

# Postgraduate Certificate

## IT Project Strategic Monitoring and Control





## Postgraduate Certificate IT Project Strategic Monitoring and Control

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

Website: [www.techtute.com/us/school-of-business/postgraduate-certificate/it-project-strategic-monitoring-control](http://www.techtute.com/us/school-of-business/postgraduate-certificate/it-project-strategic-monitoring-control)

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# 01 Welcome

Faulty data analysis can lead to poor strategic and business decisions in IT projects, making proper use of analytical tools and technologies essential. This responsibility, which also involves prestigious and highly paid positions, relies on the project manager's knowledge of data analysis and interpretation. This program enables students to improve their professional approach by learning about data life cycles, from onset to creating a valuable asset for the company.



Postgraduate Certificate in IT Project Strategic Monitoring and Control.  
TECH Technological University





“

*By understanding how best to process and analyze data, you will add value to the company that will establish you as a dynamic leader who is more visible than others in your field”*

02

# Why Study at TECH?

TECH is the world's largest 100% online business school. It is an elite business school, with a model based on the highest academic standards. A world-class centre for intensive managerial skills training.



“

*TECH is a university at the forefront of technology, and puts all its resources at the student's disposal to help them achieve entrepreneurial success"*

## 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+**  
executives trained each year

**200+**  
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.



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



### Analysis

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



### Academic Excellence

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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

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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 groundbreaking price**. This way, TECH ensures that studying is not as expensive for students as it would be at another university.



### 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"*

03

# Why Our Program?

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.





“

*We have highly qualified teachers and the most complete syllabus on the market, which allows us to offer you training of the highest academic level"*

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

**01**

### 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.*

**02**

### 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.*

**03**

### 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.*

**04**

### 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.*

05

### 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.*

06

### 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.*

07

### 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.*

08

### 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.*

# 04 Objectives

The objective of this Postgraduate Certificate is to provide students with the tools and knowledge required to correctly manage and monitor data in the context of IT projects. For this reason, the different techniques and contexts of information analysis, the types of existing data, their storage and effective management, as well as the different solutions based on business intelligence in applying all the methodology learned are studied.



“

*The Strategic Control of IT Projects is one of the fields that requires greater specialization and knowledge, which is why it is highly valued in the industry. Do not miss the opportunity to take a quality leap in your professional career”*

TECH makes the goals of their students their own goals too.  
Together they work to achieve them.

The Postgraduate Certificate in IT Project Strategic Monitoring and Control helps students to:

01

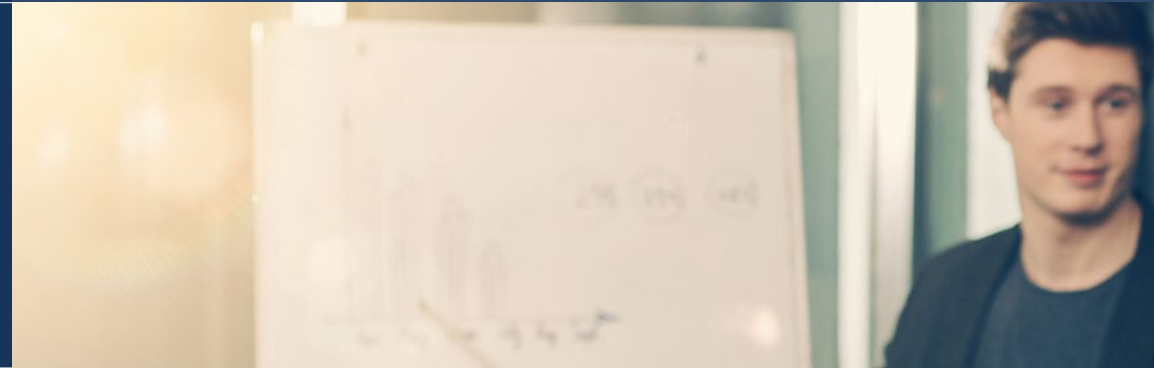
Determine data life cycle phases

04

Develop technological trends to control and monitor projects and processes

02

Establish the differences between the different types of analysis



03

Evaluate the technological solutions most commonly used today

05

Determine the phases of data life cycles: data, information, knowledge and value



06

Examine the different levels of Analytics: descriptive, prescriptive and predictive

08

Evaluate the advantages of a set of technology solutions used in business intelligence

09

know the differences between the various data warehousing paradigms: *Data Lake, Data Warehouse and Data Mart*

07

Examine the differences between structured, semi-structured and unstructured formats

10

Study different business intelligence solutions: Power BI, Tableau, Qlik and Prometheus



05

# Structure and Content

The Postgraduate Certificate in IT Project Strategic Monitoring and Control consists of 1 single module and 10 content topics that cover all the learning material on the program. Through them, students will learn about the multiple aspects involved in data management, from reception to storage, through management and conversion into a valuable asset for the company.



