



Postgraduate Diploma Information Security Systems

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

» Target Group: Graduates and professionals with demonstrable experience in technological areas

Website: www.techtitute.com/pk/school-of-business/postgraduate-diploma/postgraduate-diploma-information-security-systems

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01 **Welcome**

In recent years, cyber-attacks on the databases and computer systems of businesses have multiplied, which has led to a greater demand for experts in computer security, specifically in the protection of the information contained in servers and databases that may be especially sensitive. TECH, aware of this problem, has developed a complete program that not only instructs its students in the latest computer security methods, but also provides them with leadership and management tools with which to lead their own information security teams and consequently qualify for higher paying and more prestigious positions.









tech 08 | Why Study at TECH?

At TECH Technological University



Innovation

The university offers an online learning model that combines the latest educational technology with the most rigorous teaching methods. A unique method with the highest international recognition that will provide students with the keys to develop in a rapidly-evolving world, where innovation must be every entrepreneur's focus.

"Microsoft Europe Success Story", for integrating the innovative, interactive multi-video system.



The Highest Standards

Admissions criteria at TECH are not economic. Students don't need to make a large investment to study at this university. However, in order to obtain a qualification from TECH, the student's intelligence and ability will be tested to their limits. The institution's academic standards are exceptionally high...

95%

of TECH students successfully complete their studies



Networking

Professionals from countries all over the world attend TECH, allowing students to establish a large network of contacts that may prove useful to them in the future.

100,000+

200+

executives trained each year

different nationalities



Empowerment

Students will grow hand in hand with the best companies and highly regarded and influential professionals. TECH has developed strategic partnerships and a valuable network of contacts with major economic players in 7 continents.

500+

collaborative agreements with leading companies



Talent

This program is a unique initiative to allow students to showcase their talent in the business world. An opportunity that will allow them to voice their concerns and share their business vision.

After completing this program, TECH helps students show the world their talent.



Multicultural Context

While studying at TECH, students will enjoy a unique experience. Study in a multicultural context. In a program with a global vision, through which students can learn about the operating methods in different parts of the world, and gather the latest information that best adapts to their business idea.

TECH students represent more than 200 different nationalities.



Learn with the best

In the classroom, TECH's teaching staff discuss how they have achieved success in their companies, working in a real, lively, and dynamic context. Teachers who are fully committed to offering a quality specialization that will allow students to advance in their career and stand out in the business world.

Teachers representing 20 different nationalities.



At TECH, you will have access to the most rigorous and up-to-date case studies in the academic community"

Why Study at TECH? | 09 tech

TECH strives for excellence and, to this end, boasts a series of characteristics that make this university unique:



Analysis

TECH explores the student's critical side, their ability to question things, their problem-solving skills, as well as their interpersonal skills.



Academic Excellence

TECH offers students the best online learning methodology. The university combines the Relearning method (a postgraduate learning methodology with the highest international rating) with the Case Study. A complex balance between tradition and state-of-the-art, within the context of the most demanding academic itinerary.



