Best Practices

7.6. Information Security Management Systems in Communications and Software Operation.
- 7.6.1. GDPR
- 7.6.2. ISO 27021
- 7.6.3. ISO 27017/18

7.7. SIEM Technologies
- 7.7.1. SIEM Technologies
- 7.7.2. SOC Operation
- 7.7.3. SIEM Vendors

7.8. The Role of Security in Organizations
- 7.8.1. Roles in Organizations
- 7.8.2. Role of IoT Specialists in Companies
- 7.8.3. Recognized Certifications in the Market

7.9. Forensic Analysis
- 7.9.1. Forensic Analysis
- 7.9.2. Forensic Analysis. Methodology
- 7.9.3. Forensic Analysis. Tools and Implementation

7.10. Cybersecurity Today
- 7.10.1. Major Cyber-Attacks
- 7.10.2. Employability Forecasts
- 7.10.3. Challenges

Module 8. Security in Cloud Environments

8.1. Security in Cloud Computing Environments
- 8.1.1. Security in Cloud Computing Environments
- 8.1.2. Security in Cloud Computing Environments. Threats and Security Risks
- 8.1.3. Security in Cloud Computing Environments. Key Security Aspects

8.2. Types of Cloud Infrastructure
- 8.2.1. Public
- 8.2.2. Private
- 8.2.3. Hybrid

8.3. Shared Management Model
- 8.3.1. Security Elements Managed by Vendor
- 8.3.2. Elements Managed by Customer
- 8.3.3. Definition of the Security Strategy

8.4. Prevention Mechanisms
- 8.4.1. Authentication Management Systems
- 8.4.2. Authorization Management System: Access Policies
- 8.4.3. Key Management Systems

8.5. System Securitization
- 8.5.1. Securitization of Storage Systems
- 8.5.2. Protection of Database Systems
- 8.5.3. Securing Data in Transit

8.6. Infrastructure Protection
- 8.6.1. Secure Network Design and Implementation
- 8.6.2. Security in Computing Resources
- 8.6.3. Tools and Resources for Infrastructure Protection

8.7. Detection of Threats and Attacks
- 8.7.1. Auditing, Logging and Monitoring Systems
- 8.7.2. Event and Alarm Systems
- 8.7.3. SIEM Systems

8.8. Incident Response
- 8.8.1. Incident Response Plan
- 8.8.2. Business Continuity
- 8.8.3. Forensic Analysis and Remediation of Incidents of the Same Nature.

8.9. Security in Public Clouds
- 8.9.1. AWS (Amazon Web Services)
- 8.9.2. Microsoft Azure
- 8.9.3. Google GCP
- 8.9.4. Oracle Cloud

8.10. Regulations and Compliance
- 8.10.1. Security Compliance
- 8.10.2. Risk Management
- 8.10.3. People and Process in Organizations

Module 9. Security in IoT Device Communications

9.1. From Telemetry to IoT
- 9.1.1. Telemetry
- 9.1.2. M2M Connectivity
- 9.1.3. Democratization of Telemetry

9.2. IoT Reference Models
- 9.2.1. IoT Reference Model
- 9.2.2. Simplified IoT Architecture

9.3. IoT Security Vulnerabilities
- 9.3.1. IoT Devices
- 9.3.2. IoT Devices. Usage Case Studies
- 9.3.3. IoT Devices. Vulnerabilities

9.4. IoT Connectivity
- 9.4.1. PAN, LAN, WAN Networks
- 9.4.2. Non IoT Wireless Technologies
- 9.4.3. LPWAN Wireless Technologies

9.5. LPWAN Technologies
- 9.5.1. The Iron Triangle of LPWAN Networks
- 9.5.2. Free Frequency Bands vs. Licensed Bands
- 9.5.3. LPWAN Technology Options

9.6. LoRaWAN Technology
- 9.6.1. LoRaWAN Technology
- 9.6.2. LoRaWAN Use Cases. Ecosystem
- 9.6.3. Security in LoRaWAN

9.7. Sigfox Technology
- 9.7.1. Sigfox Technology
- 9.7.2. Sigfox Use Cases. Ecosystem
- 9.7.3. Sigfox Security

9.8. IoT Cellular Technology
- 9.8.1. IoT Cellular Technology (NB-IoT and LTE-M)
- 9.8.2. Cellular IoT Use Cases Ecosystem
- 9.8.3. IoT Cellular Security

