Postgraduate Certificate
Information System Quality and Auditing

tech *technological university*

Postgraduate Certificate
Information System Quality and Auditing

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

Website: **www.techtitute.com/us/information-technology/postgraduate-certificate/information-system-quality-auditing**

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01
Introduction

Information Systems in companies must have some kind of quality control to verify their security and efficiency. The program in Information System Quality and Auditing aims to provide students with the most precise students the most accurate way to perform these tasks. This program will allow them to acquire a broad vision in this field in order to develop a quality work.
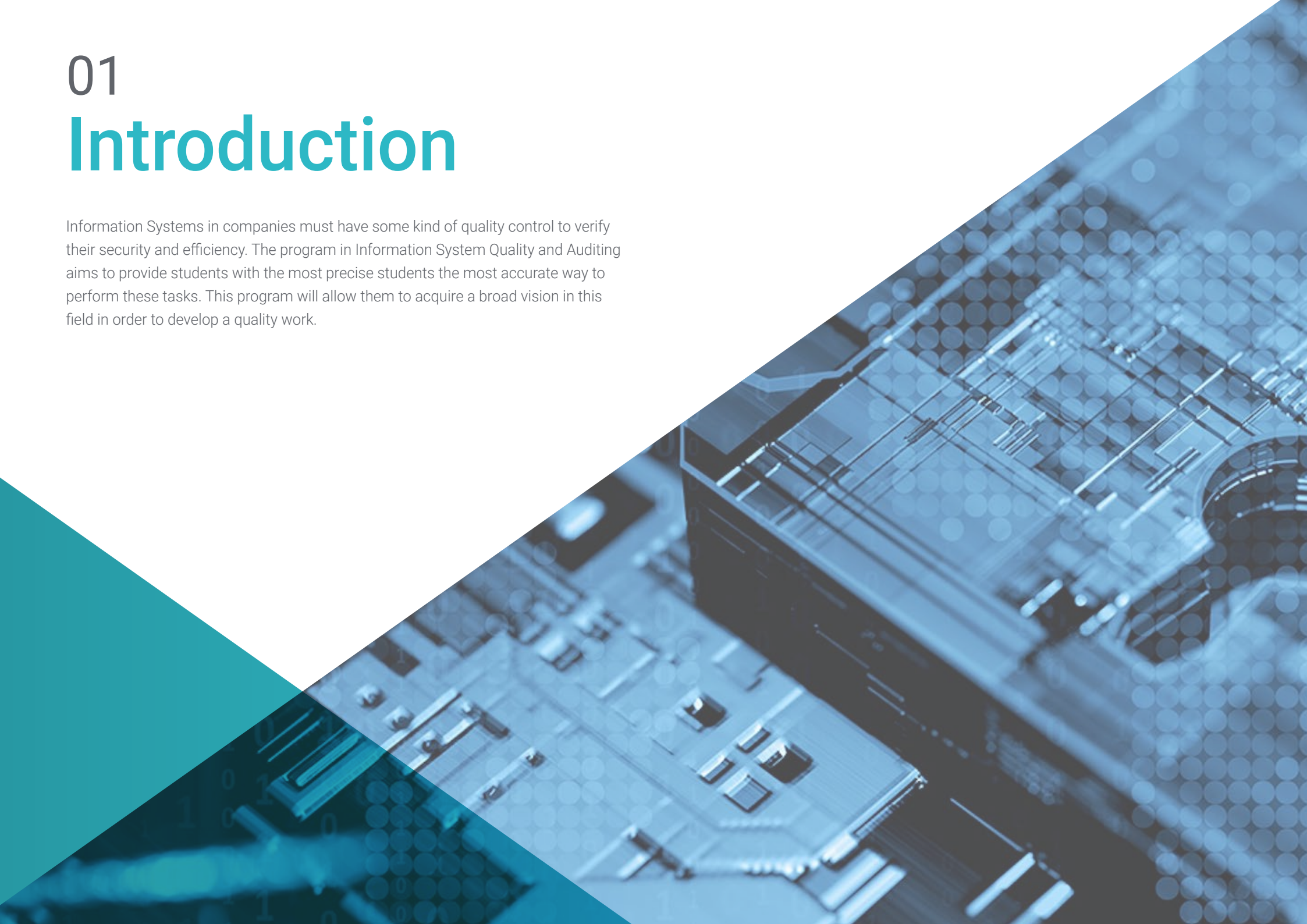
IT professionals must continue their specialization to adapt to new developments in this field"

The teaching team of this Postgraduate Certificate in Information System Quality and Auditing provides students with the topics of this program in order to offer them a specialization opportunity as complete as possible and always related to current events.

