Postgraduate Certificate
Services and Solutions for the Digital Sector in Industry 4.0
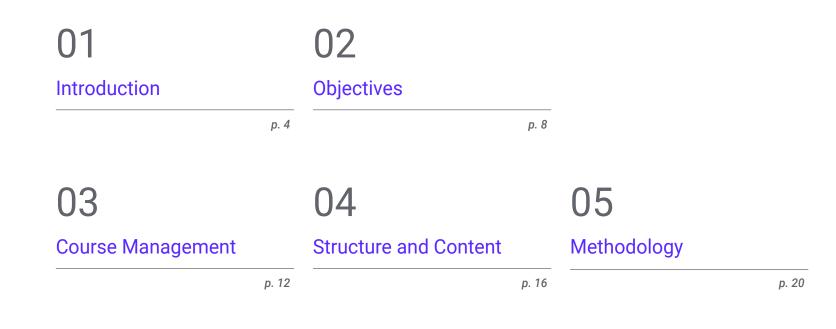
tec**h** global university

Postgraduate Certificate
Services and Solutions for the Digital Sector in Industry 4.0

» Modality: **online**
» Duration: **6 weeks**
» Certificate: **TECH Global University**
» Credits: **6 ECTS**
» Dedication: **16h/week**
» Schedule: **at your own pace**
» Exams: **online**

Website: **www.techtitute.com/us/artificial-intelligence/postgraduate-certificate/services-solutions-digital-sector-industry-4-0**

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01
Introduction

A new report by the National Observatory of Technology and Society shows that Artificial Intelligence is a key technology for business Digital Transformation. However, only 45% of Spanish institutions have specialists in this technological branch in their staff. Consequently, these companies are exposed to a considerable delay in the adoption of technologies and, therefore, to fall behind in the adoption of strategies that could improve both their efficiency and competitiveness. To avoid these serious repercussions, TECH is launching a university program focused on the most innovative Industry 4.0 solutions. Added to this is that it is based on a 100% online methodology, to provide greater convenience to students.

"You will lead Digital Transformation projects in industrial environments thanks to this program, with the maximum scientific rigor of an institution at the forefront of technology"

In a society characterized by the rise of Artificial Intelligence, professionals need to offer their customers the most sophisticated digital solutions of Industry 4.0. In this way, experts develop services characterized by both innovation and customization, helping them to differentiate themselves from their main competitors. For example, health and wellness companies can develop fitness apps to offer both exercise plans and individualized diets to help users improve their fitness. Even these systems can provide consumers with real-time feedback to help them. This implies a higher degree of customer satisfaction with the brand, thus establishing long-lasting relationships.

Given this situation, TECH is developing a Postgraduate Certificate in Services and Solutions for the Digital Sector in Industry 4.0. The academic itinerary will offer students the most cutting-edge sectorial services in the tertiary economic sector. To this end, the agenda will delve into the key aspects for digitalization processes in fields such as Smart Cities, Fintech, Smart Hospitals or E-Health, among others. It should be noted that the academic materials will analyze in detail new technological innovations and application trends. In this way, graduates will be able to take full advantage of the wide range of professional opportunities offered by the field of tertiary activities.

In addition, the curriculum will be based on the revolutionary Relearning method. This learning system is based on the repetition of the most relevant contents, so that they remain engraved in the students' memory in a progressive and natural way. This program will also offer various analyses of real cases, which will allow professionals to get closer to labor reality. Along the same lines, they will have access to an extensive digital library of audiovisual materials to reinforce their knowledge in a dynamic way.

This **Postgraduate Certificate in Services and Solutions for the Digital Sector in Industry 4.0** contains the most complete and up-to-date program on the market. The most important features include:

- The development of case studies presented by experts in Digital Transformation and Industry 4.0
- The graphic, schematic, and practical contents with which they are created, provide practical information on the disciplines that are essential for professional practice
- Practical exercises where the self-assessment process can be carried out to improve learning
- Its special emphasis on innovative methodologies
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection

" Access it from any electronic device with an Internet connection. Even from your smartphone!"

" *You will have the knowledge required to face the challenges of the labor market in the digital sector of the industry. You will adapt to constantly changing environments!"*

The program's teaching staff includes professionals from the sector who contribute their work experience to this 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 education programmed to learn 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 students will be assisted by an innovative interactive video system created by renowned and experienced experts.

Do you want to specialize in the E-Health industry? Develop the most innovative healthcare solutions with this program in just 150 hours.

You will be able to download all the didactic materials of this program, such as specialized readings and multimedia material, to view them whenever you need them.