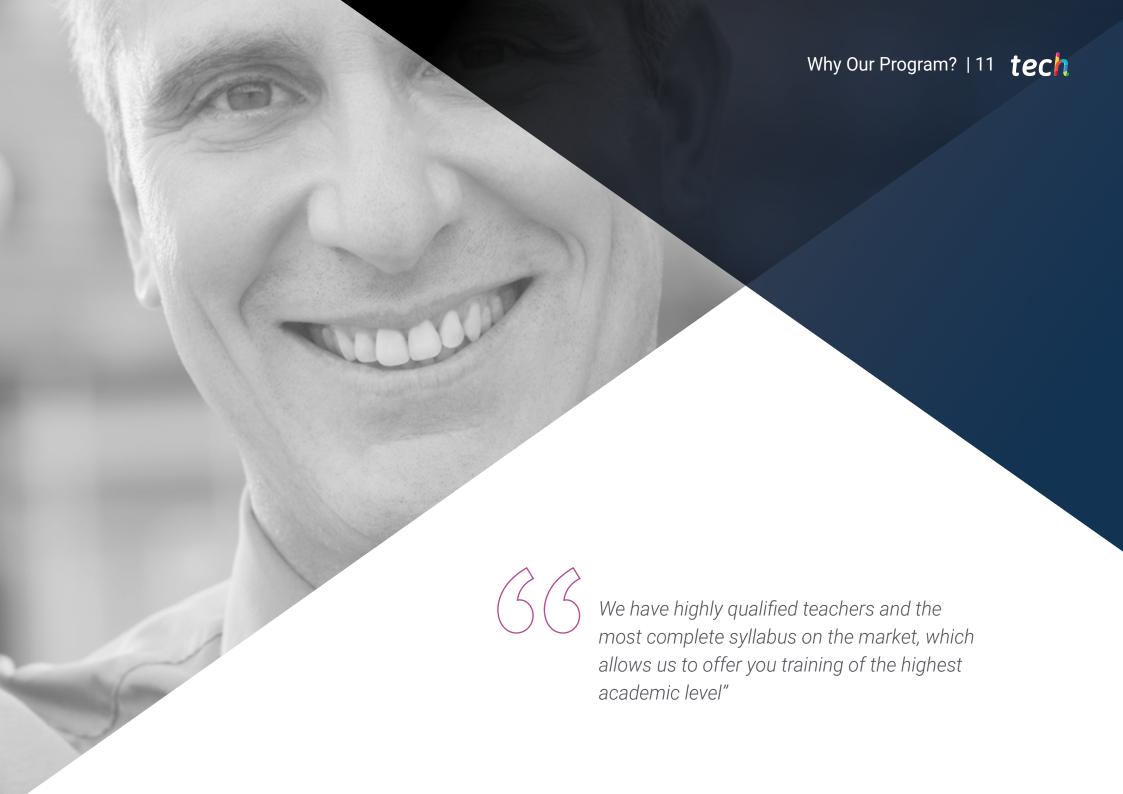
Economy of Scale

TECH is the world's largest online university. It currently boasts a portfolio of more than 10,000 university postgraduate programs. And in today's new economy, **volume + technology = a ground-breaking price**. This way, TECH ensures that studying is not as expensive for students as it would be at another university.



Studying this TECH program means increasing the chances of achieving professional success in senior business management.

It is a challenge that demands effort and dedication, but it opens the door to a promising future. Students will learn from the best teaching staff and with the most flexible and innovative educational methodology.



tech 12 | Why Our Program?

This program will provide students with a multitude of professional and personal advantages, particularly the following:



A significant career boost

By studying at TECH, students will be able to take control of their future and develop their full potential. By completing this program, students will acquire the skills required to make a positive change in their career in a short period of time.

70% of participants achieve positive career development in less than 2 years.



Develop a strategic and global vision of companies

TECH offers an in-depth overview of general management to understand how each decision affects each of the company's different functional areas.

Our global vision of companies will improve your strategic vision.



Consolidate the student's senior management skills

Studying at TECH means opening the doors to a wide range of professional opportunities for students to position themselves as senior executives, with a broad vision of the international environment.

You will work on more than 100 real senior management cases.



Take on new responsibilities

The program will cover the latest trends, advances and strategies, so that students can carry out their professional work in a changing environment.

45% of graduates are promoted internally.



Access to a powerful network of contacts

TECH connects its students to maximize opportunities. Students with the same concerns and desire to grow. Therefore, partnerships, customers or suppliers can be shared.

You will find a network of contacts that will be instrumental for professional development.



Thoroughly develop business projects

Students will acquire a deep strategic vision that will help them develop their own project, taking into account the different areas in companies.

20% of our students develop their own business idea.



Improve soft skills and management skills

TECH helps students apply and develop the knowledge they have acquired, while improving their interpersonal skills in order to become leaders who make a difference.

Improve your communication and leadership skills and enhance your career.



Be part of an exclusive community

Students will be part of a community of elite executives, large companies, renowned institutions, and qualified professors from the most prestigious universities in the world: the TECH Technological University community.

We give you the opportunity to train with a team of world renowned teachers.





tech 16 | Objectives

TECH makes the goals of their students their own goals too. Working together to achieve them.