The program focuses on information security management systems, the planning of this management, the main mechanisms for the protection of information assets or the types of audits, among other important aspects for professionals in the field.

This program provides the student with specific tools and skills to successfully develop their professional activity in the wide environment of Information System Quality and Auditing. It works on key competencies such as the knowledge of the reality and daily practice in different IT areas and develops responsibility in the monitoring and supervision of their work, as well as specific skills within this field.

In addition, as this is a 100% online Postgraduate Certificate, the students are not conditioned by fixed schedules or the need to move to another physical location, but can access the contents at any time of the day. balancing their work or personal life with their educational life.

This **Postgraduate Certificate in Information System Quality and Auditing** contains the most complete and up-to-date program on the market. The most important features include:

- Case studies presented by experts in Computing Engineering
- 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
- Special emphasis on innovative methodologies in Information System Quality and Auditing
- 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

Do not miss the opportunity to take this Postgraduate Certificate in Information System Quality and Auditing. It's the perfect opportunity to advance your career"

"This Postgraduate Certificate is the best investment you can make when choosing a refresher program to expand your existing knowledge of Information System Quality and Auditing"

This program comes with the best educational material, providing you with a contextual approach that will facilitate your learning.

This 100% online Postgraduate Certificate will allow you to balance your studies with your professional work while increasing your knowledge in this field.
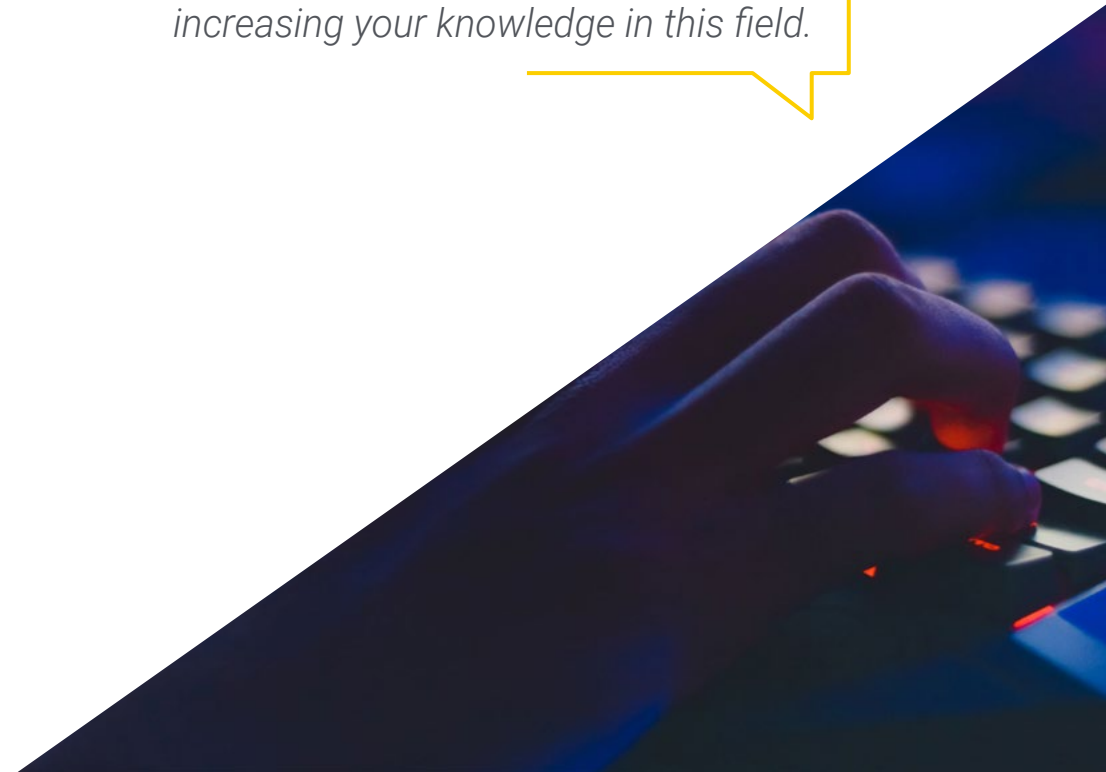
It includes in its teaching staff professionals belonging to the field of education, who bring to this program their work experience, in addition to recognized specialists belonging to reference societies and prestigious universities.