9.9. WiSUN Technology
- 9.9.1. WiSUN Technology
- 9.9.2. WiSUN Use Cases Ecosystem
- 9.9.3. Security in WiSUN

9.10. Other IoT Technologies
- 9.10.1. Other IoT Technologies
- 9.10.2. Use Cases and Ecosystem of Other IoT Technologies
- 9.10.3. Security in Other IoT Technologie

Module 10. Business Continuity Plan Associated with Security

10.1. Business Continuity Plans
- 10.1.1. Business Continuity Plans (BCP)
- 10.1.2. Business Continuity Plans(BCP) Key Aspects
- 10.1.3. Business Continuity Plan (BCP) for Company Valuation

10.2. Metrics in Business Continuity Plans(BCP)
- 10.2.1. Recovery Time Objective (RTO) and Recovery Point Objective (RPO)
- 10.2.2. Maximum Tolerable Downtime (MTD)
- 10.2.3. Minimum Recovery Levels (ROL)
- 10.2.4. Recovery Point Objective (RPO)

10.3. Continuity Projects. Typology
- 10.3.1. Business Continuity Plans(BCP)
- 10.3.2. ICT Continuity Plan (ICTCP).
- 10.3.3. Disaster Recovery Plan (DRP)

10.4. Risk Management Associated with the BCP
- 10.4.1. Business Impact Analysis
- 10.4.2. Benefits of Implementing a BCP
- 10.4.3. Risk-Based Mentality

10.5. Life Cycle of a Business Continuity Plan
- 10.5.1. Phase 1 Organizational Analysis
- 10.5.2. Phase 2 Determining the Continuity Strategy
- 10.5.3. Phase 3 Response to Contingency
- 10.5.4. Phase 4 Tests, Maintenance and Review

10.6. Organizational Analysis Phase of a BCP
- 10.6.1. Identification of Processes in the Scope of the BCP
- 10.6.2. Identification of Critical Business Areas
- 10.6.3. Identification of Dependencies Between Areas and Processes
- 10.6.4. Determination of Appropriate BAT
- 10.6.5. Deliverables. Creation of a Plan

10.7. Determination Phase of the Continuity Strategy in a BCP
- 10.7.1. Roles in the Strategy Determination Phase
- 10.7.2. Tasks in the Strategy Determination Phase 20.7.3.
- 10.7.3. Deliverables

10.8. Contingency Response Phase of a BCP
- 10.8.1. Roles in the Response Phase
- 10.8.2. Tasks in This Phase
- 10.8.3. Deliverables

10.9. Testing, Maintenance and Revision Phase of a BCP
- 10.9.1. Roles in the Testing, Maintenance and Review Phase
- 10.9.2. Tasks in the Testing, Maintenance and Review Phase
- 10.9.3. Deliverables

10.10. ISO Standards Associated with Business Continuity Plans (BCP)
- 10.10.1. ISO 22301:2019
- 10.10.2. ISO 22313:2020
- 10.10.3. Other Related ISO and International Standards

Module 11. Leadership, Ethics and Social Responsibility in Companies

11.1. Globalization and Governance
- 11.1.1. Governance and Corporate Governance
- 11.1.2. The Fundamentals of Corporate Governance in Companies
- 11.1.3. The Role of the Board of Directors in the Corporate Governance Framework

11.2. Leadership
- 11.2.1. Leadership. A Conceptual Approach
- 11.2.2. Leadership in Companies
- 11.2.3. The Importance of Leaders in Business Management

11.3. Cross-Cultural Management
- 11.3.1. Concept of Cross-Cultural Management
- 11.3.2. Contributions to the Knowledge of National Cultures
- 11.3.3. Diversity Management

11.4. Management and Leadership Development
- 11.4.1. Concept of Management Development
- 11.4.2. Concept of Leadership
- 11.4.3. Leadership Theories
- 11.4.4. Leadership Styles
- 11.4.5. Intelligence in Leadership
- 11.4.6. The Challenges of Today's Leader

