

Postgraduate Diploma
Information Security
Threat Management



Postgraduate Diploma Information Security Threat Management

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/information-technology/postgraduate-diploma/postgraduate-diploma-information-security-threat-management

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01

Introduction

A survey by the World Economic Forum reveals that *Ransomware* attacks in companies increased by 150% in 2021, compared to the previous year. A threat that affects both large companies, institutions and small businesses operating on the network. This scenario forces a correct implementation of an Information Security Management System (ISMS). This 100% online training provides IT professionals with specific knowledge in the field of security, which also includes all its development under the correct application of the existing legal framework. A teaching team with extensive experience in the cybersecurity sector teaches this program, which can be accessed anytime and anywhere from a device with an internet connection.



“

Transform any company into a secure environment, free from cyber threats with this Postgraduate Diploma"

Internet security has become one of the main problems for large companies and governments that invest large sums of money to prevent the theft of particularly sensitive data and information. This problem is dealt with by IT professionals capable of detecting and anticipating hackers, although to do so, they require in-depth knowledge, not only of the technique, but also of the most advanced and applicable concepts in an ISMS.

This Postgraduate Diploma in Information Security Threat Management provides students with an in-depth understanding of the pillars on which the ISMS is based, the documents and models to be implemented, as well as the regulations and standards currently applicable. A teaching team, with experience in IT and cybersecurity-oriented law, will provide the essential guidelines for managing security in a company in application of the ISO/ISO 27000 standard, which establishes the framework of good practices for information security.

An excellent opportunity for IT professionals who wish to advance their careers by providing maximum security to the companies that request their services. TECH's online model makes it possible to balance work and personal life by facilitating access to the entire syllabus from the first day, without schedules and with the possibility of downloading the content for viewing with a device with an internet connection.

This **Postgraduate Diploma in Information Security Threat Management** contains the most complete and up-to-date program on the market. The most important features include:

- ◆ The development of practical cases presented by IT security experts
- ◆ The graphic, schematic and practical contents of the book provide technical and practical information on those disciplines that are essential for professional practice
- ◆ Practical exercises where self-assessment can be used to improve learning
- ◆ Its special emphasis on innovative methodologies
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



Learn more about the benefits of ISO/IEC 27.000 standards and apply them to provide IT Security"

“

Advance in the field of IT Security. Everyday, millions of companies are affected by cyber-attacks. Enroll in this Postgraduate Diploma"

The program's teaching team includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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

The design of this program is focused on Problem-Based Learning, through which professionals must try to solve the different professional practice situations that are presented to them throughout the educational program. This will be done with the help of an innovative system of interactive videos made by renowned experts.

Plan and design a seamless ISMS for business. Be the IT security professional they are looking for.

Businesses are demanding IT professionals who are able to protect their most sensitive data. Become an expert in IT Security.



02 Objectives

This Postgraduate Diploma gives students the opportunity to delve into the key concepts of information security, as well as to achieve a correct implementation of an ISMS according to the basic standards and existing regulations in order to achieve a specialization that will facilitate the progression in their professional career. The practical cases, which will put the IT professionals in a real situation, and the Relearning system, based on the reiteration of content, will facilitate the achievement of these goals.





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*Get the keys to implement an ISMS
in compliance with all existing
regulations. Become a great
information security professional”*



General Objectives

- ◆ Study the key concepts of information security in depth
- ◆ Develop the necessary measures to ensure good information security practices
- ◆ Develop the different methodologies for conducting a comprehensive threat analysis
- ◆ Install and learn about the different tools used in the treatment and prevention of incidents



Implement the most effective security countermeasures thanks to this Postgraduate Diploma. Click and enroll now"





Specific Objectives

Module 1. Information Security Management System (ISMS)

- ◆ Analyze the regulations and standards currently applicable to ISMS
- ◆ Develop the necessary phases to implement an ISMS in an entity
- ◆ Analyze information security incident management and implementation procedures

Module 2. Organizational Aspects of Information Security Policy

- ◆ Implementing an ISMS in the company
- ◆ Determine which departments should be covered by the implementation of the safety management system
- ◆ Implement necessary security countermeasures in the operation

Module 3. Security Policies for the Analysis of Threats in Computer Systems

- ◆ Analyze the meaning of threats
- ◆ Determine the phases of preventive threat management
- ◆ Compare different threat management methodologies

03

Course Management

The professionals who make up the teaching staff of this Postgraduate Diploma have a high-level academic degree and extensive experience in the Cybersecurity sector. It is precisely their participation in computer security projects, which will help students to know the reality in the technology sector, the main problems that are detected in the protocols of action, as well as their correction to give guarantees and peace of mind to companies. During this six-month course, the teachers will accompany the students in a quality education, which will improve their skills throughout the learning process.





