

Postgraduate Certificate

IT Project Management and Control
Using Business Intelligence



Postgraduate Certificate IT Project Management and Control Using Business Intelligence

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

Website: www.techtitute.com/us/information-technology/postgraduate-certificate/it-project-management-control-using-business-intelligence

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01

Introduction

Managing and Controlling IT Projects has become a complex process, which requires professionals specialized in Measurement and Analytical Techniques to validate the decisions taken. Also, information analysis stands out in this field as a tool to improve company performance and to anticipate possible problems. Consequently, this degree brings together the latest knowledge in the area, which will help to develop or apply data in various contexts to propose potential solutions to problems. It will then be this ability to see beyond which will allow students to access new career options to work as a CTO.



“

Unify, cleanse and transform data, turning it into valuable information for the company. Enroll now and develop new strategies”

Currently, Business Intelligence is one of the Data Analysis Techniques most used by companies to make realistic decisions, as they seek to unite, purify and transform data from different Information Systems and turn them into useful knowledge at a strategic level. Therefore, having experience in this area means better professional opportunities to grow within a company.

In the following program, students will learn all the fundamentals required to understand this topic. The bases of technical and analytical knowledge will be established to propose, communicate and develop business models, justifying their benefits and their opportunity for organizations.

With all this knowledge, students will be able to develop the skills required to design and meet their KPIs. Consequently, they will become true experts in IT Project Management and Control, allowing them to access new professional opportunities and, in the near future, start developing their own IT company.

The **Postgraduate Certificate in IT Project Management and Control Using Business Intelligence** contains the most complete and up-to-date educational program on the market. The most important features include:

- ◆ 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
- ◆ Access to content from any fixed or portable device with an Internet connection



Learn how to effectively communicate the results of business analysis in an understandable and simple way”

“

Learn how to develop strategies and practices to support the Digital Transformation of the Company”

By enrolling now you will be able to develop or apply data in various contexts.

Do you want to be part of the digital change of a company? This Postgraduate Certificate provides you with the tools to achieve it.

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

The objective of this Postgraduate Certificate has been conceived to help students in their professional path, not only aspiring to better positions in their professional area, but motivating them to develop strategies and skills that will enable them to start their own IT company. To do this, they must know all the processes of data collection, processing and application in the business environment.





“

By enrolling in this program, you will be able to reach the top. Become the new CEO of an IT company”



General Objectives

- ◆ Develop specialized knowledge in the application of Business Intelligence Techniques for Project Management and Control
- ◆ Examine Project and Process Control and Monitoring
- ◆ Design Control Strategies
- ◆ Propose advanced solutions to problems that may arise in companies, integrating techniques and methods studied

“

In six weeks, you will learn everything you need for a successful career in IT Project Management and Control”





Specific Objectives

- ◆ Develop specialized knowledge to deal with the complexity of making judgments based on information acquired from different information systems
- ◆ Develop or apply data in diverse contexts
- ◆ Solve problems in complex contexts and with incomplete information
- ◆ Combine knowledge and techniques from different disciplines and propose interdisciplinary solutions
- ◆ Effectively communicate analytics results to technical and non-technical audiences
- ◆ Determine business analytics application cases for recurrent problems, known or new, in companies
- ◆ Develop change strategies and practices for digital business transformation through the advanced application of analytical techniques
- ◆ Propose, communicate and elaborate business models or business transformation models justifying their benefits and opportunity for organizations
- ◆ Obtain strategy and data management results for project control purposes
- ◆ Develop management skills at strategic, organizational and project levels, from value proposition to business transformation strategies design

03

Course Management

This program includes a teaching staff specialized in project management and control. Students will see that their professional profile consists of multiple projects and academic degrees, including several doctorates in computer engineering, economics and finance; in addition to participating in digital transformation projects. For all this, they will guide students to excel and develop their managerial skills.