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 an immersive program designed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the psychologists must try to solve the different professional practice situations that arise throughout the program. For this purpose, professionals will be assisted by an innovative interactive video system developed by renowned and experienced Information System Quality and Auditing experts.

02
Objectives

This Postgraduate Certificate in Information System Quality and Auditing is designed to facilitate professional performance in the field to acquire knowledge of the main developments in this field of information systems.

This is the best option to learn about the latest advances in Information System Quality and Auditing"

General Objective

• Prepare scientifically and technologically, as well as to develop the professional practice of Information System Quality and Auditing , with a transversal and versatile approach adapted to the new technologies and innovations in this field

" *Take the step to get up to date on the latest developments in Information System Quality and Auditing"*

Specific Objectives

- Delve into software testing strategies and techniques, software quality factors and different metrics used
- Acquire the essential knowledge of IT security management systems
- Introduce the concepts of intellectual property in information management systems
- Prepare students in the creation of business continuity and disaster recovery plans
- Learn how to plan the management of the security and to handle the principal mechanisms for the protection of assets information
- Learn about the different types of audits and the process carried out during the IT auditing

03
Structure and Content

The structure of the contents has been designed by the best professionals in the field of Computer Engineering with extensive experience and recognized prestige in the profession.

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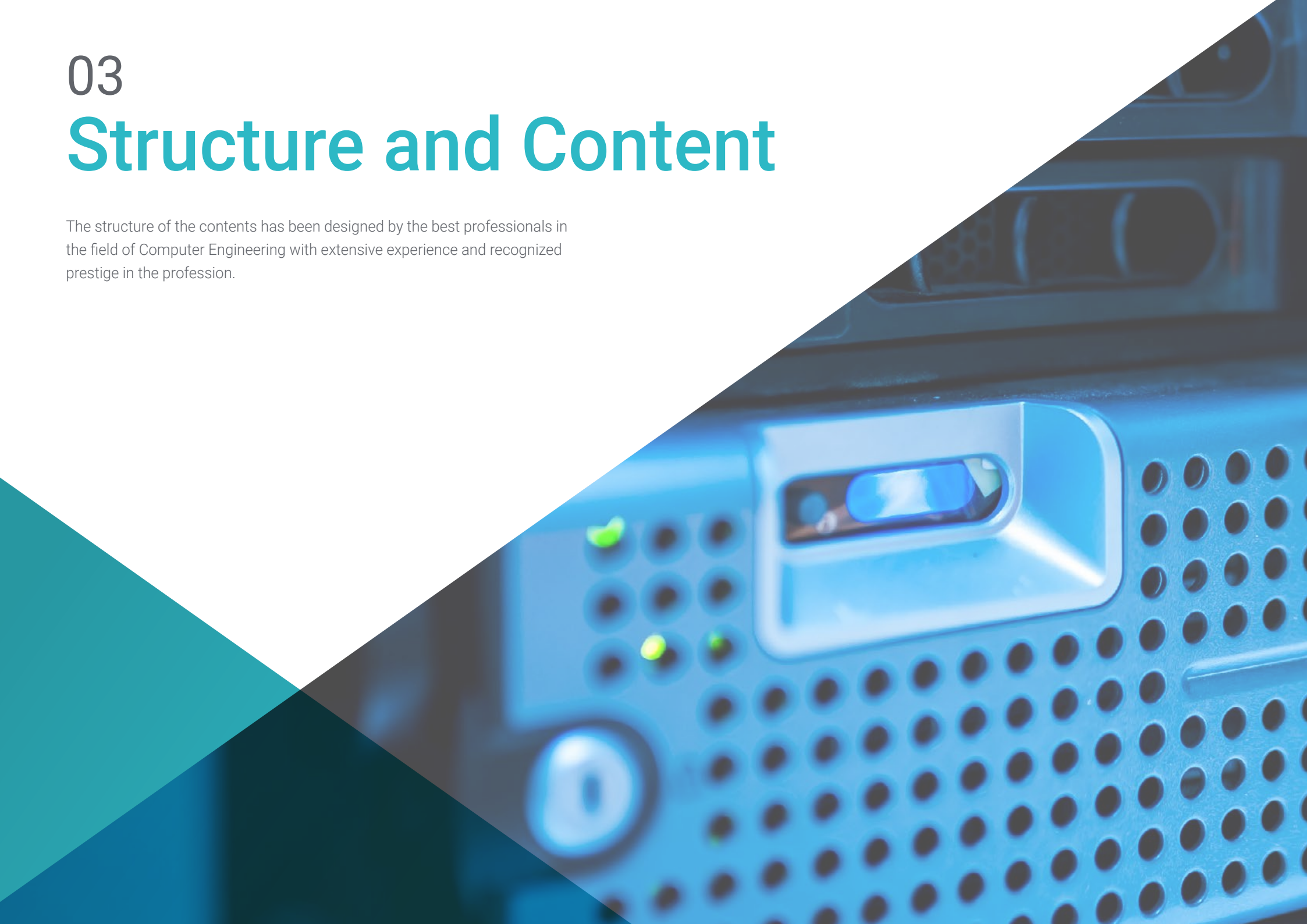
We have the most complete and up-to-date academic program in the market. We strive for excellence and for you to achieve it too"

