

Postgraduate Certificate Website Security Systems



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- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/information-technology/postgraduate-certificate/website-security-systems

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01

Introduction

Designing a website requires professionals who can not only deliver on the initial idea, but also on developing the website in a secure, user-friendly and legally compliant fashion. TECH has designed this high-level program for computer engineers to update their knowledge of Website Security Systems with the help of professionals with years of experience in the sector and with the most innovative educational material on the market.

NETWORK
SECURITY





“

Deepen your knowledge in the field of computer technologies by incorporating the most advanced aspects of this area of work”

This intensive program addresses the most relevant aspects of Website Security. It analyzes the most detected and exploited web vulnerabilities at a global level as well as their prevention, and it establishes the guidelines to perform web audits to detect such risks and vulnerabilities.

Despite the various actions to prevent systems from being compromised, it is essential to establish a security incident response process because, as the student will learn, there is no such thing as a 100% secure environment.

This Postgraduate Certificate has been created by a team of expert teachers with multi-faceted skillsets and a wealth of experience and specialized knowledge in their respective fields. As it is a 100% online program, the student will not have to neglect their personal or professional commitments. Upon completion of the program, students will have updated their knowledge and will be in possession of a highly prestigious Postgraduate Certificate that will allow them to advance personally and professionally.

This **Postgraduate Certificate in Website Security Systems** contains the most complete and up-to-date program on the market. Its most notable features are:

- ◆ Case studies presented by experts in Website Security Systems
- ◆ The graphic, schematic, and practical contents which they contain, 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
- ◆ A special emphasis on innovative methodologies
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



A unique opportunity to specialize in Website Security from renowned professionals with years of experience in the industry"

“

In this Postgraduate Certificate you will be able to balance the efficiency of the most advanced learning methods with the flexibility of a program created to adapt to your schedule, without sacrificing quality”

The program’s teaching staff includes professionals from the sector who pour their work experience into this Professional Master’s Degree program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive learning designed for real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to resolve the different professional practice situations that arise during the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

Learn how to remedy the most common vulnerabilities found in web applications.

A comprehensive and highly relevant course for IT professionals, which will allow you to compete among the best in the industry.



02 Objectives

Through a work approach that is fully adaptable to the student, this Postgraduate Certificate will progressively lead them to acquire the skills that will propel them to a superior professional level. The objective of this program is to train professionals in Website Security Systems, with the necessary knowledge and skills to perform their work, using the most advanced protocols and techniques in existence. A unique program designed by professionals with extensive experience in the sector.



“

A complete and cutting-edge program that will allow you to progressively and completely acquire the knowledge you need to work in this sector”



General Objectives

- ◆ Address the most relevant aspects of website security
- ◆ Analyze the most detected and exploited web vulnerabilities at a global level and how to prevent them
- ◆ Establish guidelines to perform web audits to detect and prevent such risks and vulnerabilities
- ◆ Establish a security incident response process, since, as we will see, a 100% secure environment does not exist



All the subjects and areas of knowledge have been compiled in a complete and up-to-date syllabus, in order to bring the student to the highest theoretical and practical level"





