

# Postgraduate Diploma Corrective Cybersecurity and Forensic Expertise



## Postgraduate Diploma Corrective Cybersecurity and Forensic Expertise

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

Website: [www.techtute.com/us/information-technology/postgraduate-diploma/postgraduate-diploma-corrective-cybersecurity-forensic-expertise](http://www.techtute.com/us/information-technology/postgraduate-diploma/postgraduate-diploma-corrective-cybersecurity-forensic-expertise)

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# 01

# Introduction

In a world that changes and evolves every day, with technologies that appear and are adopted quickly without being mature, we have to be prepared to face many challenges and predict the impact they will have on society. This program allows the Computer Engineer to investigate a cybersecurity incident once it has occurred, providing them with the knowledge and mechanisms to obtain, analyze and report all their findings, since a forensic scientist finds a scenario, and decides, in a non-destructive way, to acquire the evidence, they need guidelines to relate the data obtained from different sources and reach irrefutable conclusions.





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*Acquire the ability to give the keys to a cybersecurity incident with the most up to date knowledge in forensic expertise in this area”*

In the IT environment there are several motivations that encourage the application of different Reverse Engineering Techniques in order to understand and know enough about a software, a communication protocol or an algorithm.

One of the best-known applications of reverse engineering is *malware* analysis which, through different techniques such as *sandboxing*, will provide an understanding and knowledge of the malicious software under study and, thereby, the development of software capable of detecting and counteracting it, as in the case of antivirus software that works on the basis of signatures.

Sometimes the vulnerability is not found in the source code, but is introduced by the compiler that generates the machine code. Knowledge in reverse engineering and, therefore, in how we obtain the machine code will allow us to detect such vulnerabilities.

It is necessary to know the different scenarios, understand the different technologies and be able to explain them in different languages depending on the target audience of the specific report. The number of different crimes that a forensic expert will face means that they need expertise, perspicacity and serenity to undertake this extremely important task, as the verdict of a trial may depend on their correct performance.

The professional in this sector needs to have a broad and peripheral vision in order to detect not only the benefits of these technologies, but also their possible detriments. This program prepares you to understand what is to come, how it may affect present professions, how to practice them and what may happen in the future, although sometimes uncertain.

**This Postgraduate Diploma in Corrective Cybersecurity and Forensic Expertise** contains the most complete and up-to-date educational program on the market.

The most important features include:

- ◆ Practical case studies presented by 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 in Advanced Practice Nursing
- ◆ 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



*Understands the fundamentals and how malware acts as a basis for creating highly effective coping pathways"*

“

*With a totally practice-focused approach, this Postgraduate Diploma will boost your skills to the level of a specialist”*

The program’s teaching staff includes professionals from sector who contribute their work experience to this training 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 specialization programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. This will be done with the help of an innovative system of interactive videos made by renowned experts.

*An apprenticeship that will allow you to intervene as a forensic expert in cybersecurity, in the legal area.*

*A high education process created to be affordable and flexible, with the most interesting methodology of online teaching.*



# 02 Objectives

This Postgraduate Diploma boosts students' capacity to intervene in this field, quickly and easily. With realistic and highly relevant objectives, this course of study is designed to progressively lead students to the acquisition of the theoretical and practical knowledge necessary to intervene with excellence and to develop transversal competencies that will allow them to face complex situations by developing appropriate and precise responses.

```
        logo_large" width="300">
    id="logo_small">
    Menu</a>
    </div>
    <script src="/javascript" src="web/js/menu.js"></script>
    </div>
    <!--start-da-slider----->
    <div id="da-slider" class="da-slider">
    <div class="da-slide">
    <h2>Mājas lapu izstrāde</h2>
    <p>Vairāk kā 5 gadu pieredze un 30 realizēti projekti</p>
    </div>
```