Module 1. Information System Quality and Auditing

1.1.   Introduction to Information Security Management Systems

    1.1.1.   Fundamental Principles of ISMS

    1.1.2.   ISMS Golden Rules

    1.1.3.   Role of IT Audit in ISMSs

1.2.   Safety Management Planning

    1.2.1.   Concepts Related to Safety Management

    1.2.2.   Classification of Information: Objectives, Concepts and Roles

    1.2.3.   Implementation of Security Policies: Security Policies, Standards, and Procedures

    1.2.4.   Risk Management: Information Assets Risk Principles and Analysis

1.3.   Main Mechanisms for the Protection of Information Assets I

    1.3.1.   Summary of the Main Cryptographic Tools for the Protection of the CIA Triad

    1.3.2.   Consideration of Privacy, Anonymity and Adequate Management of User Traceability Requirements

1.4.   Main Mechanisms for the Protection of Information Assets II

    1.4.1.   Communications Security: Protocols, Devices and Security Architectures

    1.4.2.   Operating System Security

1.5.   ISMS Internal Controls

    1.5.1.   ISMS Controls Taxonomy: Administrative, Logical and Physical Controls

    1.5.2.   Classification of Controls According to How Threats Are Addressed: Controls for Threat Prevention, Detection and Correction

    1.5.3.   Implementation of Internal Control Systems in ISMSs

1.6.   Types of Audits

    1.6.1.   Difference between Audit and Internal Control

    1.6.2.   Internal vs. External Audit

    1.6.3.   Audit Classification according to the Objective and Type of Analysis

1.7.   Screenwriter and Screenplay: Subject Matter and Object Protected by Intellectual Property

    1.7.1.   Introduction to Penetration Testing and Forensic Analysis

    1.7.2.   Definition and Relevance of Fingerprinting and Footprinting Concepts

1.8.   Vulnerability Scanning and Network Traffic Monitoring

    1.8.1.   Tools for Vulnerability Analysis in Systems

    1.8.2.   Main Vulnerabilities in the Context of Web Applications

    1.8.3.   Analysis of Communications Protocols

This program will allow you to advance in your career comfortably"