11.5. Business Ethics
- 11.5.1. Ethics and Morality
- 11.5.2. Business Ethics
- 11.5.3. Leadership and Ethics in Companies

11.6. Sustainability
- 11.6.1. Sustainability and Sustainable Development
- 11.6.2. The 2030 Agenda
- 11.6.3. Sustainable Companies

11.7. Corporate Social Responsibility
- 11.7.1. International Dimensions of Corporate Social Responsibility
- 11.7.2. Implementing Corporate Social Responsibility
- 11.7.3. The Impact and Measurement of Corporate Social Responsibility

11.8. Responsible Management Systems and Tools
- 11.8.1. CSR: Corporate Social Responsibility
- 11.8.2. Essential Aspects for Implementing a Responsible Management Strategy
- 11.8.3. Steps for the Implementation of a Corporate Social Responsibility Management System
- 11.8.4. Tools and Standards of CSR

11.9. Multinationals and Human Rights
- 11.9.1. Globalization, Multinational Corporations and Human Rights
- 11.9.2. Multinational Corporations and International Law
- 11.9.3. Legal Instruments for Multinationals in the Field of Human Rights

11.10. Legal Environment and Corporate Governance
- 11.10.1. International Rules on Importation and Exportation
- 11.10.2. Intellectual and Industrial Property
- 11.10.3. International Labor Law

Module 12. People and Talent Management

12.1. Strategic People Management
- 12.1.1. Strategic Human Resources Management
- 12.1.2. Strategic People Management

12.2. Human Resources Management by Competencies
- 12.2.1. Analysis of the Potential
- 12.2.2. Remuneration Policy
- 12.2.3. Career/Succession Planning

12.3. Performance Evaluation and Performance Management
- 12.3.1. Performance Management
- 12.3.2. Performance Management: Objectives and Process

12.4. Innovation in Talent and People Management
- 12.4.1. Strategic Talent Management Models
- 12.4.2. Talent Identification, Training and Development
- 12.4.3. Loyalty and Retention
- 12.4.4. Proactivity and Innovation

12.5. Motivation
- 12.5.1. The Nature of Motivation
- 12.5.2. Expectations Theory
- 12.5.3. Needs Theory
- 12.5.4. Motivation and Financial Compensation

12.6. Developing High Performance Teams
- 12.6.1. High-Performance Teams: Self-Managing Teams
- 12.6.2. Methodologies for Managing High Performance Self-Managed Teams

12.7. Change Management
- 12.7.1. Change Management
- 12.7.2. Types of Change Management Processes
- 12.7.3. Stages or Phases in Change Management

12.8. Negotiation and Conflict Management
- 12.8. 1. Negotiation
- 12.8.2. Conflict Management
- 12.8.3. Crisis Management

12.9. Executive Communication
- 12.9.1. Internal and External Communication in the Business Environment
- 12.9.2. Communication Departments
- 12.9.3. The Head of Communication of the Company. The Profile of the Dircom

12.10. Productivity, Attraction, Retention and Activation of Talent
- 12.10.1. Productivity
- 12.10.2. Talent Attraction and Retention Levers

Module 13. Economic and Financial Management

13.1. Economic Environment
- 13.1.1. Macroeconomic Environment and the National Financial System
- 13.1.2. Financial Institutions
- 13.1.3. Financial Markets
- 13.1.4. Financial Assets
- 13.1.5. Other Financial Sector Entities

13.2. Executive Accounting
- 13.2.1. Basic Concepts
- 13.2.2. The Company's Assets
- 13.2.3. The Company's Liabilities
- 13.2.4. The Company's Net Worth
- 13.2.5. The Income Statement

13.3. Information Systems and Business Intelligence
- 13.3.1. Fundamentals and Classification
- 13.3.2. Cost Allocation Phases and Methods
- 13.3.3. Choice of Cost Center and Impact

13.4. Budget and Management Control
- 13.4.1. The Budgetary Model
- 13.4.2. The Capital Budget
- 13.4.3. The Operating Budget
- 13.4.5. The Cash Budget
- 13.4.6. Budget Monitoring