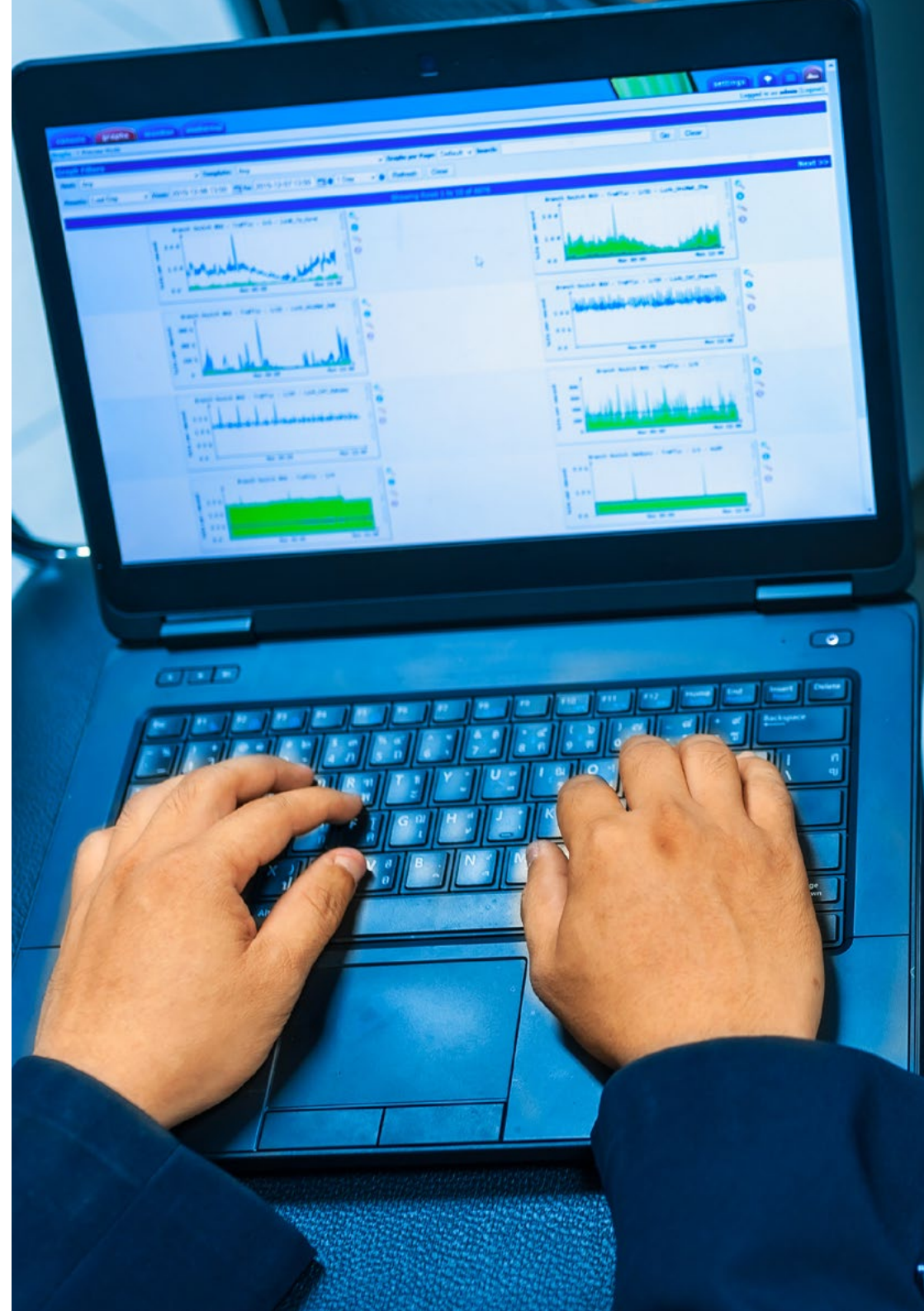
“

*An intensive program in Corrective Cybersecurity and Forensic Expertise that will allow you to expand your field of work in an area full of job possibilities"*



## General Objectives

- ◆ Analyze reverse engineering and the different techniques
- ◆ Examine different architectures and how they impact reverse engineering
- ◆ Determine under which conditions to use the different reverse engineering techniques
- ◆ Apply reverse engineering to the cybersecurity environment
- ◆ Collect all existing evidence and data to conduct a forensic report
- ◆ Analyze the data and correlate them appropriately
- ◆ Preservation of evidence for a forensic report
- ◆ Duly submit the forensic report
- ◆ Analyze the current and future state of computer security
- ◆ Examining the risks of new emerging technologies
- ◆ Compile the different technologies in relation to computer security





## Specific Objectives

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### Module 1. Inverse Engineering