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Experts in cybersecurity and data protection will provide you with their valuable experience in this Postgraduate Diploma"

Management



Ms. Fernández Sapena, Sonia

- Trainer in Computer Security and Ethical Hacking at the National Reference Center of Getafe in Computer Science and Telecommunications in Madrid
- Certified E-Council instructor
- Trainer in the following certifications: EXIN Ethical Hacking Foundation and EXIN Cyber & IT Security Foundation. Madrid
- Accredited expert trainer by the CAM of the following certificates of professionalism: Computer Security (IFCT0190), Voice and Data Network Management (IFCM0310), Departmental Network Administration (IFCT0410), Alarm Management in Telecommunications Networks (IFCM0410), Voice and Data Network Operator (IFCM0110), and Internet Services Administration (IFCT0509)
- External collaborator CSO/SSA (Chief Security Officer/Senior Security Architect) at the University of the Balearic Islands
- Degree in Computer Engineering from the University of Alcalá de Henares, Madrid
- Master in DevOps: Docker and Kubernetes. Cas-Training
- Microsoft Azure Security Technologies. E-Council

Professors

Mr. Oropesiano Carrizosa, Francisco

- ♦ Computer Engineer
- ♦ Microcomputing, Networking and Security Technician at Cas-Training
- ♦ Web Services, CMS, e-Commerce, UI and UX Developer at Fersa Reparaciones
- ♦ Web services, content, mail and DNS manager at Oropesia Web & Network
- ♦ Graphic and web applications designer at Xarxa Sakai Projectes
- ♦ Diploma in Computer Systems at the University of Alcalá de Henares
- ♦ Master in DevOps: Docker and Kubernetes at Cyber Business Center
- ♦ Network and Computer Security Technician from the University of the Balearic Islands
- ♦ Expert in Graphic Design from the Polytechnic University of Madrid

Mr. Ortega López, Florencio

- ♦ Security Consultant (Identity Management) at SIA Group
- ♦ ICT and Security Consultant as an independent professional
- ♦ Teacher trainer in the IT sector
- ♦ Graduate in Technical Industrial Engineering at the University of Alcalá de Henares
- ♦ Master's Degree for Teachers by UNIR
- ♦ MBA in Business Administration and Management by IDE-CESEM
- ♦ Master's Degree in Information Technology Direction and Management by IDE-CESEM
- ♦ Certified Information Security Management (CISM) from la ISACA