Analysis



“

The excellent teaching staff on this Postgraduate Degree will help you reach the top of your professional career leading multiple technology projects”

Management



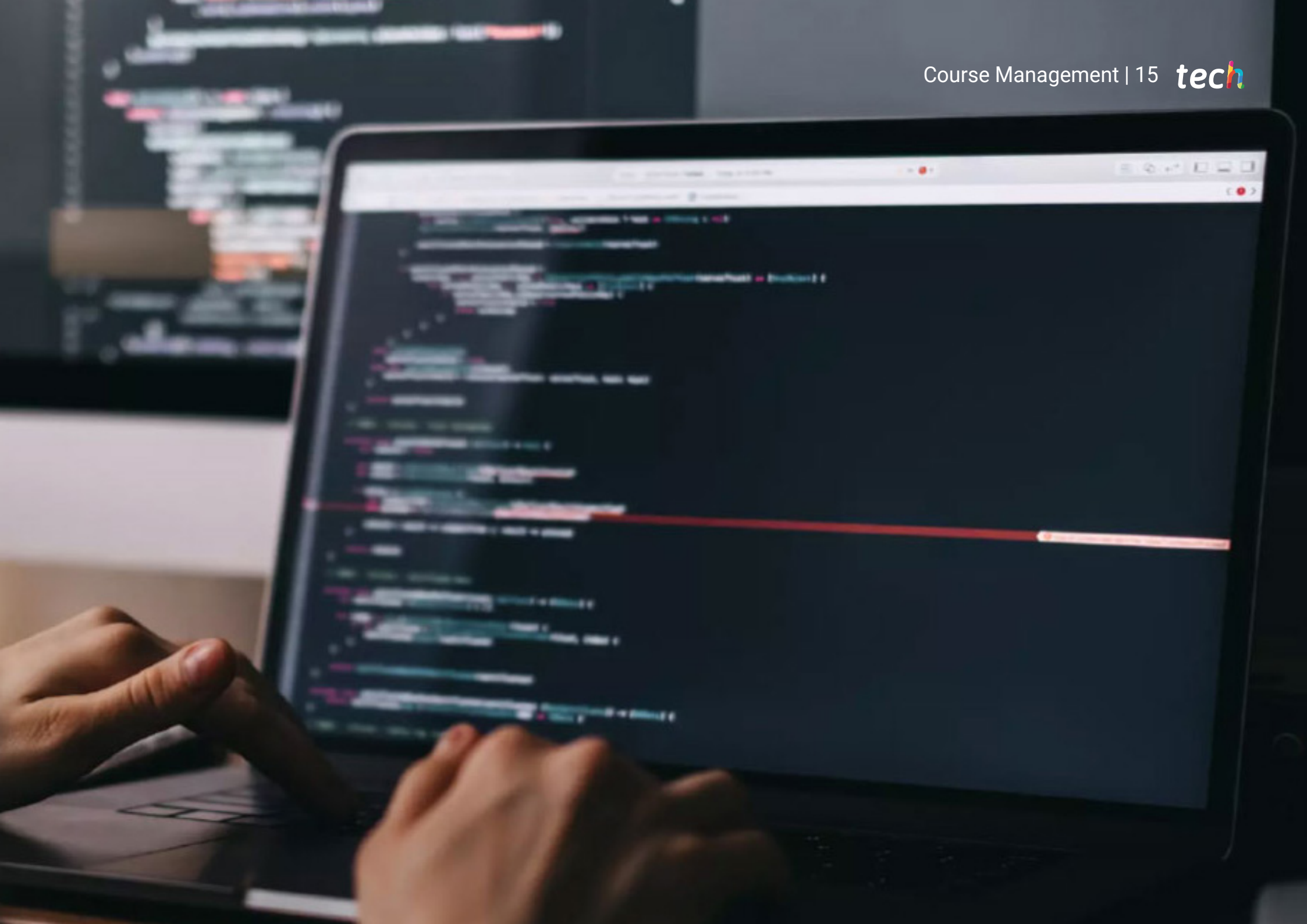
Dr. Peralta Martín-Palomino, Arturo

- ◆ 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 Science Engineer from the University of Castilla la Mancha
- ◆ Doctorate in Psychology from the University of Castilla la Mancha
- ◆ PhD in Economics, Business and Finance from 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

Professor

Ms. Martínez Cerrato, Yésica

- ◆ Project Manager in the area of Key Accounts Integration at Correos and Telégrafos
- ◆ Computer Technician Responsible for OTEC computer classrooms 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 at ASALUMA Association
- ◆ Degree in Electronic Communications Engineering at the University of Alcalá, Spain



04

Structure and Content

The Postgraduate Certificate in IT Project Management and Control Using Business Intelligence has been designed by a group of professionals who know the needs of the field. In this way, students will have a unique opportunity to access content that will propel their careers to the top, learning the essential fundamentals of Business Intelligence and Predictive Analytics Techniques.

