

# Postgraduate Certificate Project Management with Predictive Methodologies





## Postgraduate Certificate Project Management with Predictive Methodologies

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online
- » Target Group: IT professionals who want to specialize in project management with predictive methodologies

Website: [www.techtute.com/us/school-of-business/postgraduate-certificate/project-management-predictive-methodologies](http://www.techtute.com/us/school-of-business/postgraduate-certificate/project-management-predictive-methodologies)

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# 01 Welcome

In order to understand the multitude of aspects involved in project management, it is necessary to have a knowledge base on which to specialize in the techniques, tools and skills inherent to this discipline. In addition to these techniques, it is essential to understand the reasons why projects are undertaken, the different environments in which they are developed and how this environment can lead to different decisions and strategies for the execution of these projects. Undoubtedly, a complex area that requires great specialization by professionals working in this field and who will find in this TECH program the most relevant information to excel in their work, achieving the expected objectives and adapting to changes in the environment.



Postgraduate Certificate in Project Management with Predictive Methodologies. TECH Technological University



“

*Specialize in project management and bring more confidence to your daily practice, achieving your goals”*

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

---

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

Students in the 21st century demand high-quality programs with which they can specialize in areas that are fundamental for their professional development. But they also require great flexibility when it comes to studying, as they are multi-skilled people who, in many cases, have to combine their studies with their work. For this reason, TECH Technological University has designed this program, with the main objective of offering quality education to those who wish to delve into the knowledge of project management.



“

*Improve your project management skills with predictive methodologies thanks to the specialization offered by TECH Technological University”*



Your goals are our goals.

We work together to help you achieve them.

The **Postgraduate Certificate in Project Management with Predictive Methodologies** will enable the student to:

01

Develop expertise in project, program and portfolio management, and determine how project management fits within organizations

04

Establish the differences between project and process management and their application to the different departments of a company/organization

02

Analyze the current state of the art of project management and why it is still important to master predictive management

05

Determine the different levels of aggregated management: projects, programs and portfolio

03

Examine the most relevant concepts involved in learning professional project management

06

Specify the attributions and responsibilities of project managers as the person who performs this role, regardless of their position in the hierarchy



07

Provide an advanced view on the different execution environments, the different reasons for undertaking projects, and how all this can affect project management in real practice

10

Examine the different implications of managing projects depending on their size and the size of the organization executing them

08

Be aware of the importance of results focus and customer orientation as guides in the practice of managing our projects

11

Have an updated starting point on the state of the art of project management

09

Examine the different implications of managing projects depending on their size and the size of the organization executing them

12

Provide the student with criteria for the understanding and subsequent in-depth study of predictive management methodologies and their application in today's environment

05

# Structure and Content

TECH offers its students a high-level program, aimed at professionals looking for superior education in project management with predictive methodologies. This Postgraduate Certificate has an up-to-date syllabus with the main developments of the sector and has been structured in such a way that the students will be able to guide themselves through the different units, making a comprehensive and effective learning for their daily practice.



“

*A high-level syllabus where you will find the latest information for proper project management”*

## Syllabus

The Postgraduate Certificate in Project Management with Predictive Methodologies of TECH Technological University is an intensive program that prepares students to face challenges and business decisions in the field of integrated project management. Its content is designed to promote the development of managerial skills that enable more rigorous decision-making in uncertain environments.

Throughout 150 hours of study, students will study a multitude of practical cases through individual work, which will allow them to acquire the necessary skills to successfully develop in their daily practice. It is, therefore, a real immersion in real business situations.

This program deals in depth with different areas of the company and is designed for managers to understand project management from a strategic, international and innovative perspective.

A plan designed especially for students, focused on their professional improvement and preparing them to achieve excellence in the field of management and business management. A program that understands your needs and those of your company. Through innovative content based on the latest trends, supported by the best educational methodology and an exceptional faculty, it will provide you with the skills to solve critical situations creatively and efficiently.