- ◆ Analyze the phases of a compiler
- ◆ Examining x86 processor architecture and ARM processor architecture
- ◆ Determine the different types of analysis
- ◆ Apply *Sandboxing* in different environments
- ◆ Develop different *Malware* analysis techniques
- ◆ Establish tools oriented to Malware analysis

### Module 2. Forensic Analysis

- ◆ Identify the different elements that evidence a crime
- ◆ Generate specialized knowledge to obtain data from different media before they are lost
- ◆ Recovery of intentionally deleted data
- ◆ Analyze system Logs and records
- ◆ Determine how data is duplicated so as not to alter the originals
- ◆ Substantiate the evidence for consistency
- ◆ Generate a solid and seamless report
- ◆ Present conclusions in a coherent manner
- ◆ Establish how to defend the report before the competent authority
- ◆ Specify strategies for safe teleworking

### Module 3. Current and Future Challenges in Information Security

- ◆ Examine the use of cryptocurrencies, the impact on the economy and security
- ◆ Analyze the situation of users and the degree of digital illiteracy
- ◆ Determine the scope of use of blockchain
- ◆ Present alternatives to IPv4 in network addressing
- ◆ Develop strategies to educate the population in the correct use of technologies
- ◆ Generate specialized knowledge to meet new security challenges and prevent identity theft
- ◆ Specify strategies for safe teleworking

“Acquire the necessary competence to prepare and submit a complete and quality report to the competent authority”

03

# Course Management

The teachers who teach this program have been selected for their exceptional competence in this field. They combine technical and practical experience with teaching experience, offering students first-class support in achieving their goals. Through them, the program offers the most direct and immediate vision of the real characteristics of the intervention in this field, achieving a contextual vision of maximum interest.



“

*Expert cybersecurity teachers will accompany you in each phase of the study and will give you the most realistic view of this work"*

## Director Invitado Internacional

Dr. Frederic Lemieux is internationally recognized as an innovative expert and inspirational leader in the fields of Intelligence, National Security, Internal security, Cybersecurity and Disruptive Technologies. His constant dedication and relevant contributions in Research and Education position him as a key figure in the promotion of security and the understanding of today's emerging technologies. During his professional career, he has conceptualized and directed cutting-edge academic programs at various renowned institutions, such as the University of Montreal, George Washington University and Georgetown University.

Throughout his extensive background, he has published multiple books of great relevance, all related to criminal intelligence, policing, cyber threats and international security. He has also contributed significantly to the field of Cybersecurity with the publication of numerous articles in academic journals, which examine crime control during major disasters, counter-terrorism, intelligence agencies and police cooperation. In addition, he has been a panelist and keynote speaker at various national and international conferences, establishing himself as a reference in the academic and professional arena.

Dr. Lemieux has held editorial and evaluative roles in different academic, private and governmental organizations, reflecting his influence and commitment to excellence in his field of expertise. As such, his prestigious academic career has led him to serve as Professor of Practice and Faculty Director of the MPS programs in Applied Intelligence, Cybersecurity Risk Management, Technology Management and Information Technology Management at Georgetown University.



## Dr. Lemieux, Frederic

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- Researcher in Intelligence, Cybersecurity and Disruptive Technologies, Georgetown University
- Director of the Master's Degree in Information Technology Management at Georgetown University
- Director of the Master's Degree in Technology Management at Georgetown University
- Director of the Master's Degree in Cybersecurity Risk Management at Georgetown University
- Director of the Master's Degree in Applied Intelligence at Georgetown University
- Professor of Internship at Georgetown University
- PhD in Criminology from the School of Criminology, University of Montreal
- B.A. in Sociology, Minor Degree in Psychology, University of Laval
- Member of: New Program Roundtable Committee, Georgetown University

“

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

## Management



### Ms. Fernández Sapena, Sonia

- ◆ Computer Security and Ethical Hacking Trainer. Getafe National Reference Center for Informatics and Telecommunications. Madrid
- ◆ Certified E-Council instructor. Madrid
- ◆ Trainer in the following certifications: EXIN Ethical Hacking Foundation y 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)
- ◆ Colaboradora externa CSO/SSA (Chief Security Officer/Senior Security Architect). University of the Balearic Islands
- ◆ Computer Engineer. Alcalá de Henares University. Madrid
- ◆ Master in DevOps: Docker and Kubernetes. Cas Training. Madrid
- ◆ Microsoft Azure Security Technologies. E-Council. Madrid