“

*There will be no data that you cannot use to your advantage thanks to the knowledge of leadership that this Postgraduate Certificate includes”*

## Syllabus

The Postgraduate Certificate in IT Project Strategic Monitoring and Control of TECH Technological University prepares students to manage and analyze data in their favor when making strategic decisions in the management of IT projects.

This guides students to learn the complete life cycle of data, as well as the different types of data that can be collected and proper storage to then streamline consultation and management processes. Likewise, they will be instructed in the different business intelligence solutions used to analyze data: Power BI, Tableau, Qlik and Prometheus.

The 150-hour program is supported by abundant audiovisual and practical material, which facilitates and enlivens study work.

The program also focuses on the potential future of business intelligence in order to prepare students for any scenario. Cloud applications, self-consumption business intelligence and integration with Data Science as an engine of value generation are reviewed.

All this, with the added advantage of a 100% online format, which will prove to be a great organizational aid for students to set their own study time and pace.

This Postgraduate Certificate takes place over 6 weeks, and it consists of 1 module:

### Module 1

### IT Project Strategic Monitoring and Control



### Where, When and How is it Taught?

TECH offers the possibility of developing this Postgraduate Certificate in IT Project Strategic Monitoring and Control completely online. During the 6 weeks of the program, the student will be able to access all the contents of this program at any time, which will allow the student to self-manage his or her study time.

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

**Module 1. IT Project Strategic Monitoring and Control**

**1.1. Data and Information in Decision Making and Project Management**

- 1.1.1. Business Intelligence
- 1.1.2. Business Intelligence Concept Evolution
- 1.1.3. Data Life Cycle

**1.2. Information Analysis Techniques**

- 1.2.1. Descriptive Analytics
- 1.2.2. Prescriptive Analytics
- 1.2.3. Predictive Analytics
- 1.2.4. Pattern Analysis and Recommendation
- 1.2.5. Benefits of IT Projects Analysis

**1.3. Types of Data**

- 1.3.1. Structured Data
- 1.3.2. Semi-Structured Data
- 1.3.3. Unstructured Data

**1.4. Storage and Management**

- 1.4.1. Data Lake, Data Warehouse and Data Mart
- 1.4.2. Stages in Data Management: Extraction, Transformation and Loading
- 1.4.3. ETL and ELT Paradigm