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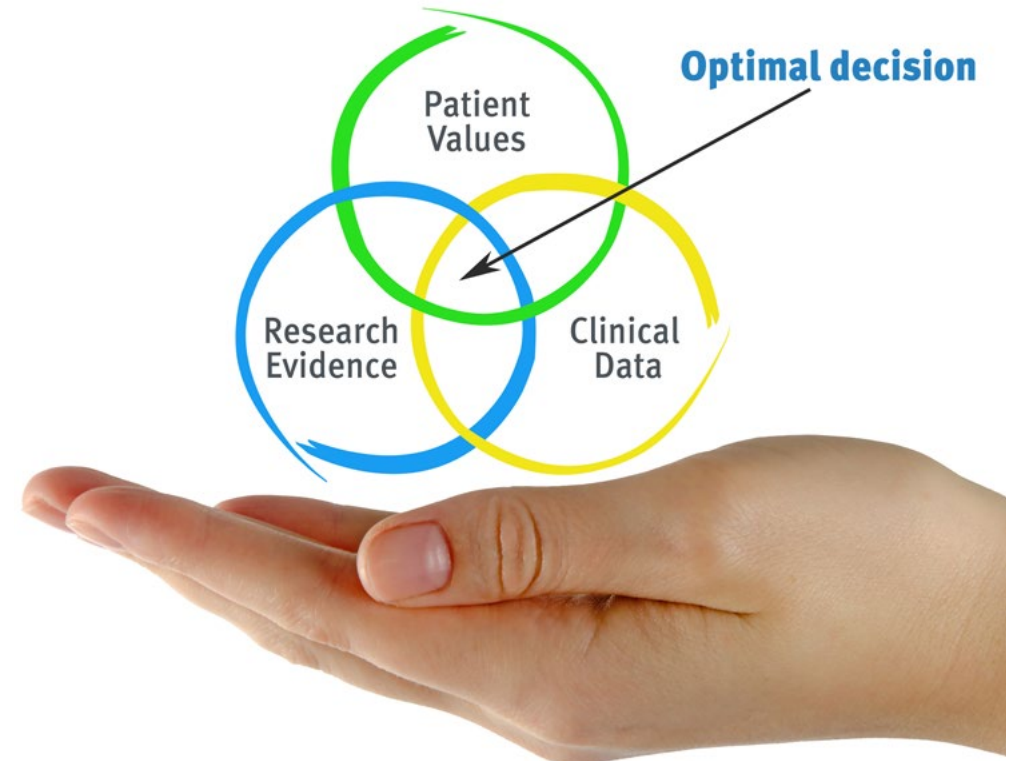
You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.

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.

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

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.

01 learning from evidence

02 relearning from evidence

03 testing

04 learning from an expert

05 neurocognitive context dependent learning

06 Von-Restorff effect

07 case based learning through storytelling

08 competencies testing (retesting)

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.