02
Objectives

Upon completion of the university program, students will have a comprehensive approach to the key technologies that characterize the Fourth Industrial Revolution (among which Artificial Intelligence stands out). In this way, graduates will understand how enabling technologies are completely revolutionizing the tertiary economic sector, especially impacting areas such as transportation, healthcare and finance. All this will enable professionals to implement the most outstanding advances in the digital sector of Industry 4.0 in their projects. Undoubtedly, this will allow them to raise their career horizons to a higher level.

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Looking to experience a leap in quality in your professional career? Achieve it with this revolutionary learning program in 6 weeks"
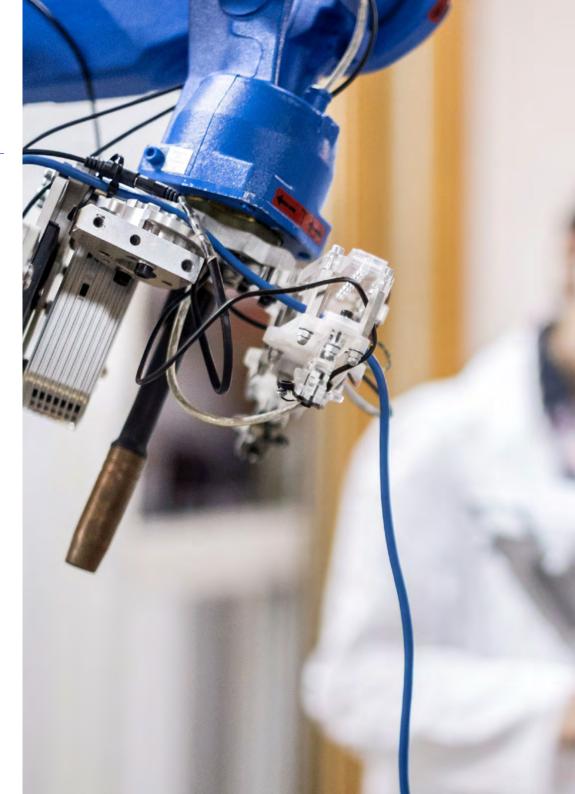
General Objectives

- Conduct a comprehensive analysis of the profound transformation and radical paradigm shift being experienced in the current global digitalization process

- Provide in-depth knowledge and the necessary technological tools to face and lead the technological leap and the challenges currently present in companies

- Mastering the digitalization procedures of companies and the automation of their processes to create new fields of wealth in areas such as creativity, innovation and technological efficiency

- Leading Digital Change

Specific Objectives

- Possess a thorough understanding of the technological impact and how technologies are revolutionizing the tertiary economic sector in the fields of transportation and logistics, health and healthcare (e-Health and Smart Hospitals), smart cities, the financial sector (Fintech) and mobility solutions
- Know the technological trends of the future

Refresh your knowledge in Smart Cities through innovative multimedia content, including interactive summaries of each topic"

03
Course Management

For the design and delivery of this Postgraduate Certificate, TECH has selected a first-class teaching staff. These professionals are highly specialized in the field of Artificial Intelligence and Industry 4.0. In fact, they have extensive professional experience in these technological branches, where they have been part of renowned digital companies. Committed to providing high quality services, they update their knowledge frequently to stay at the forefront of developments in these areas. Therefore, students have the guarantees they demand to expand their knowledge and improve their employability.

"

Leading experts in Industry 4.0 have joined forces in this university program to share with you the latest advances in this branch of technology"

Management

Dr. Segovia Escobar, Pablo

- Chief Executive of the Defense Sector in the Company Tecnobit of the Oesía Group
- Corporate Project Director Indra
- Master's Degree in Companies Administration and Management by the National University of Distance Education
- Postgraduate in Strategic Management Function
- Member of: Spanish Association of People with High Intellectual Quotient

Dr. Diezma López, Pedro

- Chief Innovation Officer and CEO of Zerintia Technologies
- Founder of the technology company Acuilae
- Member of the Kebala Group for business incubation and promotion
- Consultant for technology companies such as Endesa, Airbus or Telefónica
- Wearable "Best Initiative" Award in eHealth 2017 and "Best Technological "Solution" 2018 for occupational safety