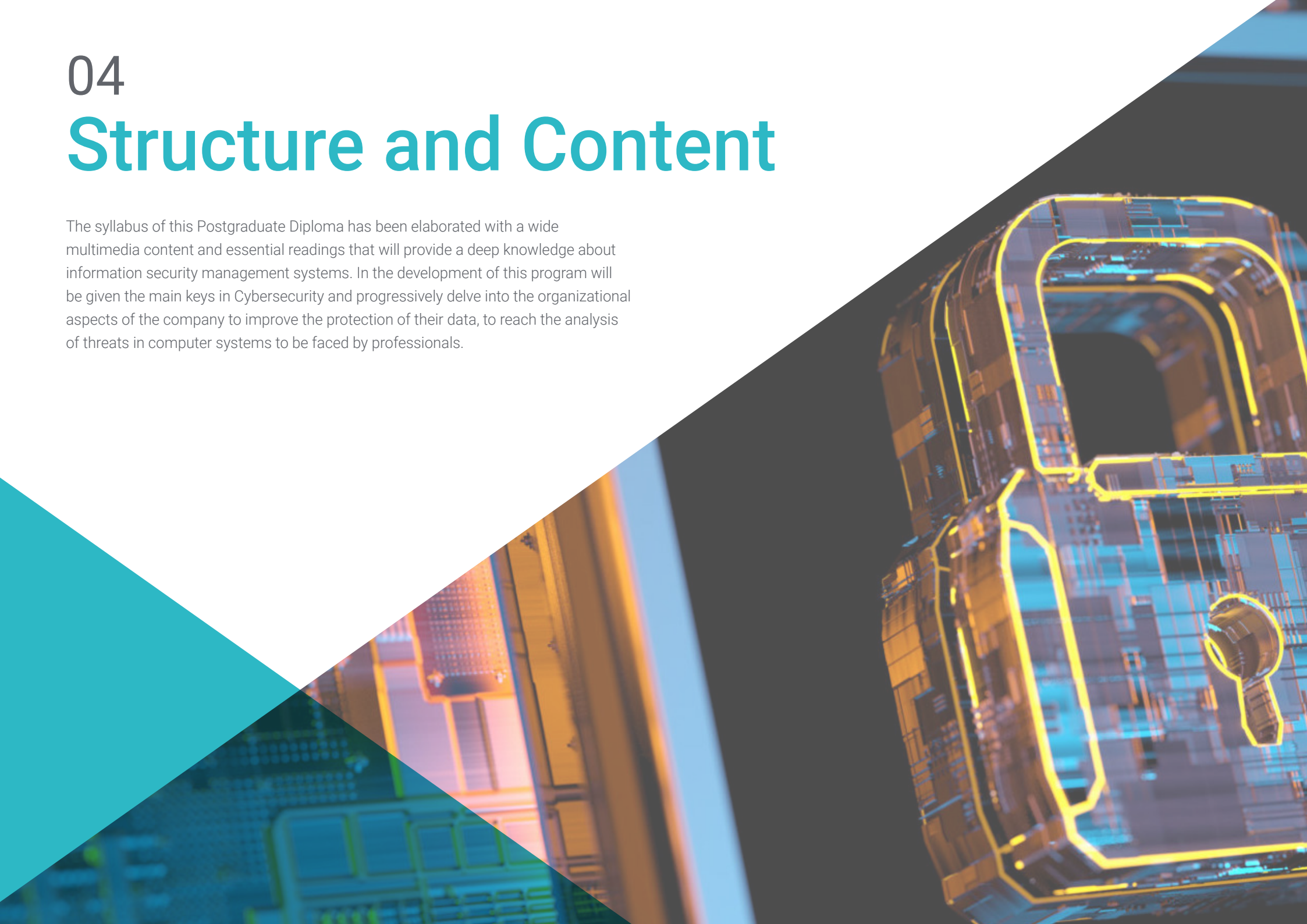
Mr. Peralta Alonso, Jon

- ♦ Senior Consultant - Data Protection and Cybersecurity. Altia
- ♦ Lawyer / Legal advisor. Arriaga Asociados Asesoramiento Jurídico y Económico, S.L.
- ♦ Legal Advisor / Intern. Professional office: Oscar Padura
- ♦ Law Degree. Public University of the Basque Country
- ♦ Professional Master's Degree in Data Protection Officer. Escuela innovadora EIS
- ♦ Professional Master's Degree in Law. Public University of the Basque Country
- ♦ Professional Master's Degree in Civil Litigation Practice. Isabel I de Castilla International University
- ♦ Professor in Master's Degree in Personal Data Protection, Cybersecurity and ICT Law

04

Structure and Content

The syllabus of this Postgraduate Diploma has been elaborated with a wide multimedia content and essential readings that will provide a deep knowledge about information security management systems. In the development of this program will be given the main keys in Cybersecurity and progressively delve into the organizational aspects of the company to improve the protection of their data, to reach the analysis of threats in computer systems to be faced by professionals.