30%

10%

8%

20%

25%

4%

3%
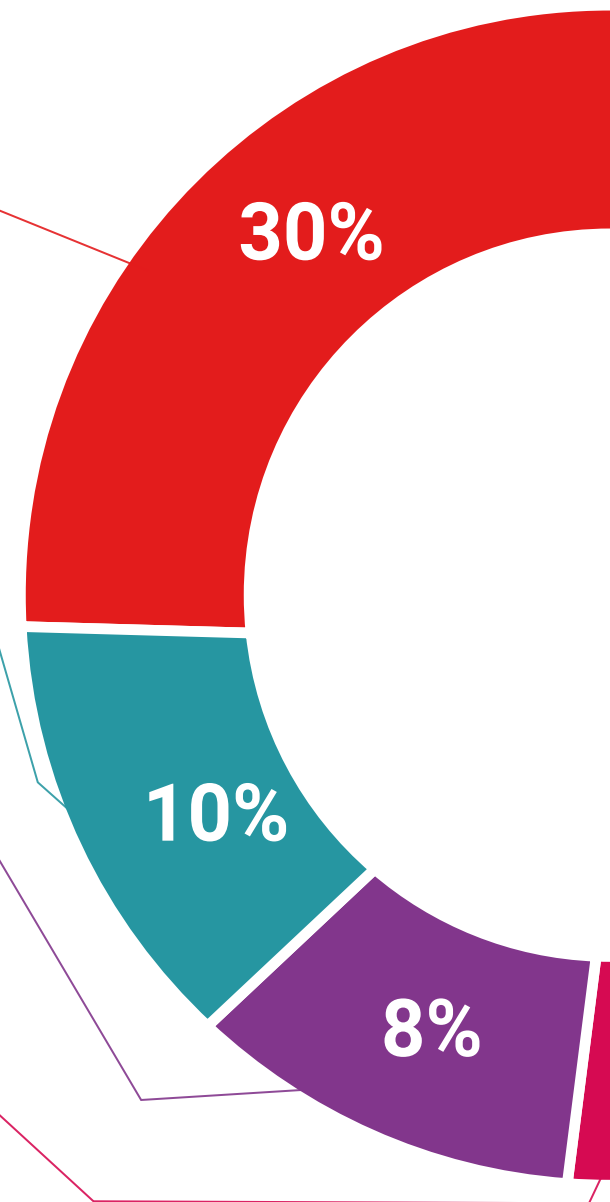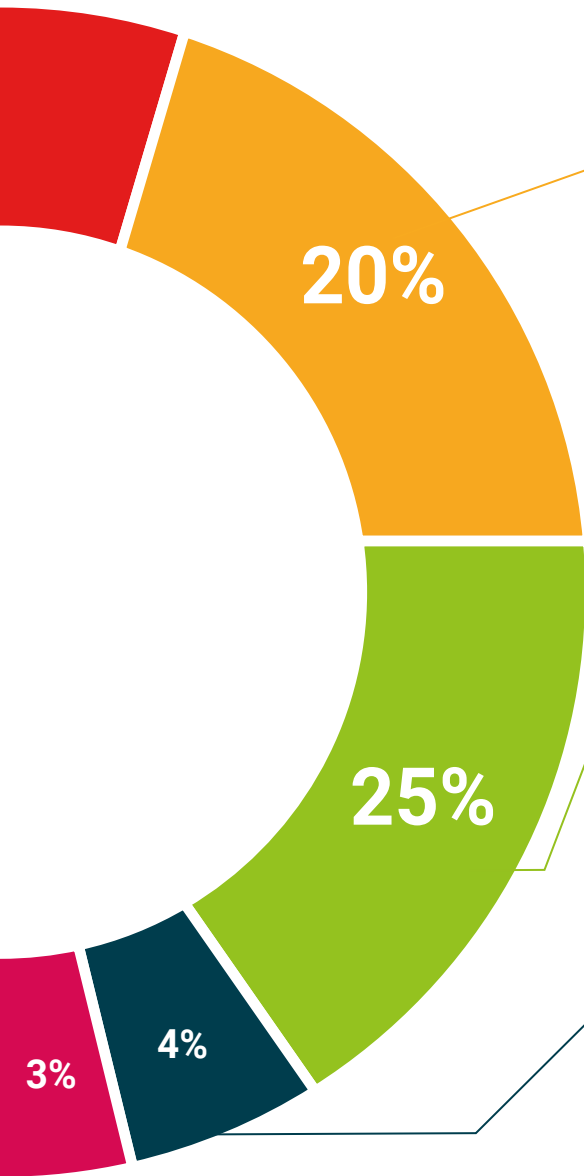
Case Studies

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.

05

Certificate

The Postgraduate Certificate in Information System Quality and Auditing 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 Postgraduate Certificate without having to travel or fill out laborious paperwork"

This **Postgraduate Certificate in Information System Quality and Auditing** 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 Information System Quality and Auditing**

Official Nº of Hours: **150 h.**

tech technological university

Awards the following

DIPLOMA

to

Mr./Ms. _____, with identification number _____.
For having passed and accredited the following program

POSTGRADUATE CERTIFICATE

in

Information System Quality and Auditing

This is a qualification awarded by this University, equivalent to 150 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

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

June 17, 2020

Tere Guevara Navarro
Dean

Unique TECH Code: AFWORD23S   techtitute.com/certificates

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

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