Postgraduate Certificate

IT Project Strategic Monitoring and Control

tech global university

tech global university

Postgraduate Certificate
IT Project Strategic Monitoring and Control

- Modality: **online**
- Duration: **6 weeks**
- Certificate: **TECH Global University**
- Credits: **6 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Website: www.techtitute.com/us/information-technology/postgraduate-certificate/it-project-strategic-monitoring-control

Index

01 Introduction p. 4

02 Objectives p. 8

03 Course Management p. 12

04 Structure and Content p. 16

05 Methodology p. 20

06 Certificate p. 28

01

Introduction

Bad Data Analyses can lead to confusion or a bad strategy decision, hurting both the project and the company. Having this responsibility requires good stress management skills and the right knowledge to avoid failures. Therefore, a good Project Manager will analyze and evaluate every aspect of the information they receive. In this program, students will therefore acquire the tools necessary to become an expert in data use to design projects that improve company management.

Do you want to understand the best way to process and analyze data? Enroll and start exploring the different ways to structure them"

In the business world, it is necessary to make Strategic Decisions and, therefore, it is of vital importance to be cautious with the information used for this purpose. For this reason, there are several Business Intelligence Strategies that drive change, eliminate inefficiencies and adapt to market needs.

That is why programs such as this Postgraduate Certificate in IT Project Strategic Monitoring and Control are essential to help students identify trends in the IT market more easily, resulting in increased company sales or revenue. In this sense, the program will begin with a review of the fundamental aspects of Data and Information in Decision Making. Then we will proceed to understand Analysis Techniques, where Descriptive, Prescriptive and Predictive Analytics stand out.

Furthermore, Business Intelligence Solutions are the best way to exploit and add value to company data, making it available at the right time and in the necessary format. In this sense, the program will explore four options, outlining their utilities and strengths. Thanks to these contents, students will be able to determine the future of *Business Intelligence* to bet on the best development for the company.

This **Postgraduate Certificate in IT Project Strategic Monitoring and Control** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- Analysis of everything involved in the Management and Direction of an IT Project, both in a productive and human sense
- Specific knowledge in the field of Team Management, with Innovative Methodologies adapted to New Technological Realities
- Extensive audiovisual content throughout the learning process, which makes study work easier and more enjoyable
- Content that is accessible from any fixed or portable device with an Internet connection

Large companies such as Amazon use Business Intelligence to generate sales reports automatically"

Learn how to use different Business Intelligence and Analytics software, such as Tableau"

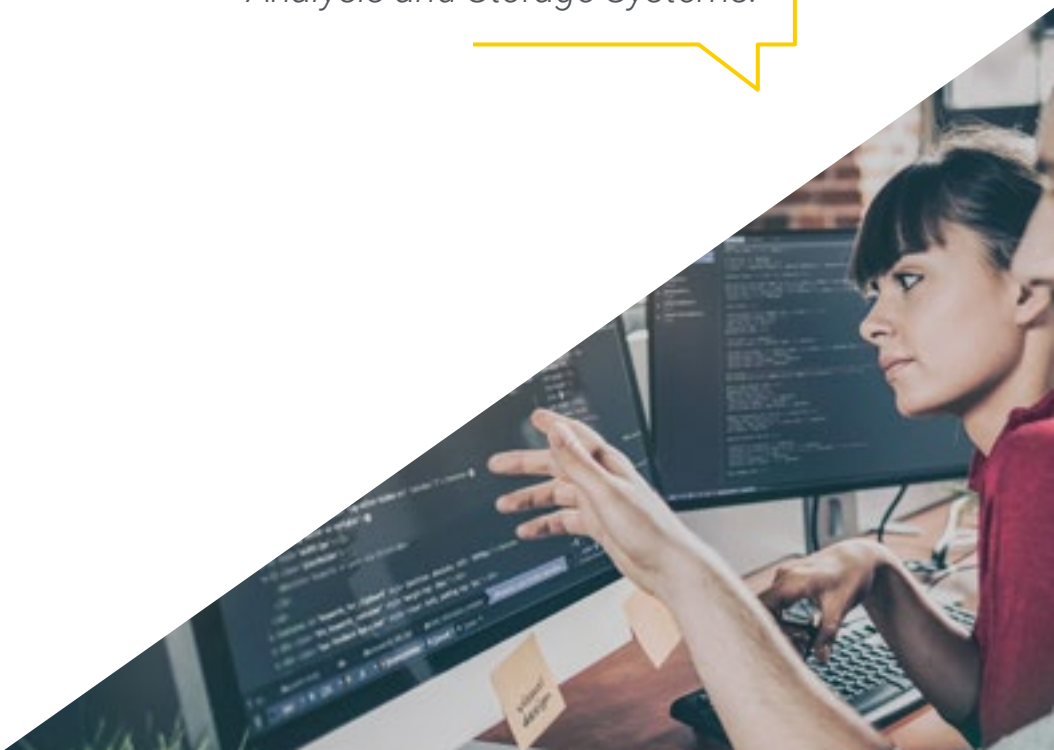
By enrolling now in this Postgraduate Certificate, you will be able to professionally advance in your company.

