

Postgraduate Certificate

Services and Solutions for the Digital Sector in Industry 4.0



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

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

Website: www.techtute.com/us/engineering/postgraduate-certificate/services-solutions-digital-sector-industry-4-0

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

Digital technologies are the present and future of cities, the healthcare sector and the banking sector. The advances achieved in recent times have made it possible to optimize energy consumption in cities, make more accurate diagnoses of pathologies or make payments with cell phones. This set of achievements has boosted the role of engineers, who are expected to provide more effective solutions to make people's lives easier. For this reason, TECH brings together the most advanced knowledge about the services and the different characteristics of Industry 4.0 in various sectors in this 100% online program. All of this is complemented by innovative multimedia material available 24 hours a day, 7 days a week.





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A 100% online Postgraduate Certificate that will allow you to take a step further in your professional career as an engineer in the field of Industry 4.0”

In this digital era, decision-making and efficient resource management through the use of the Internet of Things is already a reality. The applications of new technologies influence practically all sectors, with special emphasis on the tertiary sector, where health, tourism, economic-financial activity and logistics contribute to the development of both cities and people.

Given this reality, engineers have come to occupy a decisive role, given their technical knowledge and skills in the use of technological devices. In this context, this Postgraduate Certificate in Services and Solutions for the Digital Sector in Industry 4.0 was created by an excellent team of specialists with accumulated professional experience in this field.

It is an intensive program that will allow the graduate to obtain a very useful learning for their daily performance in projects focused on Smart Cities, Smart Hospitals, Fintech or E-Health, among others. In addition, it will do so through first class pedagogical tools such as multimedia pills, videos in detail, specialized readings or simulations of case studies.

All this, only 6 weeks duration and with a Relearning method that will allow the student to reduce the long hours of study and memorization, by having a continuous reiteration of the key concepts throughout the program.

In this way, the engineer has before them a unique qualification that not only provides them with knowledge, but also adapts to their daily schedule. And the fact is that, with no classroom or class timetables, the student will have greater freedom to access the program at any time of the day and from a digital device with an Internet connection.

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 scientific and practical information on the disciplines that are essential for professional practice
- ◆ Practical exercises where self-assessment can be used 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



If you have a cell phone with an internet connection, you will be able to comfortably access the advanced syllabus of this university proposal"

“

Delve, whenever and wherever you want, into the main features of digitazization in the transport sector”

The program’s teaching staff includes professionals from the field who contribute their work experience to this educational 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.

Reduce the hours of memorization thanks to the Relearning method used by TECH in all its programs.

Learn more about the key factors in the digitization of Smart Cities with the best didactic material.



02 Objectives

Upon completion of the 150 teaching hours of this program, students will have gained advanced knowledge about Services and Solutions for the Digital Sector in Industry 4.0. In order to successfully achieve this goal, the content has a theoretical-practical approach, which will allow the student to integrate the most well-known advances in this field into their projects, as well as the most effective digitalization methodologies for Smart Cities, Fintech or Smart Hospitals, among others.



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Increase your scope of action in digitization processes in the banking or logistics sector”



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
- ◆ Knowing the technological trends of the future



Do you want to keep up to date with the advances in Smart Hospitals and future challenges? Enroll now in this university degree"

03

Course Management

TECH has brought together in this qualification an excellent teaching staff made up of specialists in Industry 4.0 and in the leadership of digital transformation projects. Thanks to their extensive knowledge in this field, the graduate will have access to a high quality syllabus, which will allow them to obtain a close and real vision of the implications of technology in the tertiary sector.





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Solve any doubts you may have about the syllabus with the best teachers specialized in Industry 4.0”

Management



Mr. 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



Mr. 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

The syllabus of this program provides students with an in-depth understanding of the multiple options and solutions provided by Industry 4.0 in key areas such as healthcare, tourism, and banking. To this end, the graduate also has access to high quality multimedia teaching resources and specialized readings, with which they can further extend the information provided in this program. Undoubtedly, it is a unique opportunity to obtain a learning experience that enhances the performance capabilities of engineers in this field.