13.5. Financial Management
- 13.5.1. The Company's Financial Decisions
- 13.5.2. The Financial Department
- 13.5.3. Cash Surpluses
- 13.5.4. Risks Associated with Financial Management
- 13.5.5. Risk Management of the Financial Management

13.6. Financial Planning
- 13.6.1. Definition of Financial Planning
- 13.6.2. Actions to Be Taken in Financial Planning
- 13.6.3. Creation and Establishment of the Business Strategy
- 13.6.4. The Cash Flow Chart
- 13.6.5. The Working Capital Chart

13.7. Corporate Financial Strategy
- 13.7.1. Corporate Strategy and Sources of Financing
- 13.7.2. Corporate Financing Financial Products

13.8. Strategic Financing
- 13.8.1. Self-financing
- 13.8.2. Increase in Shareholder's Equity
- 13.8.3. Hybrid Resources
- 13.8.4. Financing through Intermediaries

13.9. Financial Analysis and Planning
- 13.9.1. Analysis of the Balance Sheet
- 13.9.2. Analysis of the Income Statement
- 13.9.3. Profitability Analysis

13.10. Analyzing and Solving Cases/Problems
- 13.10.1. Financial Information on Industria de Diseño y Textil, S.A. (INDITEX)

Module 14. Commercial Management and Strategic Marketing

14.1. Commercial Management
- 14.1.1. Conceptual Framework of Commercial Management
- 14.1.2. Commercial Strategy and Planning
- 14.1.3. The Role of Sales Managers

14.2. Marketing
- 14.2.1. The Concept of Marketing
- 14.2.2. The Basic Elements of Marketing
- 14.2.3. Marketing Activities in Companies

14.3. Strategic Marketing Management
- 14.3.1. The Concept of Strategic Marketing
- 14.3.2. Concept of Strategic Marketing Planning
- 14.3.3. Stages in the Process of Strategic Marketing Planning

14.4. Digital Marketing and e-Commerce
- 14.4.1. Objectives of Digital Marketing and e-Commerce
- 14.4.2. Digital Marketing and the Media It Uses
- 14.4.3. E-Commerce. General Context
- 14.4.4. Categories of e-Commerce
- 14.4.5. Advantages and Disadvantages of e-Commerce Compared to Traditional Commerce

14.5. Digital Marketing to Reinforce a Brand
- 14.5.1. Online Strategies to Improve Brand Reputation
- 14.5.2. Branded Content and Storytelling

14.6. Digital Marketing to Attract and Retain Customers
- 14.6.1. Loyalty and Engagement Strategies Using the Internet
- 14.6.2. *Visitor Relationship Management*
- 14.6.3. Hypersegmentation

14.7. Digital Campaign Management
- 14.7.1. What Is a Digital Advertising Campaign?
- 14.7.2. Steps to Launch an Online Marketing Campaign
- 14.7.3. Mistakes in Digital Advertising Campaigns

14.8. Sales Strategy
- 14.8.1. Sales Strategy
- 14.8.2. Sales Methods

14.9. Corporate Communication
- 14.9.1. Concept
- 14.9.2. The Importance of Communication in the Organization
- 14.9.3. Type of Communication in the Organization
- 14.9.4. Functions of Communication in the Organization
- 14.9.5. Elements of Communication
- 14.9.6. Problems of Communication
- 14.9.7. Communication Scenarios

14.10. Digital Communication and Reputation
- 14.10.1. Online Reputation
- 14.10.2. How to Measure Digital Reputation?
- 14.10.3. Online Reputation Tools
- 14.10.4. Online Reputation Report
- 14.10.5. Online Branding

Module 15. Executive Management

15.1. General Management
- 15.1.1. The Concept of General Management
- 15.1.2. The Role of the CEO
- 15.1.3. The CEO and their Responsibilities
- 15.1.4. Transforming the Work of Management

15.2. Manager Functions: Organizational Culture and Approaches
- 15.2.1. Manager Functions: Organizational Culture and Approaches

15.3. Operations Management
- 15.3.1. The Importance of Management
- 15.3.2. Value Chain
- 15.3.3. Quality Management

15.4. Public Speaking and Spokesperson Education
- 15.4.1. Interpersonal Communication
- 15.4.2. Communication Skills and Influence
- 15.4.3. Communication Barriers