It is a program which is carried out in 6 weeks and is divided into one module:

### Module 1

### Project Management with Predictive Methodologies



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

TECH offers the possibility of developing this Postgraduate Certificate in Project Management with Predictive Methodologies completely online. Over the course of 6 weeks, 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.*

**Module 1. Project Management with Predictive Methodologies**

**1.1. Project Management**

- 1.1.1. Projects Vs. Operations. Process and Project
- 1.1.2. Project Management Relevance
- 1.1.3. VUCA Environments and Project Management
- 1.1.4. Environment Overview: Predictive Methodologies and Agile Environments

**1.2. Project, Program and Portfolio Management**

- 1.2.1. Differences between Project, Program and Portfolio Management
- 1.2.2. Alignment with the Business and the Organization's Strategy
- 1.2.3. Organizational Project Management (OPM)

**1.3. Organizational Structure of the Project**

- 1.3.1. The Project Manager's Role, Functions and Attributions
- 1.3.2. Functions and Responsibilities
- 1.3.3. The Project Team
- 1.3.4. Customer Orientation and Results Orientation

**1.4. The Project Management Process: Activities and Management Areas**

- 1.4.1. Management Effort Vs. Execution Effort
- 1.4.2. Management Areas in Any Project
- 1.4.3. Project Management Methodology in the Organization

**1.5. Project Life Cycle in the Organization**

- 1.5.1. Life Cycles in the Organization Depending on the Type of Projects (R&D, Implementation, Product Design, etc.)
- 1.5.2. Internal Standardization: Standard Lifecycle in the Organization
- 1.5.3. Projects and Subprojects, Phases and Activities

**1.6. Project Undertaking Environments**

- 1.6.1. Environments and Reasons to Undertake Projects. Project Selection
- 1.6.2. Company Projects and Projects Guided by the Administration. Contracting Processes Vs. Bidding
- 1.6.3. Offer and Commitment to the Client and the Promoter. Definition Vs. Project Formulation
- 1.6.4. Relationship Between the Execution Environment and the Methodology to be Used

**1.7. Evaluation of Project Results**

- 1.7.1. Project Performance Evaluation Techniques
- 1.7.2. Internal Evaluation of Results for the Organization
- 1.7.3. Fulfillment of Requirements Vs. Satisfaction of Customer Expectations
- 1.7.4. Value Assurance and Long-Term Effects

**1.8. Project Management in the Context of Large Systems**

- 1.8.1. Relationship between Project Management and Systems Engineering
- 1.8.2. Systemic view of Project Management
- 1.8.3. Influence of the Degree of Complexity on Project Management

**1.9. Project Management in the Context of Small Organizations**

- 1.9.1. Project Management as applied in the SME Environment
- 1.9.2. Micro-Projects and Adaptation of the Methodology
- 1.9.3. Project Management Outsourcing

**1.10. Current Trends in Project Management**

- 1.10.1. Neither Predictive nor Agile: Hybridization
- 1.10.2. Lean Project Management
- 1.10.3. Projects and Digital Transformation
- 1.10.4. Impact of New Technologies on Project Management



“

*A high-level syllabus designed to improve your project management education”*



# 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.*



*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.



## 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

Professionals who want to update their knowledge in project management, discover new ways of working and advance in their professional career will find in this program a unique study opportunity. It is a Postgraduate Certificate aimed at professionals with experience, but who believe in continuous updating of knowledge as a method to improve personally and professionally. Undoubtedly, it will be a stimulating and definitive experience to expand competitiveness at the work level and achieve the desired leap.