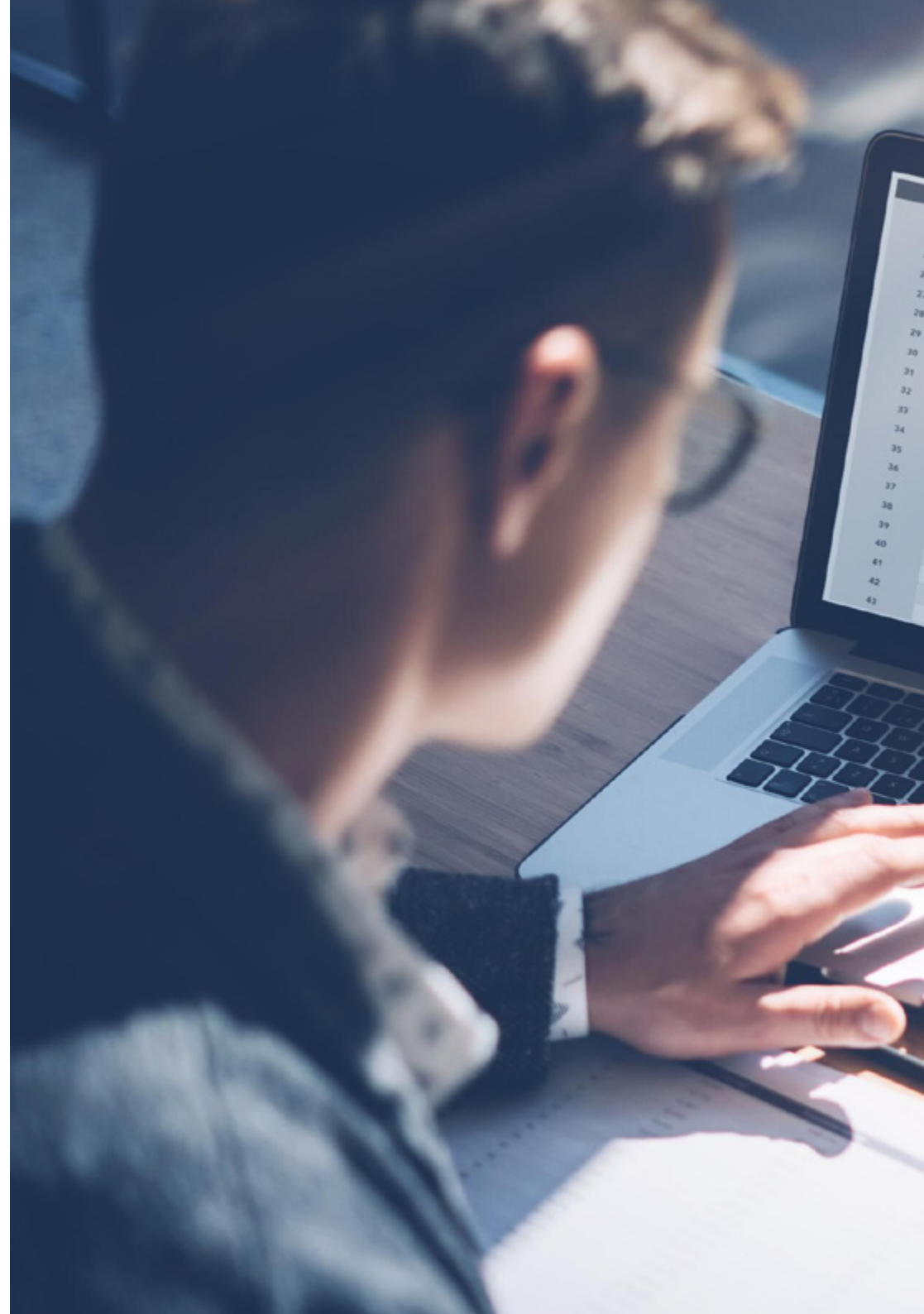


“

Access a syllabus developed by experts in the sector. Register now and have access 24 hours a day”