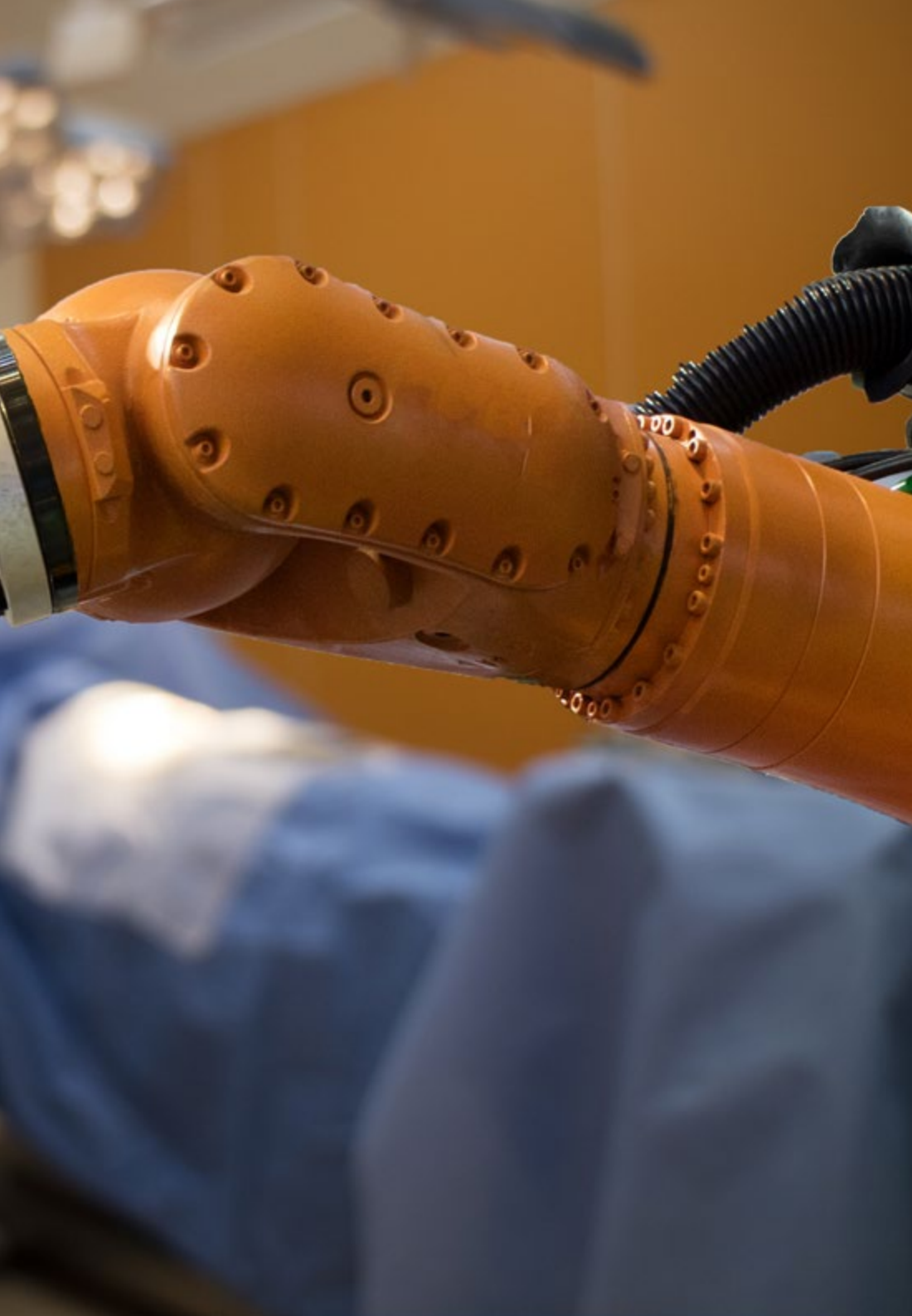
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A complete curriculum that will allow you to be up-to-date on Industry 4.0 and the solutions it brings to the tertiary sector"

Module 1. Industry 4.0 Industry - 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





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This Postgraduate Certificate will help you keep abreast of current and future technological trends. Enroll now”

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.





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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 is the most widely used learning system in the best faculties in the world. 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 program, the studies 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 8 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.



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.



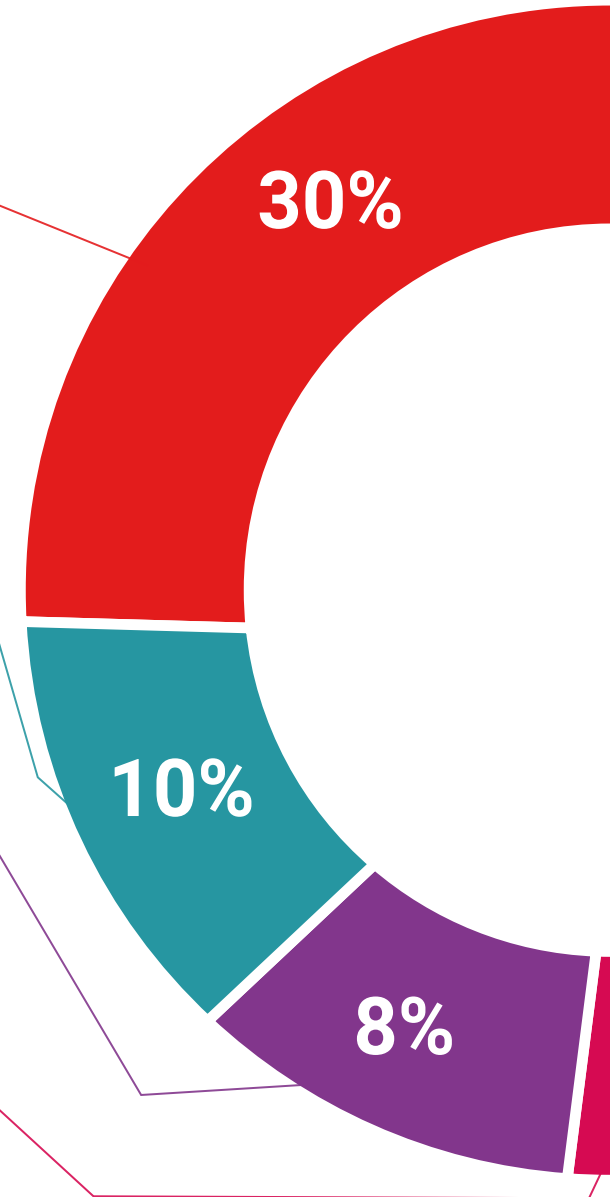
Practising Skills and Abilities

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.





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.



06

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 **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.

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 Services and Solutions for the Digital Sector in Industry 4.0**

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.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning



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