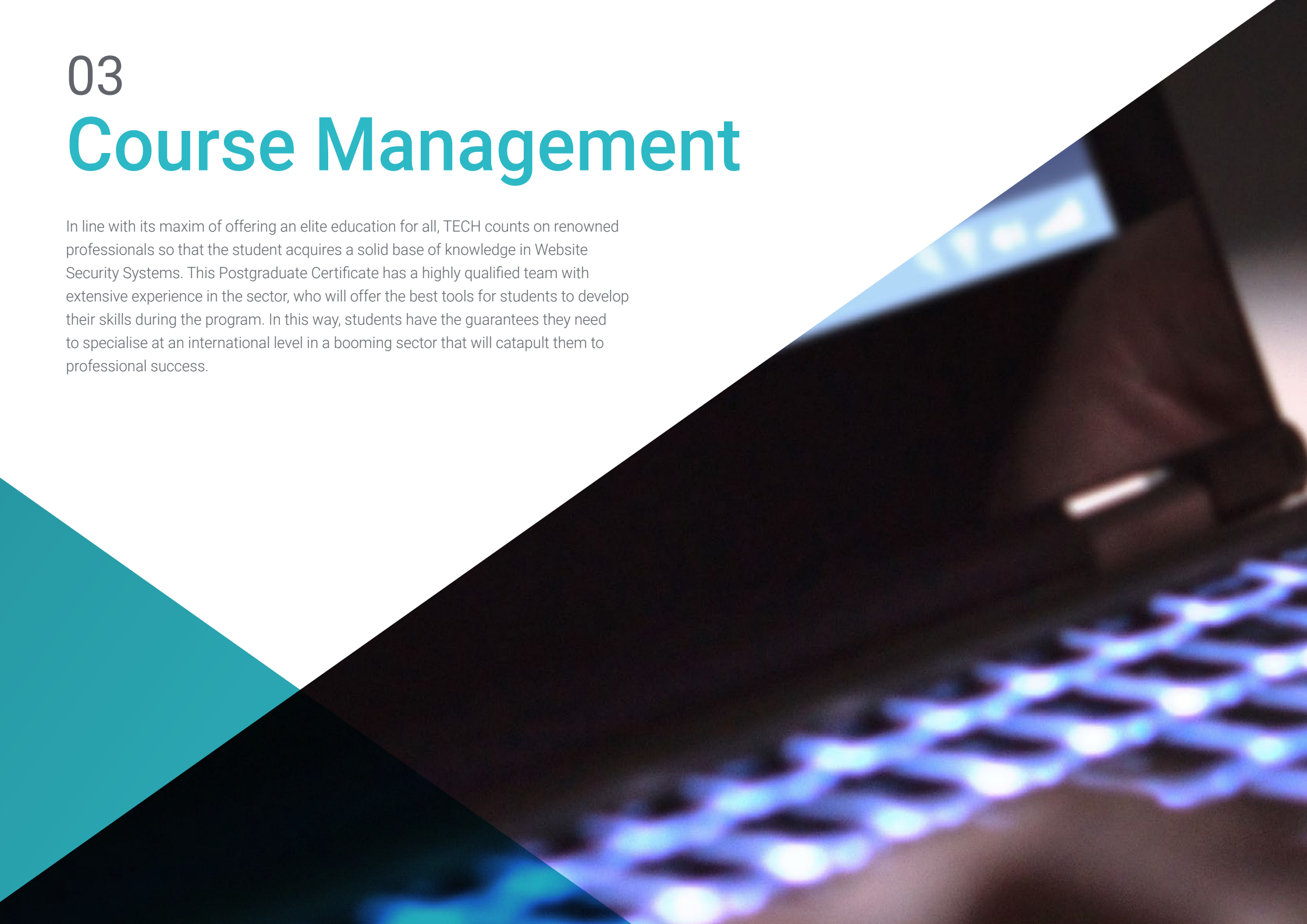
Specific Objectives

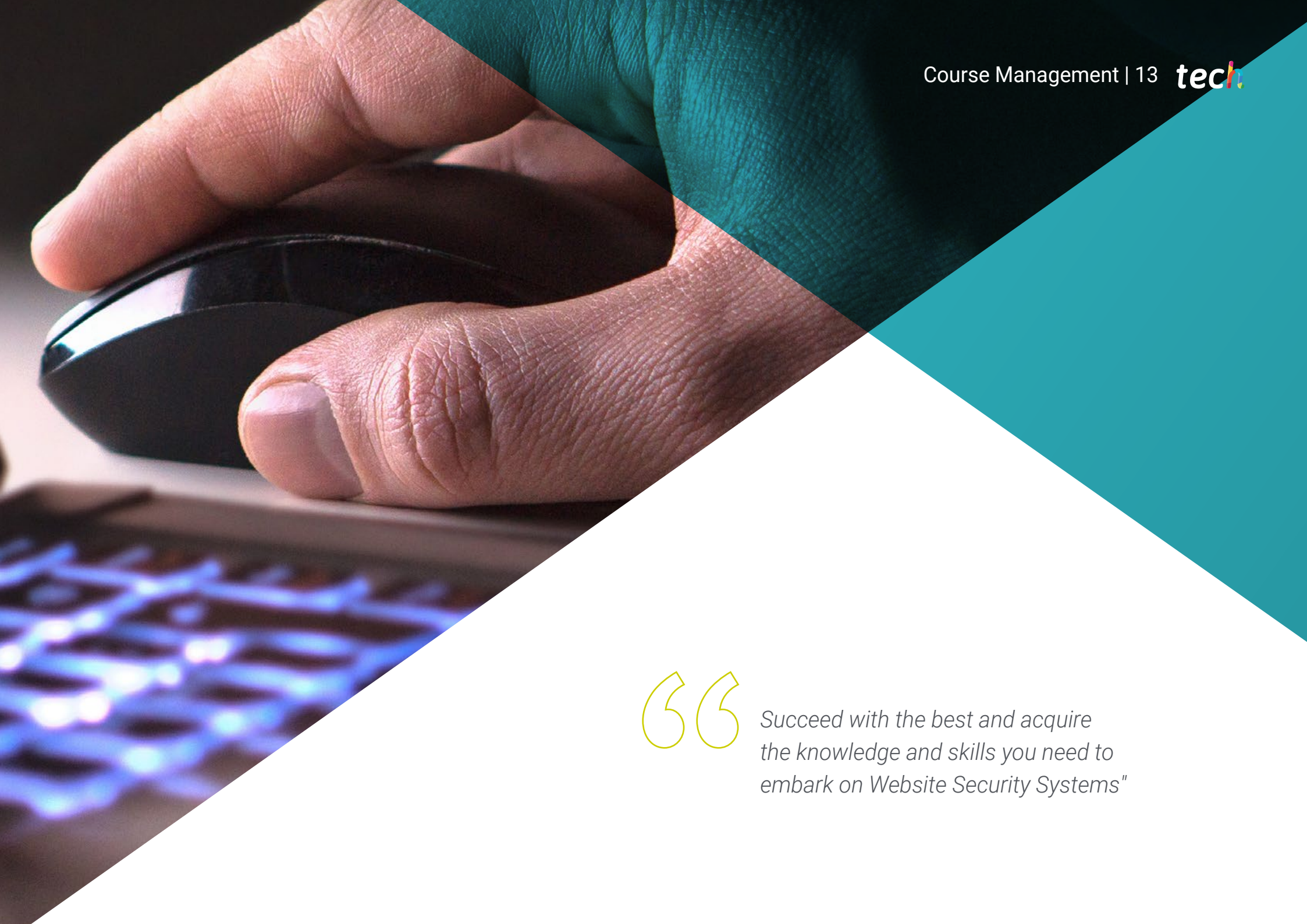
- ◆ Analyze the OWASP Top 10 project
- ◆ Manage CMS Environment Security
- ◆ Check the differences between the different authentication methods
- ◆ Determine the most common vulnerabilities found in web applications
- ◆ Identify the different attacks and risks in APIs
- ◆ Analyze the different HTTP headers in terms of security
- ◆ Distinguish the different types of web audits that we can establish
- ◆ Evaluate web vulnerabilities associated with communications

03

Course Management

In line with its maxim of offering an elite education for all, TECH counts on renowned professionals so that the student acquires a solid base of knowledge in Website Security Systems. This Postgraduate Certificate has a highly qualified team with extensive experience in the sector, who will offer the best tools for students to develop their skills during the program. In this way, students have the guarantees they need to specialise at an international level in a booming sector that will catapult them to professional success.





“

Succeed with the best and acquire the knowledge and skills you need to embark on Website Security Systems”

Management



Mr. Gris Ramos, Alejandro

- Director of Persatrace, web development and digital marketing agency
- Director of Club de Talentos
- Computer Engineer UNED
- Master's Degree in Digital Teaching and Learning Tech Education
- Master's Degree in High Abilities and Inclusive Education
- Business Development Director at Alenda Golf
- Director of Web Applications Engineering Department at Brilogic
- Web programmer at Grupo Ibergest
- Software/web programmer at Reebok Spain



Professors

Mr. Del Moral García, Francisco José

- ◆ Degree in Telecommunication Technologies Engineering, University of Granada Specialty: Telecommunication Systems
- ◆ Master's Degree in IT Security, International University of La Rioja
- ◆ Roca Sanitario (Cyber Security Analyst)
- ◆ Allianz Technology (Information Security Analyst)
- ◆ Clover Technologies (IT Security Airbus Defence and Space)
- ◆ EVERIS (Solutions Assistant)

“

*An excellent teaching staff
for professionals who want
to improve in their career”*

04

Structure and Content

The syllabus has been designed to offer educational efficiency, carefully selecting the contents to offer a complete course, which includes all the fields of study essential to achieve real knowledge of the subject with the latest updates and developments of the sector. As a result, a program has been established with modules that offer a broad overview of Website Security Systems From the first module students will see their knowledge expanding, which will enable them to develop professionally, knowing that they can count on the support of a team of experts.