15.5. Personal and Organizational Communication Tools
- 15.5.1. Interpersonal Communication
- 15.5.2. Interpersonal Communication Tools
- 15.5.3. Communication in the Organization
- 15.5.4. Tools in the Organization

15.6. Communication in Crisis Situations
- 15.6.1. Crisis
- 15.6.2. Phases of the Crisis
- 15.6.3. Messages: Contents and Moments

15.7. Preparation of a Crisis Plan
- 15.7.1. Analysis of Possible Problems
- 15.7.2. Planning
- 15.7.3. Adequacy of Personnel

15.8. Emotional Intelligence
- 15.8.1. Emotional Intelligence and Communication
- 15.8.2. Assertiveness, Empathy, and Active Listening
- 15.8.3. Self- Esteem and Emotional Communication

15.9. Personal Branding
- 15.9.1. Strategies for Personal Brand Development
- 15.9.2. Personal Branding Laws
- 15.9.3. Tools for Creating Personal Brands

15.10. Leadership and Team Management
- 15.10.1. Leadership and Leadership Styles
- 15.10.2. Leadership Skills and Challenges
- 15.10.3. Managing Change Processes
- 15.10.4. Managing Multicultural Teams

The best teaching staff and its innovative teaching system are combined with the most complete and up-to-date syllabus: you have a great opportunity to progress as a computer scientist"

06

Methodology

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

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

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

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

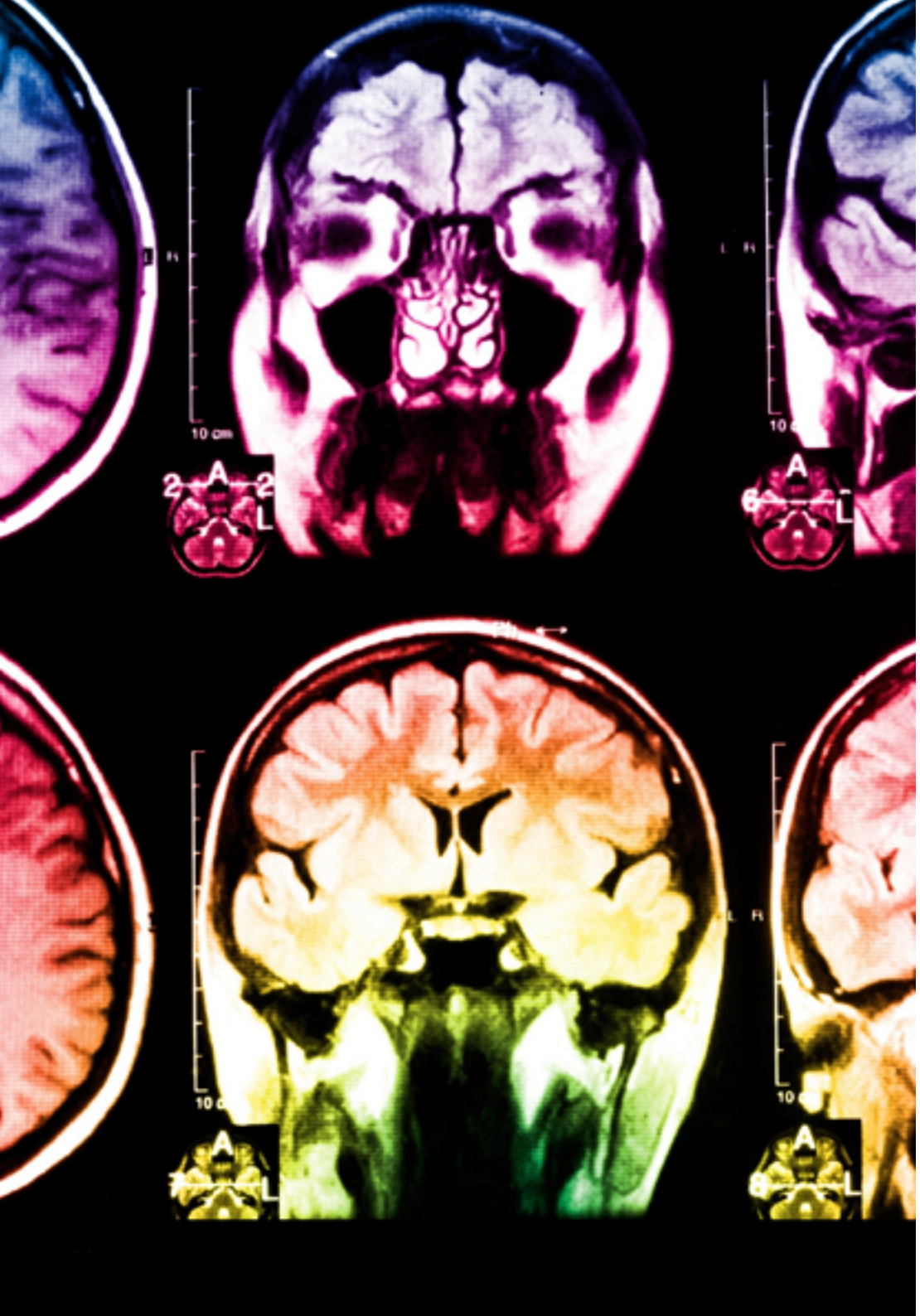
TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