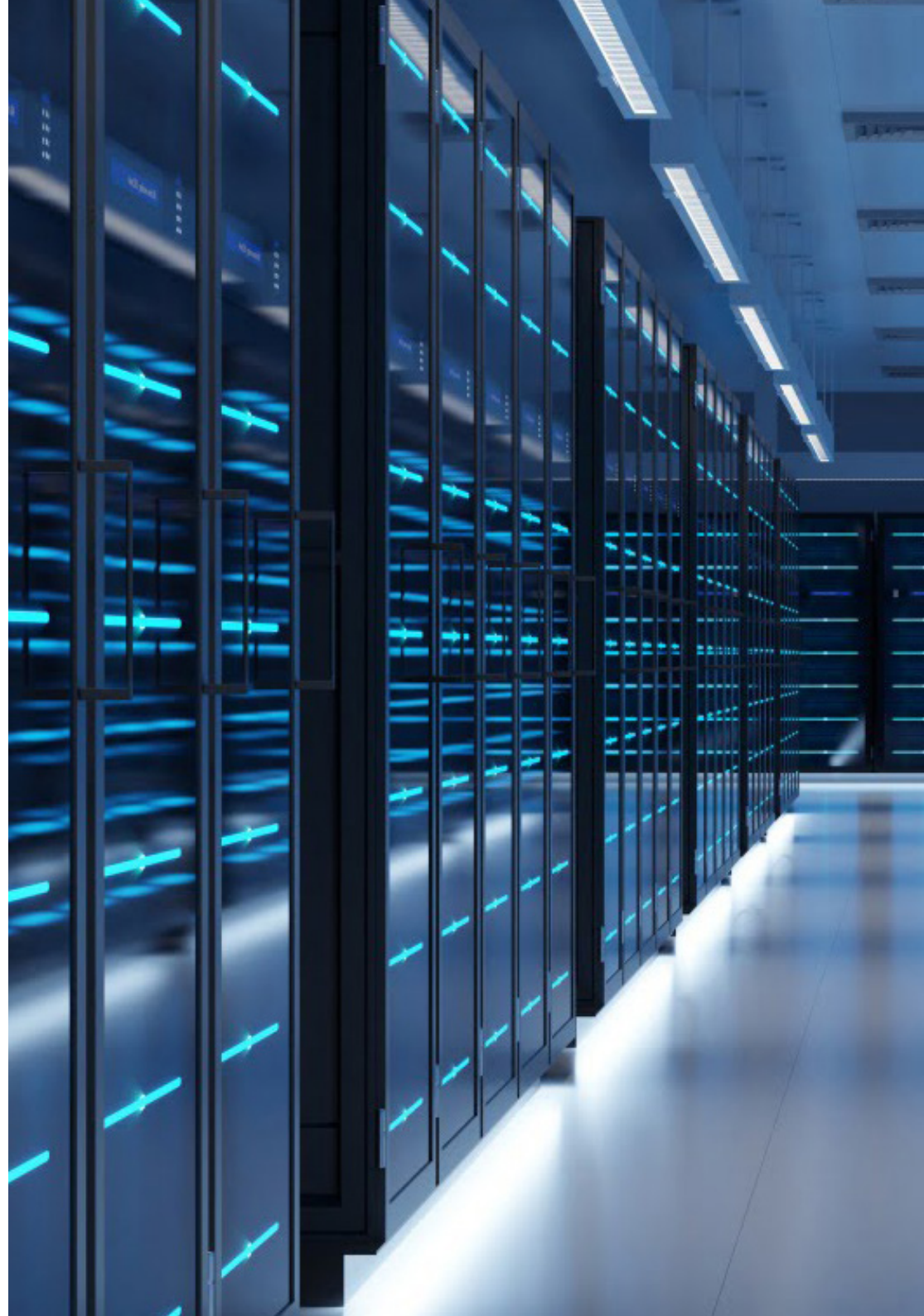


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A curriculum that will give you the guidelines to implement effective security policies in any company"

Module 1. Information Security Management System (ISMS)