The **Postgraduate Diploma in Information Security Systems** qualifies students to:



Apply the ethical, legislative and deontological framework for ICT professionals and ICT management



Describe protocols of action at corporate level in order to preserve information security



Define security preservation strategies at the corporate level









tech 20 | Structure and Content

Syllabus

This program contains everything the student needs to specialize in the main information security systems as well as in data science, Big Data and strategic planning of IT projects.

This unique and varied set of skills is designed to strengthen the student's candidacy for specific management positions within any type of industry that requires security that is adapted to its databases and individuals with exceptional leadership skills for its teams.

Thanks to the practical teaching, based on real cases proposed by the teaching staff, the student will learn to apply all the knowledge acquired during the program in a contextual way. Therefore, the student begins to improve their own work methodology on security issues even before completing the program.

During the 250 hours of this

Postgraduate Diploma, the student
will be immersed in real IT security
management situations as well as in
the planning of high-level IT projects,
obtaining a complete and distinguished
education.

This Postgraduate Diploma takes place over 6 months and is divided into 3 modules:

Module 1 Strategic Planning and IT Project Management

Module 2 Information Security Systems

Module 3 Data Science and Big Data



Where, When and How is it Taught?

TECH offers the possibility of developing this Postgraduate Diploma in Information Security Systems completely online. Over the course of 6 months, you will be able to access all the contents of this program at any time, allowing you to self-manage your study time.

A unique, key, and decisive educational experience to boost your professional development and make the definitive leap in your career

tech 22 | Structure and Content

2.5.2. Information Security Management Standards 2.6.3. Intellectual Property 2.5.3. Stages of Implementation of an SMSI

Mod	lule 1. Strategic Planning and IT Project	t Mana	gement				
1.1. 1.1.1. 1.1.2. 1.1.3.	Phases of the Plan Conceptual Vision		Understanding the Business Strategy Information Needs Business Process Mapping Business Aspirations or Priorities	1.3.3.	Analysis of Current IS/IT Resource Level and Expenditure/Investment Level Analysis Analysis of Perceived Quality Application and Infrastructure Analysis Analysis of the Environment and Competitors	1.4.1. 1.4.2. 1.4.3.	Strategy Formulation Aspirations and Strategic Directions of the Plan The Target IS/IT Model Strategic Initiatives Implications of the Plan
1.5. 1.5.1. 1.5.2.	Implementation Plan Implementation Approach Project Plan		Information Systems Projects IT Project Planning Project Follow-Up and Closure Project Management Strategies	1.7.1. 1.7.2.	Management of Technological Resources Technological Offer Time and Cost Management Agile Project Management and Productivity	1.8.2. 1.8.3.	Lean IT Lean IT and Lean Thinking The Basic Principles of Lean Management Improvement and Problem-Solving Groups Maintenance and Quality Management Forms
Mod	lule 2. Information Security Systems						
2.1. 2.1.1. 2.1.2. 2.1.3.	Measures to Ensure Computer System Security	2.2.1. 2.2.2. 2.2.3. 2.2.4.	Social Engineering	2.3.2.	Ethical Hacking Legal Considerations Vulnerability Scanning Useful Tools	2.4.1. 2.4.2.	Design and Management of Secure Networks and Risk Management Server Operating Systems Network Deployment IT Governance, Risk Management and Regulatory Compliance
2.5. 2.5.1.	Implementation of an ISMS According to iso 27000 Standards Information Security Management Systems and Benefits	2.6.1.	Industrial and Intellectual Property in the Technological Field Industrial Property Trademarks and Domain Names		Recruitment and the ICT Sector Contracting Management and Legal Aspects Main Contractual Figures Related to the IT Sector	2.8.1.	Data Protection, Privacy and Confidentiality The Data Protection Regime in Spain Labor Relations, Privacy and the Right to