“

*TECH students are experienced professionals seeking higher specialization in a particular field”*

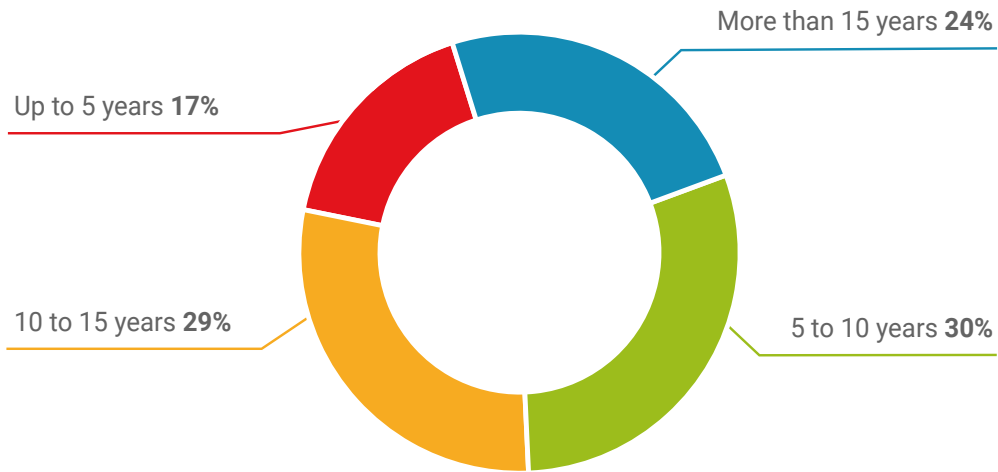
### Average Age

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

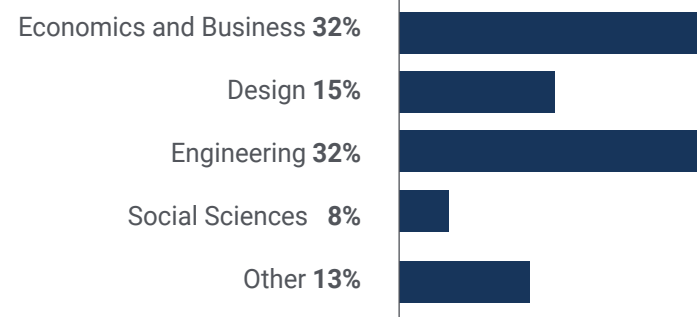
### Years of Experience

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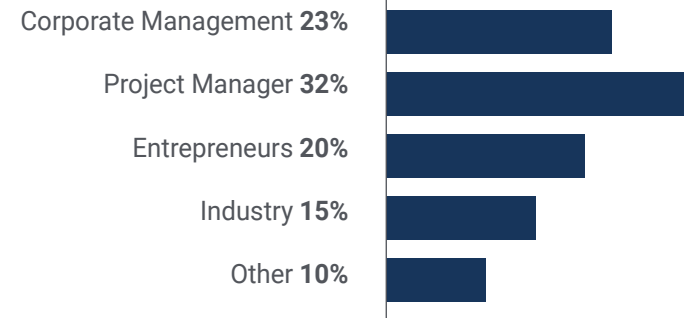
### Training

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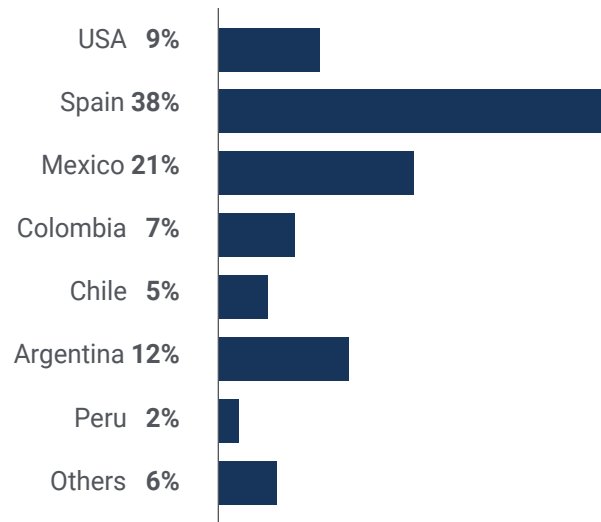
### Academic Profile

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## Geographical Distribution

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## Jaime Díaz

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Project Manager

*"The Postgraduate Certificate in Project Management with Predictive Methodologies has been of great relevance to my profession, since, although I was already working in this sector, I have been able to update myself on the main developments in this field, so now I act with greater confidence. Undoubtedly, its online format has been indispensable for me to be able to take it"*

08

# Course Management

Professionals with extensive experience in the sector, both professionally and educationally, have joined forces to offer students in this program the most relevant information on the subject. They are prestigious teachers who understand the importance of higher education in order to achieve a better qualified community, capable of adapting to the changes in society and the demands of companies.