- 1.1. Information Security. Key Aspects
 - 1.1.1. Information Security
 - 1.1.1.1. Confidentiality
 - 1.1.1.2. Integrity
 - 1.1.1.3. Availability
 - 1.1.1.4. Information Security Measurements
- 1.2. Information Security Management Systems
 - 1.2.1. Information Security Management Models
 - 1.2.2. Documents to Implement an ISMS
 - 1.2.3. Levels and Controls of an ISMS
- 1.3. International Norms and Standards
 - 1.3.1. International Standards in Information Security
 - 1.3.2. Origin and Evolution of the Standard
 - 1.3.3. International Information Security Management Standards
 - 1.3.4. Other Reference Standards
- 1.4. ISO/IEC 27,000 Standards
 - 1.4.1. Purpose and Areas of Application
 - 1.4.2. Structure of the Standard
 - 1.4.3. Certification
 - 1.4.4. Accreditation Phases
 - 1.4.5. Benefits of ISO/IEC 27,000 Standards
- 1.5. Design and Implementation of a General Information Security System
 - 1.5.1. Phases of Implementation of a General Information Security System
 - 1.5.2. Business Continuity Plans
- 1.6. Phase I: Diagnosis
 - 1.6.1. Preliminary Diagnosis
 - 1.6.2. Identification of the Stratification Level
 - 1.6.3. Level of Compliance with Standards/Norms



- 1.7. Phase II: Preparation
 - 1.7.1. Context of the Organization
 - 1.7.2. Analysis of Applicable Safety Regulations
 - 1.7.3. Scope of the General Information Security System
 - 1.7.4. General Information Security System Policy
 - 1.7.5. Objectives of the General Information Security System
 - 1.8. Phase III: Planning
 - 1.8.1. Asset Classification
 - 1.8.2. Risk Assessment
 - 1.8.3. Identification of Threats and Risks
 - 1.9. Phase IV: Implementation and Follow-up
 - 1.9.1. Analysis of Results
 - 1.9.2. Assigning Responsibilities
 - 1.9.3. Timing of the Action Plan
 - 1.9.4. Monitoring and Audits
 - 1.10. Incident Management Security Policies
 - 1.10.1. Phases
 - 1.10.2. Incident Categorization
 - 1.10.3. Incident Management and Procedures
- Module 2. Organizational Aspects of Information Security Policy**
- 2.1. Internal Organization
 - 2.1.1. Assigning Responsibilities
 - 2.1.2. Segregation of Duties
 - 2.1.3. Contacts with Authorities
 - 2.1.4. Information Security in Project Management
 - 2.2. Asset Management
 - 2.2.1. Liability for Assets
 - 2.2.2. Classification of Information
 - 2.2.3. Handling of Storage Media
 - 2.3. Security Policies in Business Processes
 - 2.3.1. Analysis of the Vulnerabilities of Business Processes
 - 2.3.2. Business Impact Analysis
 - 2.3.3. Classification of Processes with Respect to Business Impact
 - 2.4. Security Policies Linked to Human Resources
 - 2.4.1. Before Hiring
 - 2.4.2. During Contracting
 - 2.4.3. Termination or Change of Position
 - 2.5. Management Security Policies
 - 2.5.1. Management Guidelines on Information Security
 - 2.5.2. BIA - Analyzing the Impact
 - 2.5.3. Recovery Plan as a Security Policy
 - 2.6. Acquisition and Maintenance of Information Systems
 - 2.6.1. Information Systems Security Requirements
 - 2.6.2. Development and Support Data Security
 - 2.6.3. Test Data
 - 2.7. Security with Suppliers
 - 2.7.1. IT Security with Suppliers
 - 2.7.2. Management of Service Delivery with Assurance
 - 2.7.3. Supply Chain Security
 - 2.8. Operational Safety
 - 2.8.1. Operational Responsibilities
 - 2.8.2. Protection Against Malicious Code
 - 2.8.3. Backup Copies
 - 2.8.4. Activity and Supervision Records
 - 2.9. Safety and Regulatory Management
 - 2.9.1. Compliance with Legal Requirements
 - 2.9.2. Information Security Reviews
 - 2.10. Business Continuity Management Security
 - 2.10.1. Continuity of Information Security
 - 2.10.2. Redundancies