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.

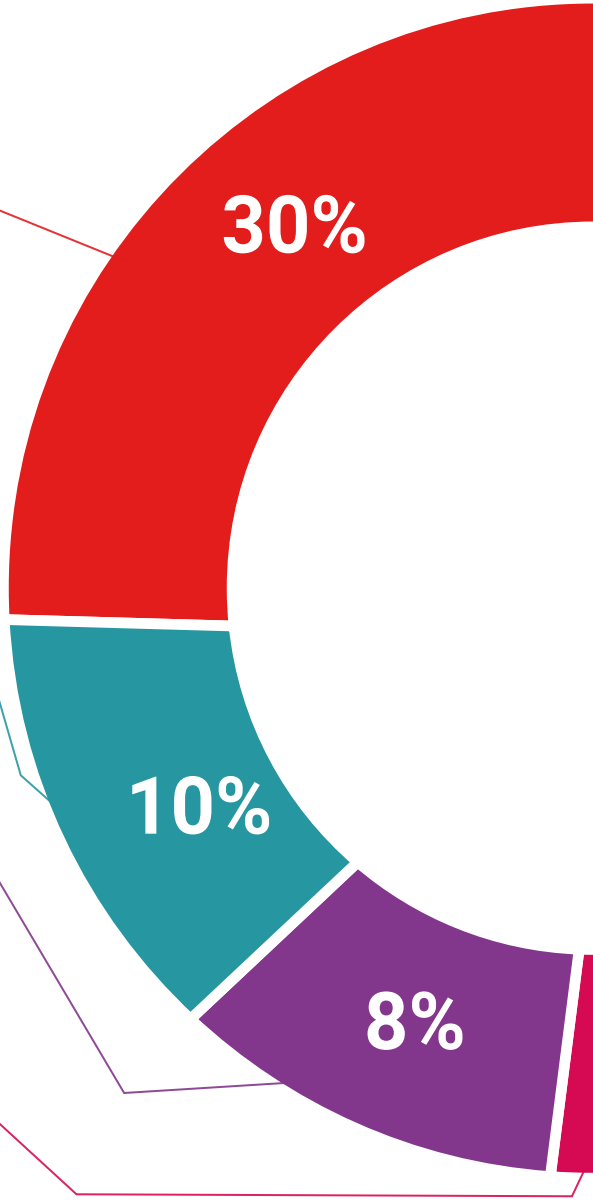
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.