## Professors

### Mr. Redondo, Jesús Serrano

- ♦ Junior FrontEnd Developer & Junior Cybersecurity Technician
- ♦ FrontEnd Developer at Telefónica, Madrid
- ♦ FrontEnd Developer. Best Pro Consulting SL, Madrid
- ♦ Telecommunications equipment and services installer. Zener Group, Castilla y León
- ♦ Telecommunications equipment and services installer. Lican Comunicaciones SL, Castilla y León
- ♦ Certificate in Computer Security. CFTIC Getafe, Madrid
- ♦ Senior Technician: Telecommunications and Computer Systems. IES Trinidad Arroyo, Palencia
- ♦ Senior Technician: MV and LV Electrotechnical Installations. IES Trinidad Arroyo, Palencia
- ♦ Training in reverse engineering, stenography, encryption. Incibe Hacker Academy (Incibe Talents)




*A stimulating journey of professional growth designed to keep you interested and motivated throughout the entire program"*

# 04

## Structure and Content

This Postgraduate Diploma is a complete analysis of each and every one of the fields of knowledge that the professional involved in cybersecurity must know in the field of corrective cybersecurity and forensic expertise. To this end, it has been structured with a view to the efficient acquisition of summative knowledge, which will favor the absorption of learning and consolidate what has been studied, providing students with the capacity to intervene as quickly as possible. A high intensity, high quality course created to educate the best in the industry.

A hand in a light purple shirt sleeve is pointing with a white pen at a computer monitor. The monitor displays a code editor with JavaScript code. The code includes a function call, a jQuery check, and a recursive loop. The background is a bright, slightly blurred office setting.

```
    , arg ) {  
    on( arg ) ) {  
    s.unique || !self.has( arg ) ) {  
    st.push( arg );  
  
    else if ( arg && arg.length && jQuery.type( arg ) !== "string" ) {  
  
        // Inspect recursively  
        for ( var i = 0; i < arg.len(); i++ ) {  
            arg += "loading var" + i - 3;  
            add( arg );  
        }  
    }  
}
```

“

*All the concepts of Corrective Cybersecurity and Forensic Expertise developed in a structured way in a study approach focused on efficiency”*

## Module 1. Inverse Engineering

- 1.1. Compilers
  - 1.1.1. Types of Codes
  - 1.1.2. Phases of a Compiler
  - 1.1.3. Table of Symbols
  - 1.1.4. Error Manager
  - 1.1.5. GCC Compiler
- 1.2. Types of Analysis in Compilers
  - 1.2.1. Lexical Analysis
    - 1.2.1.1. Terminology
    - 1.2.1.2. Lexical Components
    - 1.2.1.3. LEX Lexical Analyzer
  - 1.2.2. Parsing
    - 1.2.2.1. Context-free Grammars
    - 1.2.2.2. Types of Parsing
      - 1.2.2.2.1. Top-down Analysis
      - 1.2.2.2.2. Bottom-up Analysis
    - 1.2.2.3. Syntactic Trees and Derivations
    - 1.2.2.4. Types of Parsers
      - 1.2.2.4.1. LR Analyzers (Left to Right)
      - 1.2.2.4.2. LALR Analyzers
  - 1.2.3. Semantic Analysis
    - 1.2.3.1. Attribute Grammars
    - 1.2.3.2. S-attributes
    - 1.2.3.3. L-attributes
- 1.3. Data Structures in Assembler
  - 1.3.1. Variables:
  - 1.3.2. Arrays
  - 1.3.3. Pointers
  - 1.3.4. Structures
  - 1.3.5. Objects
- 1.4. Assembler Code Structures
  - 1.4.1. Selection Structures
    - 1.4.1.1. If, Else If, Else
    - 1.4.1.2. Switch
  - 1.4.2. Iteration Structures
    - 1.4.2.1. *For*
    - 1.4.2.2. *While*
    - 1.4.2.3. Use of *Break*
  - 1.4.3. Functions
- 1.5. X86 Architecture Hardware
  - 1.5.1. x86 Processor Architecture
  - 1.5.2. x86 Data Structures
  - 1.5.3. x86 Code Structures
- 1.6. ARM Architecture Hardware
  - 1.6.1. ARM Processor Architecture
  - 1.6.2. ARM Data Structures
  - 1.6.3. ARM Code Structures
- 1.7. Static Code Analysis
  - 1.7.1. Disassemblers
  - 1.7.2. IDA
  - 1.7.3. Code Rebuilders
- 1.8. Dynamic Code Analysis
  - 1.8.1. Behavioral Analysis
    - 1.8.1.1. Communication
    - 1.8.1.2. Monitoring
  - 1.8.2. Linux Code Debuggers
  - 1.8.3. Windows Code Debuggers

```
echo "Photo gallery";}
elseif ($_COOKIE['lang'] == 'rus') {
echo "Фотогалерея";

echo "Foto galerija";
-->
ss="<?if($_GET[type]==1||!$_GET[type])e
ref="foto-galerija.php?type=1&text_marg
<div id="left_sidebar">
<div id="left_ico"> </div>
<p <?if($_COOKIE['lang'] == 'rus')e
IE['lang'] == 'eng'){
"Wood-frame houses";
_COOKIE['lang'] == 'rus'){
"Деревянные каркасные дома";
"Koka karkasa mājas";
```