Module 1. IT Project Management and Control Using Business Intelligence

- 1.1. Business Intelligence
 - 1.1.1. Business Intelligence
 - 1.1.2. Data Management
 - 1.1.3. Data Life Cycle
 - 1.1.4. Architecture
 - 1.1.5. Applications
- 1.2. IT Projects Management Using Analytical Techniques
 - 1.2.1. Business Intelligence Selection
 - 1.2.2. Benefits of Business Intelligence for Projects
 - 1.2.3. Examples and Applications
- 1.3. Harvesting and Storage
 - 1.3.1. Business Models and Data Models
 - 1.3.2. Types of Storage
 - 1.3.3. Storing *Big Data* in the Cloud
- 1.4. Massive Data and Information Processing
 - 1.4.1. Types of Database Processing
 - 1.4.2. Techniques to Simplify Massive Processing
 - 1.4.3. Cloud Processing
- 1.5. Analytical Techniques
 - 1.5.1. Analytical Techniques
 - 1.5.2. Predictive Analyses
 - 1.5.3. Pattern Analysis and Recommendation
 - 1.5.4. Scalable Machine Learning
- 1.6. Visualization for Decision-Making
 - 1.6.1. Visualization and Data Analysis
 - 1.6.2. Tools
 - 1.6.3. Data Analysis Visualization
 - 1.6.4. Reports Design



Year	Age	Annual Savings	Cumulative Savings	Monthly Savings Goal
23	23	€2,453	€2,453	€204
24	24	€2,774	€5,227	€231
25	25	€2,857	€8,084	€238
26	26	€2,943	€11,027	€245
27	27	€3,031	€14,058	€253
28	28	€3,122	€17,180	€260
29	29	€3,216	€20,394	€268
30	30	€3,312	€23,706	€276
31	31	€3,411	€27,117	€284
32	32	€3,514	€30,629	€293
33	33	€3,619	€34,248	€302
34	34	€3,728	€37,976	€311
35	35	€3,840	€41,816	€320
36	36	€3,955	€45,771	€329
37	37	€4,073	€49,844	€339
38	38	€4,196	€54,040	€350
39	39	€4,321	€58,361	€360
40	40	€4,451	€62,812	€371
41	41	€4,585	€67,397	€382
42	42	€4,724	€72,121	€393
43	43	€4,867	€76,984	€404
44	44	€5,015	€81,989	€415
45	45	€5,167	€87,136	€426
46	46	€5,324	€92,424	€437
47	47	€5,486	€97,852	€448
48	48	€5,653	€103,421	€459
49	49	€5,825	€109,146	€470
50	50	€6,002	€115,028	€481
51	51	€6,185	€121,063	€492
52	52	€6,373	€127,258	€503
53	53	€6,567	€133,615	€514
54	54	€6,767	€140,132	€525
55	55	€6,973	€146,809	€536
56	56	€7,185	€153,634	€547
57	57	€7,403	€160,617	€558
58	58	€7,627	€167,744	€569
59	59	€7,857	€175,011	€580
60	60	€8,093	€182,424	€591
61	61	€8,336	€190,000	€602
62	62	€8,586	€197,736	€613
63	63	€8,843	€205,633	€624
64	64	€9,107	€213,740	€635
65	65	€9,379	€222,059	€646
66	66	€9,658	€230,597	€657
67	67	€9,945	€239,352	€668

- 1.7. Business Information Consumption
 - 1.7.1. Control Panel
 - 1.7.2. KPI Design and Extraction
 - 1.7.3. Geographic Information
- 1.8. Security and Governance
 - 1.8.1. Security
 - 1.8.2. Governance
- 1.9. Real Applications to IT Projects
 - 1.9.1. From Harvesting to Processing
 - 1.9.2. From Analysis to Visualization
- 1.10. Project Management
 - 1.10.1. Projects
 - 1.10.2. Requirements and Objectives
 - 1.10.3. Start-up and Implementation

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Be a great leader. Train yourself to succeed by making use of data from a business perspective”

05 Methodology

This training program offers 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.



A learning method that is different and innovative.

This intensive Information Technology program at TECH Technological 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 Technological 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 student 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 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.



Practising 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 Management and Control Using Business Intelligence guarantees, in addition to the most rigorous and up-to-date training, access to a qualification issued by TECH Technological University.



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

The **Postgraduate Certificate in IT Project Management and Control Using Business Intelligence** 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** diploma 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 Management and Control Using Business Intelligence**

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.

health future
confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge presence
online development languages
classroom



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