“

A high-quality Postgraduate Certificate that will allow the student to advance quickly and steadily in the acquisition of knowledge, with the scientific rigor of world class teaching"

Module 1. Website Security Systems

- 1.1. Perimeter Security
 - 1.1.1. Network Firewall
 - 1.1.2. Demilitarized Zone (DMZ)
 - 1.1.3. Load Balancers
 - 1.1.3.1. Content Delivery Network (CDN)
 - 1.1.4. Web Application Firewall (WAF)
- 1.2. Encrypted Web Communications
 - 1.2.1. SSL Certified
 - 1.2.2. Protocols
 - 1.2.3. Cipher Suites
 - 1.2.4. Vulnerabilities
 - 1.2.4.1. Poodle
 - 1.2.4.2. Ticketbleed
 - 1.2.4.3. Beast attack
 - 1.2.4.4. ROBOT
 - 1.2.4.5. Heartbleed
- 1.3. Vulnerability Analysis
 - 1.3.1. XXS (Cross Site Scripting)
 - 1.3.2. SQL Injection
 - 1.3.3. CSRF
 - 1.3.4. Code Injection
 - 1.3.5. DoS
 - 1.3.5.1. DDos
- 1.4. Security Headers
 - 1.4.1. X-Frame Options
 - 1.4.2. X-XSS-Protection
 - 1.4.3. X-Content-Type-Options
 - 1.4.4. Referrer Policy
 - 1.4.5. HTTPS Strict Transport Security (HSTS)



- 1.5. Authentication and Authorization
 - 1.5.1. HTTP Authentication
 - 1.5.1.1. Basic
 - 1.5.1.2. Digest
 - 1.5.1.3. NTLM
 - 1.5.2. Protocols and Standards
 - 1.5.2.1. OAuth
 - 1.5.2.2. OpenID
- 1.6. Web Auditing
 - 1.6.1. Auditing Technique
 - 1.6.1.1. Black Box
 - 1.6.1.2. White Box
 - 1.6.1.3. Grey Box
 - 1.6.2. OWASP Methodology
 - 1.6.3. Bug Bounty
- 1.7. Application Programming Interface (API) Security
 - 1.7.1. Types of APIs
 - 1.7.1.1. REST
 - 1.7.1.2. SOAP
 - 1.7.1.3. Others
 - 1.7.2. Attacks and Risks
 - 1.7.3. Traffic Analysis
- 1.8. Content Management System (CMS) Security Management
 - 1.8.1. Wordpress
 - 1.8.2. Joomla
 - 1.8.3. Drupal
 - 1.8.4. Magento

- 1.9. Secure Application Development
 - 1.9.1. Secure Software Development Life Cycle
 - 1.9.2. Risk Assessment
 - 1.9.3. Security Tests
 - 1.9.4. Good Practices
- 1.10. Crisis Management and Resilience
 - 1.10.1. Crisis Management and Incident Response
 - 1.10.2. Security Incident Response Process
 - 1.10.2.1. Preparation
 - 1.10.2.2. Identification
 - 1.10.2.3. Containment
 - 1.10.2.4. Eradication
 - 1.10.2.5. Recuperation
 - 1.10.2.6. Lessons Learned
 - 1.10.3. Backup Copies



A unique specialization program that stands out due to the quality of its contents and its excellent teaching staff

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.



A close-up photograph of a person's hands typing on a laptop keyboard. The image is partially obscured by a teal diagonal graphic element that covers the top right and bottom right portions of the page.

“

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 Certificate in Website Security Systems guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in Website Security Systems** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery*.

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

Title: **Postgraduate Certificate in Website Security Systems**

Official N° of Hours: **150 h.**



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

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
online tra
ppment langu
classroom



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