“

*Prestigious teachers will help  
you to give your career a boost”*

## Management



### Mr. Pérez Pérez, Manuel Felipe

- ♦ Senior Project Manager – EQUIDEA
- ♦ Project Manager - AYDEM Consulting
- ♦ Consultant/Trainer in Organizational Development and Project Management
- ♦ Head of Training for Postgraduate Studies of the College of Computer Engineers of Madrid
- ♦ Technical Telecommunications Engineering - UPM
- ♦ Telecommunication Systems Engineering - UPM
- ♦ European Engineer EUR-ING - FEANI
- ♦ PMP ® (Project Management Professional) - PMI ID: 1767390 Nov 2014
- ♦ Advanced Agile Project Management Program. SCRUM

## Professors

### Dr. García Nieto, Evelyn

- ♦ Engineer responsible for the Department of Surgical Planning, Design, Additive Manufacturing and Management of Customized Systems at Maxilaria Surgery, S.L.
- ♦ Biomedical Engineer at Meirovich Consulting
- ♦ Director of organization of the Iberian Society of Biomechanics and Biomaterials (SIBB) Congresses
- ♦ PhD in Engineering from the Polytechnic University of Madrid
- ♦ Industrial Engineer by the ETSI Industrial - Polytechnic University of Madrid
- ♦ Mechanical Engineer from the University of Pinar del Río-Cuba





09

# Impact on Your Career

The completion of this Postgraduate Certificate in Project Management with Predictive Methodologies of TECH Technological University is a unique opportunity to improve professionally. In this sense, the academic institution, aware of the great effort made by students, has designed this program to improve their education and skills, and to be more effective in their daily practice. In short, the solution needed to achieve the momentum that students deserve.





“

*If you are looking for a radical change at a professional level, don't think twice and enroll in this Postgraduate Certificate”*

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

The Postgraduate Certificate in Project Management with Predictive Methodologies of TECH Technological University is an academic program that is developed in an intensive manner and aimed at improving students' work skills in an area of wide competence. Undoubtedly, it is a unique opportunity to improve professionally, but also personally, as it involves effort and dedication.

Students who wish to improve themselves, achieve a positive change at a professional level and interact with the best, will find their place at TECH Technological University.

*This program will allow you to move up in your profession in a short period of time.*

*Achieve the professional change you want by enhancing your education with this program.*

### When the change occurs



### Type of change



### Salary increase

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This program represents a salary increase of more than **25.22%** for our students



10

# Benefits for Your Company

The Postgraduate Certificate in Project Management with Predictive Methodologies is an intensive and high-quality program that has been designed to improve the qualities of students, but also, thinking about the benefits that professionals can bring to your company. A superior education will allow them to develop skills in line with current needs, so that students will be able to catch up with new trends in this field, which they can apply to their daily work.





“

*This program will help you lead your projects effectively, achieving the maximum benefit for your company”*

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

01

### Intellectual Capital and Talent Growth

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

---

02

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

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

03

### Building agents of change

The professional 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

The professional will be work on a current project or develop new projects in the field of R&D or Business Development within their company.

---

06

### Increased competitiveness

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

11

# Certificate

The Postgraduate Certificate in Project Management with Predictive Methodologies 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 Project Management with Predictive Methodologies** 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 Project Management with Predictive Methodologies**

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.



## Postgraduate Certificate Project Management with Predictive Methodologies

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- » Exams: online

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