**1.5. Data Management for Project Implementation**

- 1.5.1. Data Use in Project Design
- 1.5.2. Decision-Making
- 1.5.3. Benefits

**1.6. Business Intelligence Solutions: Power BI**

- 1.6.1. Ecosystem
- 1.6.2. Potential Strengths and Weaknesses

**1.7. Business Intelligence Solutions: Tableau**

- 1.7.1. Ecosystem
- 1.7.2. Strengths and Weaknesses

**1.8. Business Intelligence Solutions: Qlik**

- 1.8.1. Ecosystem
- 1.8.2. Potential Strengths and Weaknesses

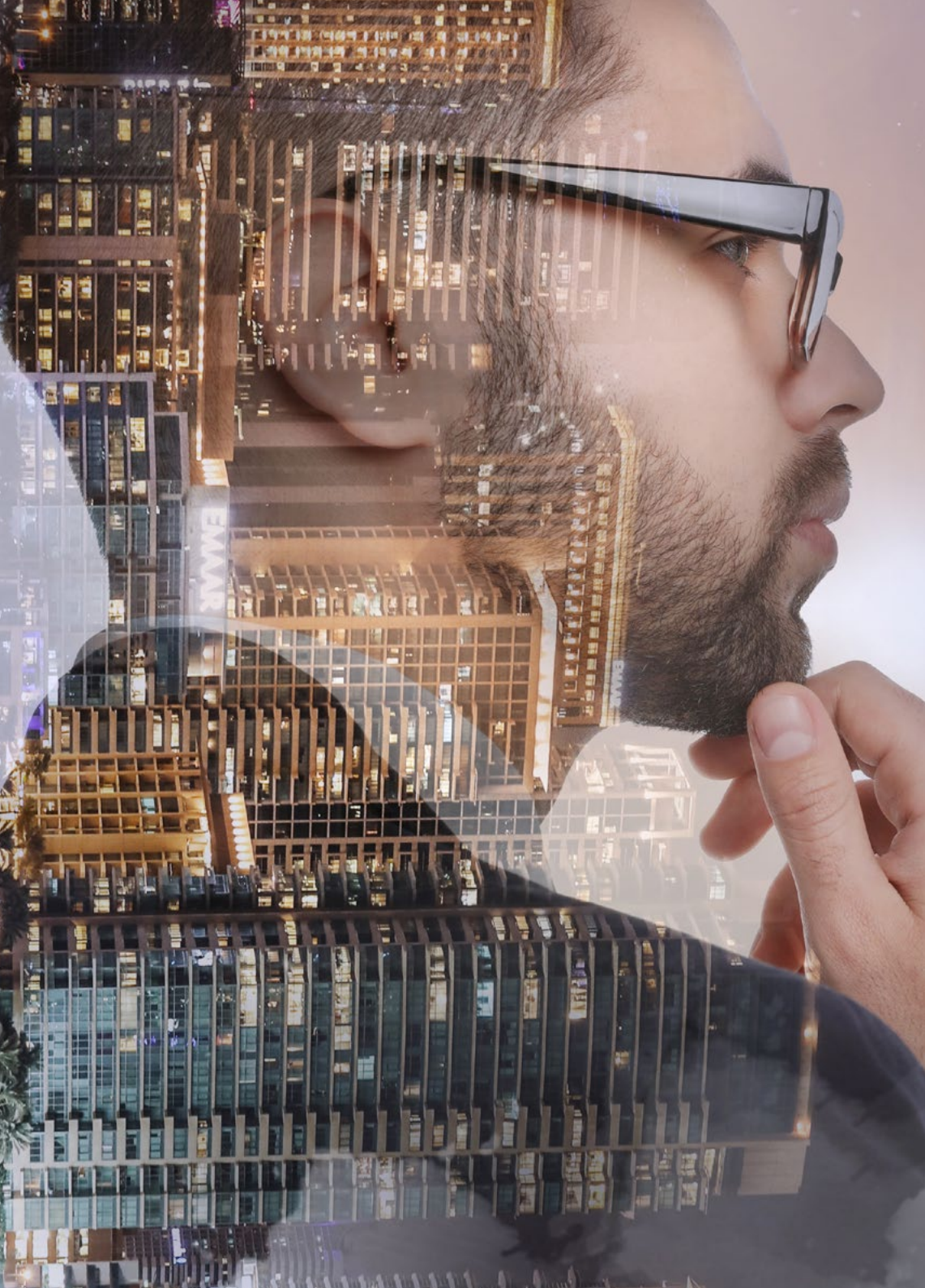
**1.9. Business Intelligence Solutions: Prometheus**

- 1.9.1. Ecosystem
- 1.9.2. Potential Strengths and Weaknesses

**1.10. Future of Business Intelligence**

- 1.10.1. Cloud Applications
- 1.10.2. Self-consumption Business Intelligence
- 1.10.3. Integration with Data Science. Value Creation





“

*Your expertise in strategic monitoring and control of IT projects will elevate your professional status to guarantee higher and more prominent positions”*



06

# 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"*



## 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.

“

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



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



### 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.

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

## 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.





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.





### 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 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

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.



07

# Our Students' Profiles

Experts in the field of IT project management have developed all the learning material for this Postgraduate Certificate, which guarantees students access to the most up-to-date knowledge and tools that are currently being used by professionals around the world. The student profile for this course, coming from various nationalities and disciplines, confirms the international and transversal character of the program. This reaffirms the relevance of this Postgraduate Certificate in any area of business, as it allows students to aspire to launch their careers at an international level or improve their status within their current organization.