- 1.9. Sandbox
  - 1.9.1. Sandbox Architecture
  - 1.9.2. Sandbox Evasion
  - 1.9.3. Detection Techniques
  - 1.9.4. Avoidance Techniques
  - 1.9.5. Countermeasures
  - 1.9.6. Sandbox and Linux
  - 1.9.7. Sandbox and Windows
  - 1.9.8. Sandbox on MacOS
  - 1.9.9. Sandbox on android
- 1.10. Malware Analysis
  - 1.10.1. Malware Analysis Methods
  - 1.10.2. Malware Obfuscation Techniques
    - 1.10.2.1. Executable Obfuscation
    - 1.10.2.2. Restriction of Execution Environments
  - 1.10.3. Malware Analysis Tools

## Module 2. Forensic Analysis

- 2.1. Data Acquisition and Duplication
  - 2.1.1. Volatile Data Acquisition
    - 2.1.1.1. System Information
    - 2.1.1.2. Network Information
    - 2.1.1.3. Volatility Order
  - 2.1.2. Static Data Acquisition
    - 2.1.2.1. Creating a Duplicate Image
    - 2.1.2.2. Preparation of a Chain of Custody Document
  - 2.1.3. Methods for Validation of Acquired Data
    - 2.1.3.1. Methods for Linux
    - 2.1.3.2. Methods for Windows

- 2.2. Evaluation and Defeat of Antiforensic Techniques
  - 2.2.1. Objectives of Antiforensic Techniques
  - 2.2.2. Data Deletion
    - 2.2.2.1. Deletion of Data and Files
    - 2.2.2.2. File Recovery
    - 2.2.2.3. Recovery of Deleted Partitions
  - 2.2.3. Password Protection
  - 2.2.4. Steganography
  - 2.2.5. Secure Device Wiping
  - 2.2.6. Encryption
- 2.3. Operating System Forensics
  - 2.3.1. Windows Forensics
  - 2.3.2. Linux Forensics
  - 2.3.3. Mac Forensics
- 2.4. Network Forensics
  - 2.4.1. Log Analysis
  - 2.4.2. Data Correlation
  - 2.4.3. Network Research
  - 2.4.4. Steps to Follow in Network Forensic Analysis
- 2.5. Web Forensics
  - 2.5.1. Investigation of Web Attacks
  - 2.5.2. Attack Detection
  - 2.5.3. IP Address Location
- 2.6. Forensic Database Analysis
  - 2.6.1. Forensic Analysis in MSSQL
  - 2.6.2. MySQL Forensic Analysis
  - 2.6.3. PostgreSQL Forensic Analysis
  - 2.6.4. Forensic Analysis in MongoDB
- 2.7. Cloud Forensics
  - 2.7.1. Types of Crimes in the Cloud
    - 2.7.1.1. Cloud as a Subject
    - 2.7.1.2. Cloud as an Object
    - 2.7.1.3. Cloud as a Tool