Module 3. Security Policies for the Analysis of Threats in Computer Systems

- 3.1. Threat Management in Security Policies
 - 3.1.1. Risk Management
 - 3.1.2. Security Risk
 - 3.1.3. Threat Management Methodologies
 - 3.1.4. Implementation of Methodologies
- 3.2. Phases of Threat Management
 - 3.2.1. Identification
 - 3.2.2. Analysis
 - 3.2.3. Localization
 - 3.2.4. Safeguard Measures
- 3.3. Audit Systems for Threat Localization
 - 3.3.1. Classification and Information Flow
 - 3.3.2. Analysis of Vulnerable Processes
- 3.4. Risk Classification
 - 3.4.1. Types of Risk
 - 3.4.2. Calculation of Threat Probability
 - 3.4.3. Residual Risk
- 3.5. Risk Treatment
 - 3.5.1. Implementation of Safeguard Measures
 - 3.5.2. Transfer or Assume
- 3.6. Control Risks
 - 3.6.1. Continuous Risk Management Process
 - 3.6.2. Implementation of Security Metrics
 - 3.6.3. Strategic Model of Information Security Metrics
- 3.7. Practical Methodologies for Threat Analysis and Control
 - 3.7.1. Threat Catalog
 - 3.7.2. Catalog of Control Measures
 - 3.7.3. Safeguards Catalog



- 3.8. ISO 27005
 - 3.8.1. Risk Identification
 - 3.8.2. Risk Analysis
 - 3.8.3. Risk Evaluation
- 3.9. Risk, Impact and Threat Matrix
 - 3.9.1. Data, Systems and Personnel
 - 3.9.2. Threat Probability
 - 3.9.3. Magnitude of Damage
- 3.10. Design of Phases and Processes in Threat Analysis
 - 3.10.1. Identification of Critical Organizational Elements
 - 3.10.2. Determination of Threats and Impacts
 - 3.10.3. Impact and Risk Analysis
 - 3.10.4. Methods

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The practical cases of this Postgraduate Diploma will put you in real situations of cyber-attacks. The knowledge acquired will help you to deal with them"

05 Methodology

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

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





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

Case Study to contextualize all content

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

“

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



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



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

A learning method that is different and innovative

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

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

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

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

Relearning Methodology

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

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

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

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

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



In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

This methodology has trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, and financial markets and instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

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

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

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



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



Study Material

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

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



Classes

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

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



Practising Skills and Abilities

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



Additional Reading

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





Case Studies

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



Interactive Summaries

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

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



Testing & Retesting

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



06

Certificate

The Postgraduate Diploma in Information Security Threat Management guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Global University.



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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 **Postgraduate Diploma in Information Security Threat Management** 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.

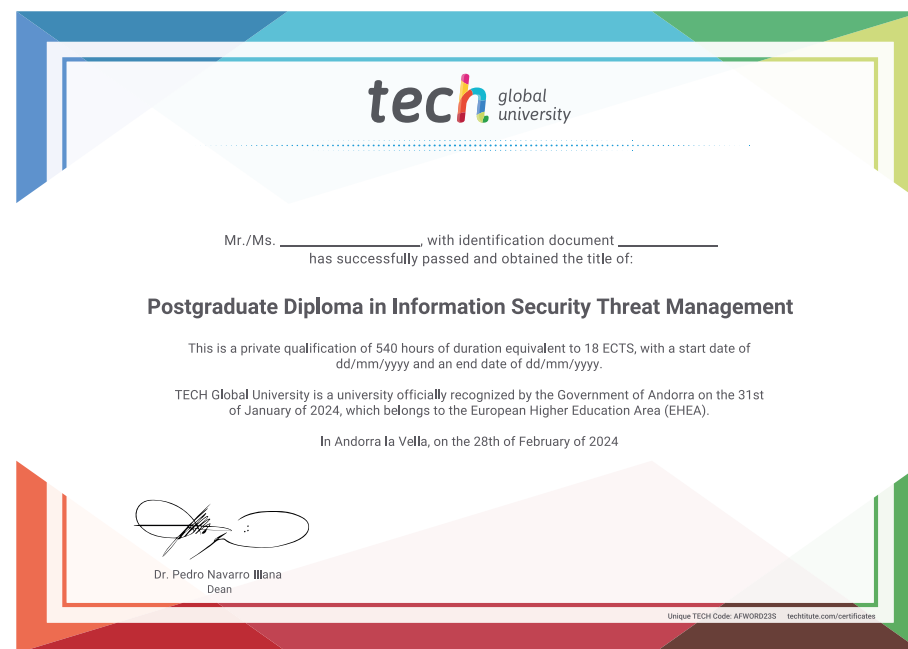
This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

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Modality: **online**

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Accreditation: **18 ECTS**



future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
development language
virtual classroom



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Information Security
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