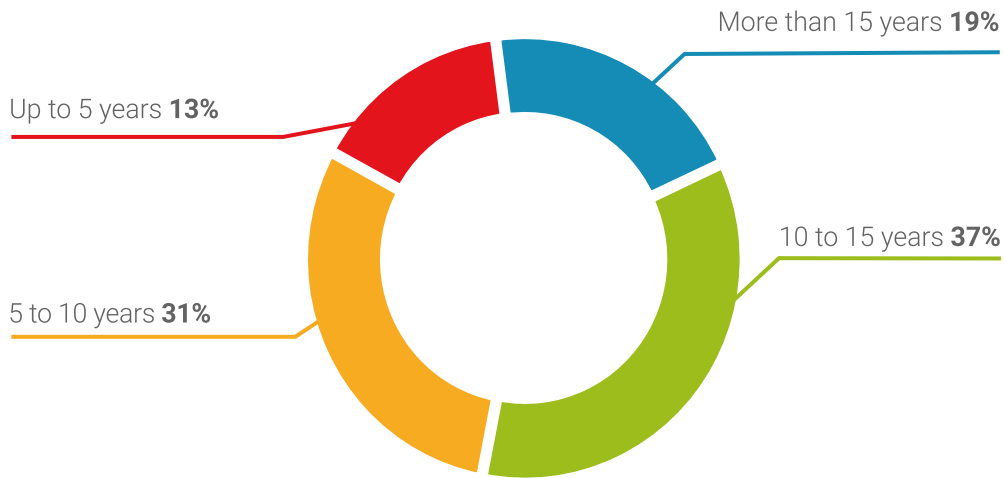
“

*Great IT leaders know how to manage data to their advantage. Aspire to become a great leader with this Postgraduate Certificate in IT Project Monitoring and Strategic Control”*

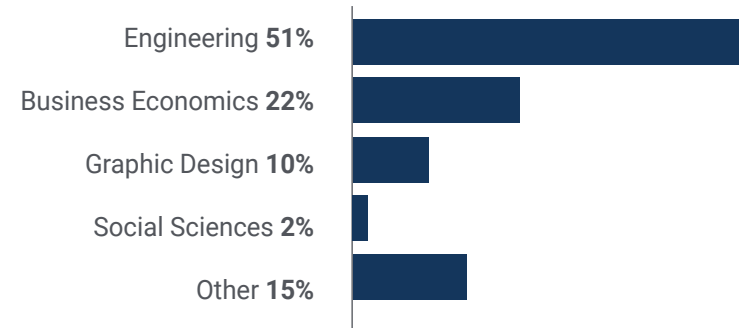
### Average Age

Between **35** and **45** years old

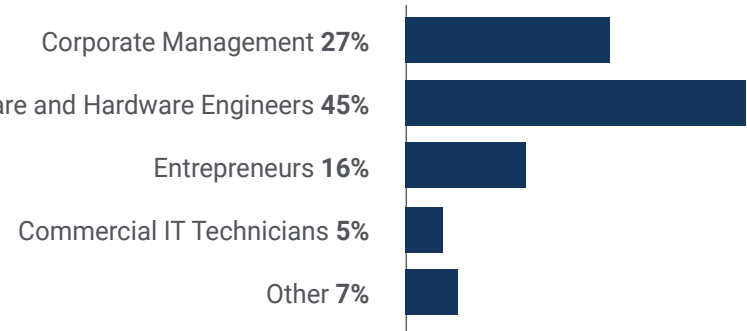
### Years of Experience



### Training

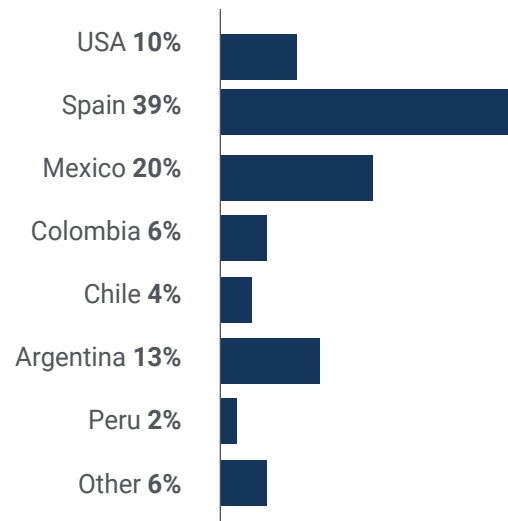


### Academic Profile



## Geographical Distribution

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## Navarra Sierra Gallardo

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Data Analysis Manager

*"One of the reasons I started to move up the corporate ladder was because of my smart and strategic use of data. By providing solutions that other leaders couldn't see, I was able to stand out in my company and get better compensation"*



08

# Course Management

TECH has assembled the best possible team of experts in the field of IT Project Management and Control, with proven professional experience in the field. Students are thus assured access to quality educational content with the best and most innovative methodologies used in the technology field today. With these competences, students will be prepared to face the leadership of the most ambitious IT projects.