With this program you will acquire knowledge about Business Intelligence, Data Analysis and Storage Systems.

The program's teaching staff includes professionals in the 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 training programmed to train 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 during the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.



02

Objectives

By taking this program, students will enjoy better opportunities for career advancement, thanks to the new Business Intelligence skills they will acquire over this six-week program.

Thus, with a multidisciplinary approach, students will be able to perform data analysis to make decisions based on tangible evidence. This will allow them to have a profile that will be highly valued by their superiors.

Add value to the Strategic Control of Information Technology Projects and don't miss the opportunity to grow professionally"

General Objectives

- Determine data life cycle phases
- Establish the differences between the different Types of Analysis
- Evaluate the Technological Solutions most commonly used today
- Develop Technological Trends for the Control and Monitoring of Projects and Processes

You will go far after enrolling in and completing this academic program"

Specific Objectives

- Determine Data Life Cycle Phases: Data, Information, Knowledge and Value
- Examine the different Analytical Levels: Descriptive Analytics, Prescriptive Analytics, and Predictive Analytics
- Analyze the differences between the different Information Warehousing Paradigms: *Data Lake, Data Warehouse and Data Mart*
- Examine the differences between Structured, Semi-Structured and Unstructured Formats
- Develop the Extraction (E), Transformation (T) and Loading (L) Phases as well as the different ETL - ELT Paradigms
- Evaluate the advantages of a set of Technology Solutions used in Business Intelligence

03

Course Management

The teaching staff on this Postgraduate Certificate has been selected based on the extensive experience they have in the field, as well as their academic qualifications in computer and electrical engineering. Likewise, their work in the technology field has focused on directing and monitoring different projects for international companies, being responsible for driving the digital transformation within them, as well. For all this, students will have access to the best knowledge and real examples, adapted to the needs in the sector.

This teaching team is ready to help you grow and acquire new professional aspirations"

Management

Dr. Peralta Martín-Palomino, Arturo

- CEO and CTO at Prometeus 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 CastillaLa
- 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 Accounts Integration at Correos and Telégrafos
- 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

04

Structure and Content

The program structure has been designed by a group of experts who understand the importance of using Business Intelligence in companies today. For this reason, they provide a syllabus that encompasses everything necessary to analyze, store, manage and resolve all data-related matters. Likewise, they will be instructed in the different Business Intelligence solutions used to analyze data: *Power BI, Tableau, Qlik and Prometeus*.

Use all the data at your disposal to create reports that exemplify the steps the company must take to continue to grow"

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 Computer 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: *Prometeus*
  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

Raise your professional status and enroll in this Postgraduate Certificate to help you secure a position as a CTO in an international company"

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"

At TECH we use the Case Method

Our program offers a revolutionary method of skills and knowledge development. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

At TECH, you will experience a way of learning that is shaking the foundations of traditional universities around the world."

We are the first online university to combine Harvard Business School case studies with a 100% online learning system based on repetition.

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

A learning method that is different and innovative.

This intensive Information Technology program at TECH Global University prepares you to face all the challenges in this field, both nationally and internationally. We are committed to promoting your personal and professional growth, the best way to strive for success, that is why at TECH Global University you will use Harvard *case studies*, with which we have a strategic agreement that allows us, to offer you material from the best university in the world.

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

The case method has been the most widely used learning system among the world's leading Information Technology schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question that you are presented with in the case method, an action-oriented learning method. Throughout the course, students will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.