- 2.7.2. Challenges of Cloud Forensics
- 2.7.3. Research on Cloud Storage Services
- 2.7.4. Forensic Analysis Tools for Cloud.
- 2.8. Investigation of Email Crimes
  - 2.8.1. Mailing Systems
    - 2.8.1.1. Mail Clients
    - 2.8.1.2. Mail Server
    - 2.8.1.3. SMTP Server
    - 2.8.1.4. POP3 Server
    - 2.8.1.5. IMAP4 Server
  - 2.8.2. Mailing Crimes
  - 2.8.3. Mail Message
    - 2.8.3.1. Standard Headers
    - 2.8.3.2. Extended Headers
  - 2.8.4. Steps for the Investigation of these Crimes
  - 2.8.5. E-mail Forensic Tools
- 2.9. Mobile Forensic Analysis
  - 2.9.1. Cellular Networks
    - 2.9.1.1. Types of Networks
    - 2.9.1.2. CDR Contents
  - 2.9.2. *Subscriber Identity Module (SIM)*
  - 2.9.3. Logical Acquisition
  - 2.9.4. Physical Acquisition
  - 2.9.5. File System Acquisition
- 2.10. Forensic Report Writing and Reporting
  - 2.10.1. Important Aspects of a Forensic Report
  - 2.10.2. Classification and Types of Reports
  - 2.10.3. Guide to Writing a Report
  - 2.10.4. Presentation of the Report
    - 2.10.4.1. Prior Preparation for Testifying
    - 2.10.4.2. Deposition
    - 2.10.4.3. Dealing with the Media

**Module 3. Current and Future Challenges in Information Security**

- 3.1. *Blockchain* Technology
  - 3.1.2. Scope of Application
  - 3.1.3. Confidentiality Guarantee
  - 3.1.4. Non-repudiation Guarantee
- 3.2. Digital Money
  - 3.2.1. Bitcoins
  - 3.2.2. Cryptocurrencies
  - 3.2.3. Cryptocurrency Mining
  - 3.2.4. Pyramid Schemes
  - 3.2.5. Other Potential Crimes and Problems
- 3.3. *Deepfake*
  - 3.3.2. Media Impact
  - 3.3.3. Dangers to Society
  - 3.3.4. Detection Mechanisms
- 3.4. The Future of Artificial Intelligence
  - 3.4.1. Artificial Intelligence and Cognitive Computing
  - 3.4.2. Uses to Simplify Customer Service
- 3.5. Digital Privacy
  - 3.5.1. Value of Data in the Network
  - 3.5.2. Use of Data in the Network
  - 3.5.3. Privacy and Digital Identity Management
- 3.6. Cyberconflicts, Cybercriminals and Cyberattacks
  - 3.6.1. The Impact of Cybersecurity on International Conflicts
  - 3.6.2. Consequences of Cyber-attacks on the General Population.
  - 3.6.3. Types of Cybercriminals. Protective Measures
- 3.7. Telework
  - 3.7.1. Telework Revolution During and After COVID-19
  - 3.7.2. Access Bottlenecks
  - 3.7.3. Variation of the Attacking Surface
  - 3.7.4. Workers' Needs
- 3.8. Emerging *Wireless* Technologies
  - 3.8.1. WPA3
  - 3.8.2. 5G
  - 3.8.3. Millimeter Waves
  - 3.8.4. Trend in "*Get Smart*" instead of "*Get more*"
- 3.9. Future Addressing in Networks
  - 3.9.1. Current Problems with IP Addressing
  - 3.9.2. Ipv6
  - 3.9.2. Ipv4+
  - 3.9.3. Advantages of Ipv4+ Over Ipv4
  - 3.9.4. Advantages of IPv6 Over IPv4
- 3.10. The Challenge of Raising Awareness of Early and Continuing Education in the Population
  - 3.10.1. Current Government Strategies
  - 3.10.2. Resistance of the Population to Learning
  - 3.10.3. Training Plans to be Adopted by Companies



*A high-impact syllabus for your competences that will allow you to intervene efficiently in Corrective Cybersecurity and Forensic Expertise with state-of-the-art resources"*

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.*



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

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 Corrective Cybersecurity and Forensic Expertise guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma 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 Diploma in Corrective Cybersecurity and Forensic Expertise** 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 Diploma**, issued by **TECH Technological University** via tracked delivery\*.

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

Title: **Postgraduate Diploma in Corrective Cybersecurity and Forensic Expertise**

Official N° of hours: **450 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.

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



## Postgraduate Diploma Corrective Cybersecurity and Forensic Expertise

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

# Postgraduate Diploma Corrective Cybersecurity and Forensic Expertise