“

*Thanks to the expertise of the best experts in the field of Data Management and Analysis, you will be able to give a quality turn to your professional aspirations”*

## Director



### Dr. Peralta Martín-Palomino, Arturo

- ♦ CEO and CTO at Prometheus Global Solutions
- ♦ CTO in AI Shephers GmbH
- ♦ CTO at Korporate Technologies
- ♦ Director of Design and Development at DocPath Document Solutions
- ♦ Computer Engineer from the University of Castilla La Mancha
- ♦ Doctorate in Psychology from the University of Castilla La
- ♦ PhD in Economics, Business and Finance from the Camilo José Cela University
- ♦ Master's Degree in Advanced Information Technologies from the University of Castilla La Mancha
- ♦ MBA+E (Master's Degree in Business Administration and Organisational Engineering) from the University of Castilla La Mancha

## Professors

### Ms. Martínez Cerrato, Yésica

- ♦ Project Manager in the area of Key Account Integration at the Spanish Postal Service
- ♦ Computer Technician - Responsible for computer classrooms OTEC at the University of Alcalá
- ♦ Electronic Security Product Technician at Securitas Security Spain
- ♦ Digital Transformation Manager and Business Intelligence Analyst at Ricopia Technologies
- ♦ Computer classes teacher in ASALUMA Association
- ♦ Degree in Electronic Communications Engineering at the University of Alcalá, Spain







09

# Impact on Your Career

The financial, professional and personal investment that students have to make to study this Postgraduate Certificate is considerable. TECH is aware of this great effort, so it guarantees its students the positive impact that specializing in this subject will have on their careers. With extensive competencies in monitoring and strategic control of IT projects, students will broaden their job prospects to be able to apply for better jobs.





“

*You will see how you will be able to access better jobs thanks to this specialization in Data Management and Monitoring in IT Projects”*

*Advanced skills are required to access better job positions. Enroll in this Postgraduate Certificate and enhance your skills in Strategic Management of IT Projects.*

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

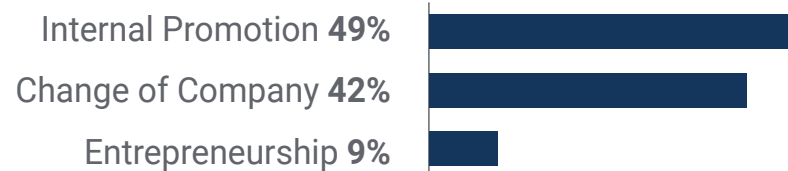
TECH's Postgraduate Certificate in IT Project Strategic Monitoring and Control is an intensive program that prepares students to manage, store and convert data into assets of interest to the company, applying innovative solutions to emerging problems. The main objective is to promote your personal and professional growth, helping you achieve success.

*With this specialization in Intelligent Data Management, Monitoring and Assessment, you will stand out in a field where professionals are constantly updating their qualifications.*

### Professional change for our students



### Type of change





## Salary increase

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This program represents a salary increase of more than **30.68%** for our students.



10

# Benefits for Your Company

Properly monitoring IT projects is essential, as it will facilitate quick decisions to be made regarding its development, and to channel the work in the right direction. Therefore, any technology company that incorporates a manager with high skills in analysis and strategic control of projects will see how their plans prove more effective and will obtain better results in all phases of its development.



“

*TECH offers you the best tools and possibilities for you to launch your professional career towards the top of the best technology companies”*

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

01

### Intellectual Capital and Talent Growth

The professional will introduce the company to new concepts, strategies, and perspectives that can bring about significant changes in the organization.

---

02

### Retaining high-potential executives to avoid talent drain

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

03

### Building agents of change

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

---

04

### Increased international expansion possibilities

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



05

### **Project Development**

Managers will be able to work on a real project or develop new projects in the R&D or Business Development area of their company.

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06

### **Increased competitiveness**

This Postgraduate Certificate will equip your professionals with the skills to take on new challenges and thus drive the organization forward.



11

# Certificate

The Postgraduate Certificate in IT Project Strategic Monitoring and Control 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 IT Project Strategic Monitoring and Control** 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 IT Project Strategic Monitoring and Control**

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.



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- » Schedule: at your own pace
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