Relearning Methodology

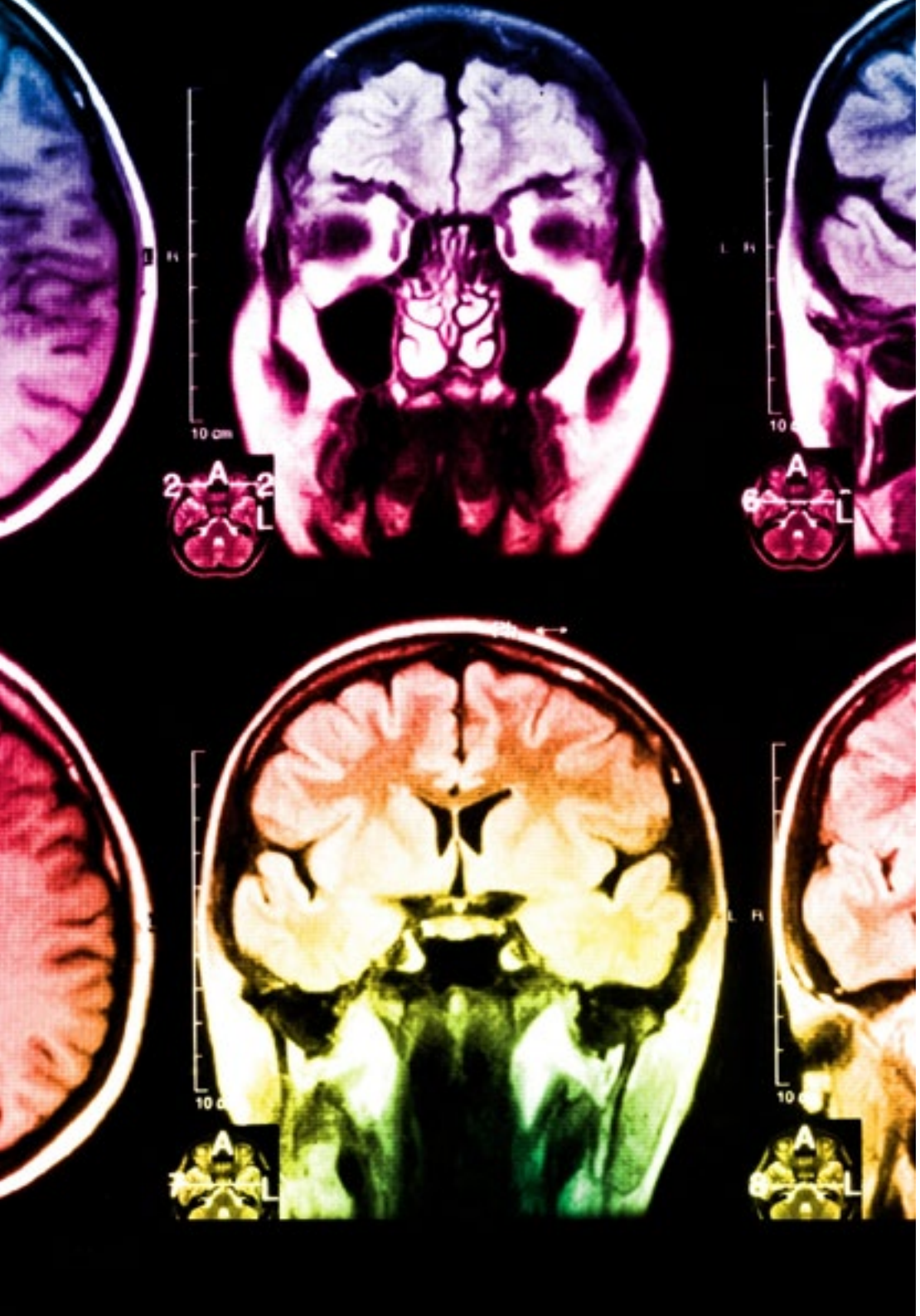
Our university is the first in the world to combine Harvard University *case studies* with a 100%-online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance Harvard *case studies* 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 university 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.

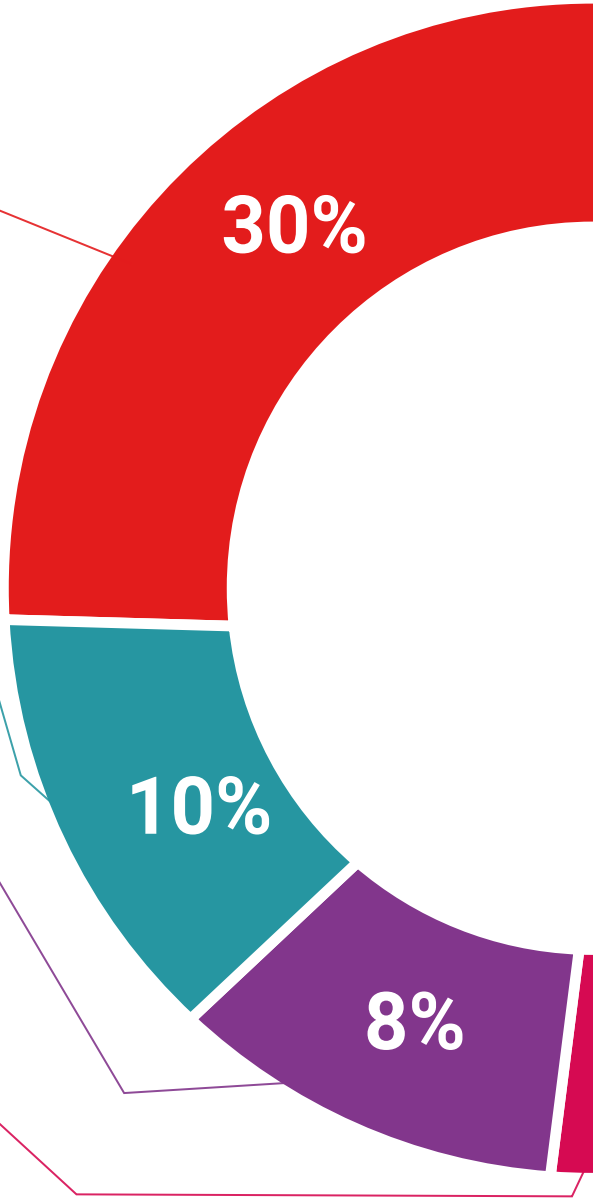
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.