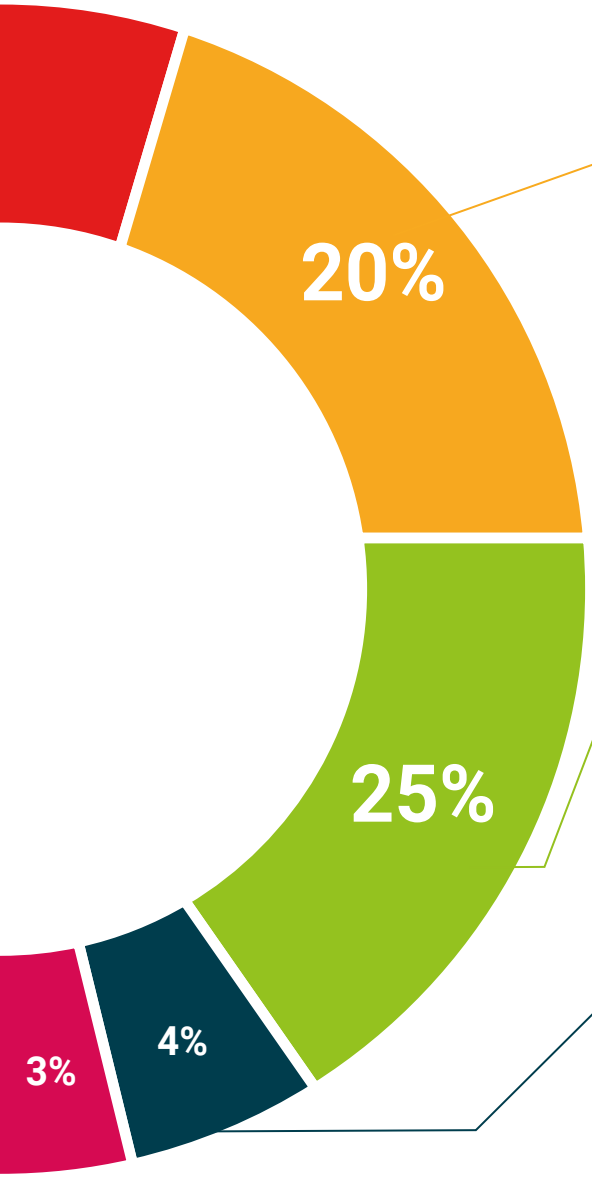
Practising Skills and Abilities

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.

07

Certificate

The MBA in Advanced Cybersecurity Management (CISO) guarantees, in addition to the most rigorous and up-to-date education, access to a Professional Master's Degree issued by TECH Global University.

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

This private qualification will allow you to obtain a **MBA in Advanced Cybersecurity Management (CISO)** 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 private qualification**, 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: **Professional Master's Degree MBA in Advanced Cybersecurity Management (CISO)**

Modality: **online**

Duration: **12 months**

Accreditation: **90 ECTS**


tech global university

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

Professional Master's Degree in MBA in Advanced Cybersecurity Management (CISO)

This is a private qualification of 2,700 hours of duration equivalent to 90 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

Dr. Pedro Navarro Illana
Dean

Unique TECH Code: AFWORD23S techtitute.com/certificates


Professional Master's Degree in MBA in Advanced Cybersecurity Management (CISO)

General Structure of the Syllabus

Subject type	ECTS
Compulsory (CO)	90
Optional (OP)	0
External Work Placement (WP)	0
Master's Degree Thesis (MDT)	0
	Total 90

General Structure of the Syllabus

Year	Subject	ECTS	Type
1º	Security in System Design and Development	6	CO
1º	Information Security Architectures and Models	6	CO
1º	IT Security Management	6	CO
1º	Risk Analysis and IT Security Environment	6	CO
1º	Cryptography in IT	6	CO
1º	Identity and Access Management in IT Security	6	CO
1º	Security in Communications and Software Operationt	6	CO
1º	Security in Cloud Environments	6	CO
1º	Security in IoT Device Communications	6	CO
1º	Business Continuity Plan Associated with Security	6	CO
1º	Leadership, Ethics and Social Responsibility in Companies	6	CO
1º	People and Talent Management	6	CO
1º	Economic and Financial Management	6	CO
1º	Commercial Management and Strategic Marketing	6	CO
1º	Executive Management	6	CO

Dr. Pedro Navarro Illana
Dean

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*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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Professional Master's Degree

MBA in Advanced Cybersecurity Management (CISO)

- Modality: **online**
- Duration: **12 months**
- Certificate: **TECH Global University**
- Accreditation: **90 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Professional Master's Degree

MBA in Advanced Cybersecurity Management (CISO)

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