Privacy
2.8.3. Main Fundamental Rights Related to the IT

Environment

Mod	Module 3. Data Science and Big Data									
3.1.	Data Science and Big Data	3.2.	Data Hacking Languages	3.3.	Statistics	3.4.	Machine Learning			
3.1.1.	Impact of Big Data and Data Science on Business Strategy		SQL Databases Introduction to Python		Introduction to Statistics Linear and Logistic Regression		Model Selection and Regularization Random Trees and Forests			
	Introduction to Command Line Data Science Problems and Solutions	3.2.3.	Programming in R	3.3.3.	PCA and Clustering	3.4.3.	Processing Natural Language			
3.5.	Big Data	3.6.	Data Science Success Stories	3.7.	Hybrid Architectures in Big Data	3.8	Big Data in the Cloud			
					rijana / monitootaroo in Big Bata	0.0.	big bata in the oloug			
	Hadoop Spark	3.6.1.	Customer Segmentation Using the RFM Model	3.7.1.	Lambda Architecture Kappa Architecture	3.8.1.	AWS: Kinesis AWS: DynamosDB			



This is the opportunity you were waiting for to specialize in a booming IT niche and, in addition, consolidate your leadership and project management skills"



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.



tech 26 | Methodology

TECH Business School uses the 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.





This program prepares you to face business challenges in uncertain environments and achieve business success.



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

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch to present executives with challenges and business decisions at the highest level, whether at the national or international level. 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 business reality is taken into account.



You will learn, through collaborative activities and real cases, how to solve complex situations in real business environments"

The case method has been the most widely used learning system among the world's leading business 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 we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They must integrate all their knowledge, research, argue and defend their ideas and decisions.

tech 28 | Methodology

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.

Our online system will allow you to organize your time and learning pace, adapting it to your schedule. You will be able to access the contents from any device with an internet connection.

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 online business school is the only one in the world licensed to incorporate 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.



Methodology | 29 **tech**

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. With this methodology we have 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, markets, and financial 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 specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to 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.



Management Skills Exercises

They will carry out activities to develop specific executive competencies in each thematic area. Practices and dynamics to acquire and develop the skills and abilities that a high-level manager needs to develop in the context of the globalization we live in.



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.





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 senior management 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

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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.

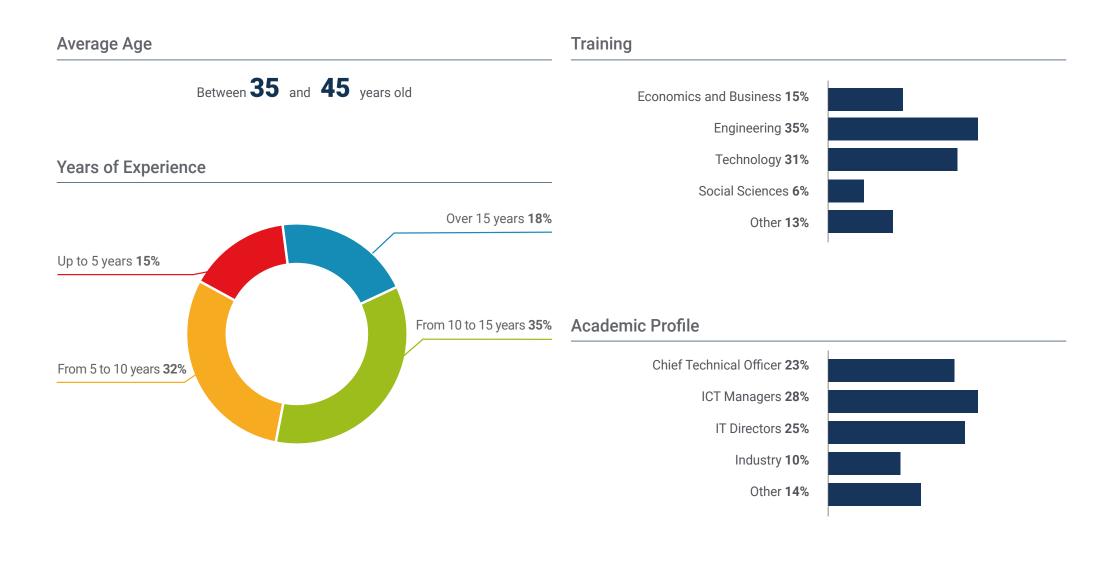


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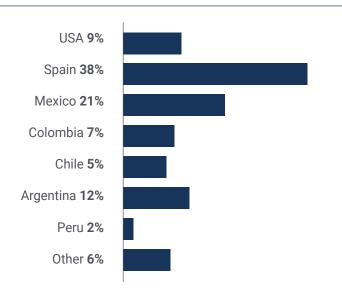