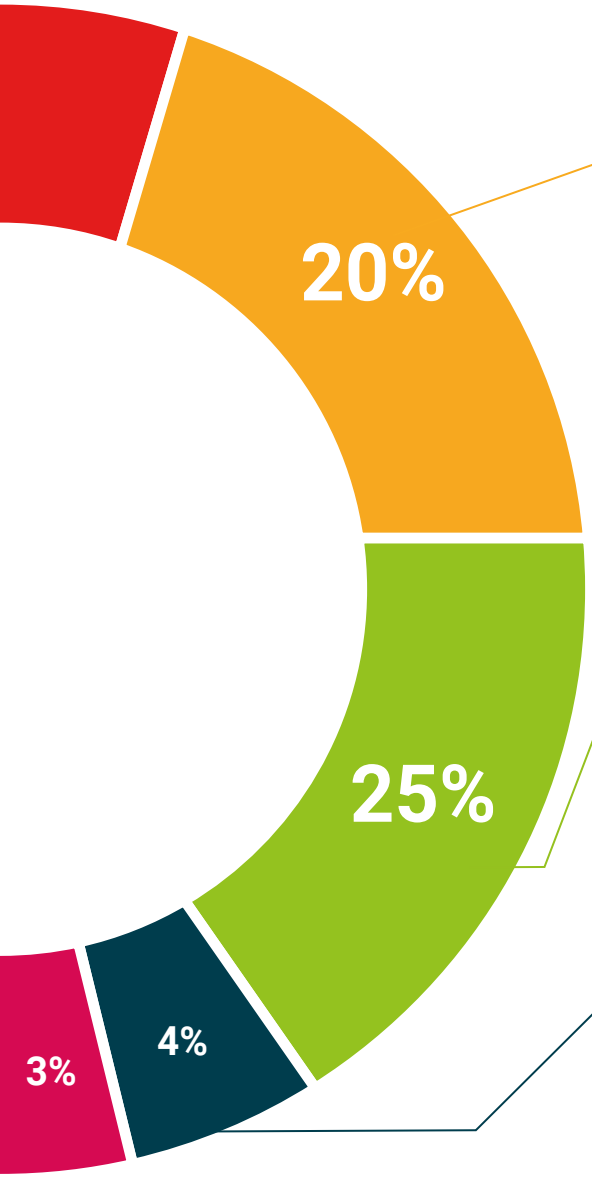
Practicing Skills and Abilities

They will carry out activities to develop specific competencies and skills in each thematic area. Exercises and activities to acquire and develop the skills and abilities that a specialist 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

They will complete a selection of the best case studies in the field used at Harvard. 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 multimedia content presentation training Exclusive system 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 your goals.

06

Certificate

The Postgraduate Certificate in IT Project Strategic Monitoring and Control guarantees, in addition to the most rigorous and up-to-date training, access to a qualification issued by TECH Global University.

Successfully complete this program and receive your diploma without the hassle of travel or paperwork”

This program will allow you to obtain your **Postgraduate Certificate in IT Project Strategic Monitoring and Control** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra (***official bulletin***). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in IT Project Strategic Monitoring and Control**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**

tech global university

Mr./Ms. _____, with identification document _____
has successfully passed and obtained the title of:

Postgraduate Certificate in IT Project Strategic Monitoring and Control

This is a program of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
Rector

Unique TECH Code: AFWORD23S techtitute.com/certificates

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

tech global university

Postgraduate Certificate

IT Project Strategic Monitoring and Control

- Modality: **online**
- Duration: **6 weeks**
- Certificate: **TECH Global University**
- Credits: **6 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Postgraduate Certificate

IT Project Strategic Monitoring and Control

tech global university