04
Structure and Content

This university program will immerse students in a journey that will allow them to learn about the many solutions that Industry 4.0 brings to all industrial sectors. In this way, graduates will apply the most cutting-edge strategies to their daily practice in order to stand out in a booming field. To this end, the curriculum will analyze the key factors in the digitalization process, as well as the most innovative technological tools offered by Artificial Intelligence. It should be noted that the program will include a disruptive topic that will address the technological trends of the future, which will allow experts to design highly innovative solutions.
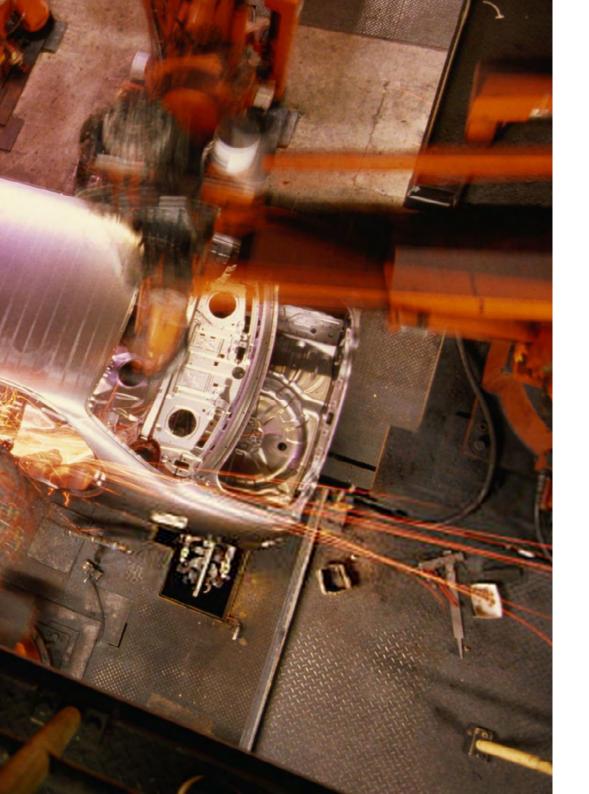
"The current importance of the Digital Transformation in companies makes this program a safe bet, with a market in constant growth and full of opportunities"

Module 1. Industry 4.0. Services and Solutions II

1.1.   Tertiary Sector Solutions
    1.1.1.   Tertiary Economic Sector
    1.1.2.   Characteristics of Each Subsector
1.2.   Digitalization of the Tertiary Sector: Transportation
    1.2.1.   Main Characteristics
    1.2.2.   Keys Factors of Digitization
1.3.   Digitization of the Tertiary Sector: e-Health
    1.3.1.   Main Characteristics
    1.3.2.   Keys Factors of Digitization
1.4.   Digitization of the Tertiary Sector: *Smart Hospitals*
    1.4.1.   Main Characteristics
    1.4.2.   Keys Factors of Digitization
1.5.   Digitization of the Tertiary Sector: *Smart Cities*
    1.5.1.   Main Characteristics
    1.5.2.   Keys Factors of Digitization
1.6.   Digitalization of the Tertiary Sector: Logistics
    1.6.1.   Main Characteristics
    1.6.2.   Keys Factors of Digitization
1.7.   Digitalization of the Tertiary Sector: Tourism
    1.7.1.   Main Characteristics
    1.7.2.   Keys Factors of Digitization
1.8.   Digitization of the Tertiary Sector: *Fintech*
    1.8.1.   Main Characteristics
    1.8.2.   Keys Factors of Digitization
1.9.   Digitalization of the Tertiary Sector: Mobility
    1.9.1.   Main Characteristics
    1.9.2.   Keys Factors of Digitization
1.10.   Future Technological Tendencies
    1.10.1.   New Technological Innovations
    1.10.2.   Application Trends

You will obtain a university program, specialized and adapted to your profession, that will allow you to provide the most innovative solutions to the digital sector"

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*"

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"

You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.

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

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. 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 professional reality is taken into account.

"

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

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.

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 one 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.

01 learning from evidence

02 relearning from evidence

03 testing

04 learning from an expert

05 neurocognitive context dependent learning

06 Von-Restorff effect

07 case based learning through storytelling

08 competencies testing (retesting)

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 skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.

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.

30%

10%

8%

20%

25%

4%

3%

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 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.

Certificate

The Postgraduate Certificate in Services and Solutions for the Digital Sector in Industry 4.0 guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.

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Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"

This program will allow you to obtain your **Postgraduate Certificate in Services and Solutions for the Digital Sector in Industry 4.0** 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 Services and Solutions for the Digital Sector in Industry 4.0**

ECTS: **6**

Official Nº of Hours: **150 h**.

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Mr./Ms. Cristian David Velasquez Granada, with identification document 31914606J
has successfully passed and obtained the title of:

Postgraduate Certificate in Services and Solutions for the Digital Sector in Industry 4.0

This is a program of 150 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
Chancellor

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 EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

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