tech 34 | Our Students' Profiles



Geographical Distribution





Ana Rubio

Chief Information Officer

"Thanks to this TECH specialization I was able to improve my position within the internal work team, taking charge of more important projects, which ended up generating greater confidence in the corporate organization chart and a promotion to the position of head of security"





International Guest Director

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

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

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



D. Gauthier, Rick

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



tech 40 | Course Management

Management



Mr. Santana, Gustavo

- Engineer General Manager of Multiconversión Roi Agency
- Consulting and implementation of digital strategies aimed at profitability







tech 44 | Impact on Your Career

Are you ready to take the leap? Excellent professional development awaits you

TECH Technological University's Postgraduate Diploma in Information Security Systems prepares its students for the main challenges, both in terms of security and leadership, that they will have to face at the end of the program. The work they have to do is demanding and TECH makes sure that they acquire the best possible competencies and skills in their field, making them reputable professionals.

At TECH we are committed to quality specialization so that our students achieve professional success, and this Postgraduate Diploma is an example of this

This program will give you the necessary tools to develop professionally in IT management and leadership

When the change occurs



Type of change



Salary increase

This program represents a salary increase of more than 25,22% for our students.

\$77,000

A salary increase of

25.22%

Salary after \$110,000





tech 48 | Benefits for Your Company

Developing and retaining talent in companies is the best long-term investment.



Intellectual Capital and Talent Growth

Bring new concepts, strategies and perspectives to the company that can bring about relevant changes in the organization.



Retaining High-Potential Executives to Avoid Talent drain

This program strengthens the link between the company and the manager and opens new avenues for professional growth within the company.



Building Agents of Change

You will be able to make decisions in times of uncertainty and crisis, helping the organization overcome obstacles.



Increased International Expansion Possibilities

Thanks to this program, the company will be in contact with the main markets of the world economy.





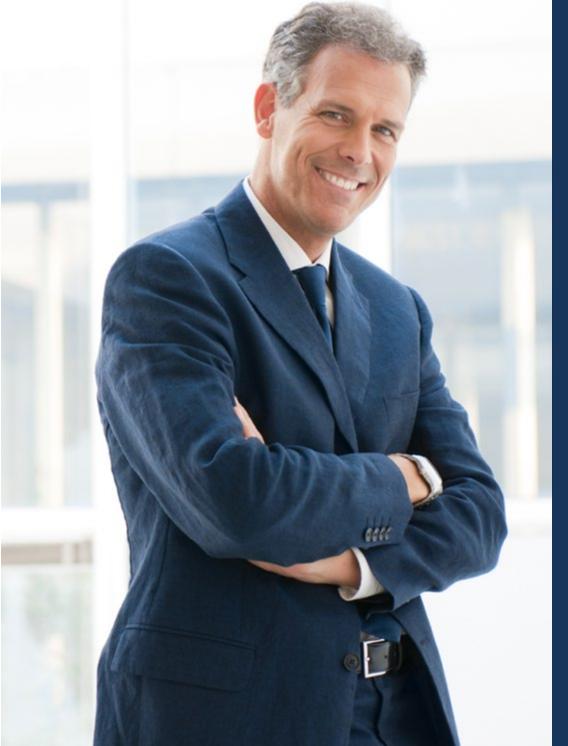
Project Development

You will be able to work on a current project or develop new projects in the field of R&D or Business Development within the company.



Increased Competitiveness

This program will equip our students with the skills to take on new challenges and drive the organization forward.







tech 52 | Certificate

This **Postgraduate Diploma in Information 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 Diploma** issued by **TECH Technological University** via tracked delivery*.

The certificate 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 Information Security Systems**Official No of hours: **250 h.**



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



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