Postgraduate Certificate
IoT in the Industry

tech technological university

Postgraduate Certificate
IoT in the Industry

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

Website: **www.techtitute.com/pk/information-technology/postgraduate-certificate/iot-industry**

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01
Introduction

The Internet of Things (IoT) is an area of work that is as innovative as it is versatile, providing better visibility and insight into a company's operations and assets through the integration of machine sensors, software programs, computer systems and cloud storage. This 100% online training prepares the student to acquire the necessary skills to work in this field. You will also develop a global vision and specialized knowledge to design IoT architectures that guarantee, in any project phase, the harvesting and processing of data in the right way to achieve the project objectives.

"*It addresses an area of work that is as innovative as it is versatile, the Internet of Things, from home automation to industrial sectors and security*"

In the era of digital industrialization, companies have begun to increase their investments in tools and solutions so that their processes, systems, workers and products are integrated into a single data collection and analysis chain. For this reason, the initial basis for the digitization of a company is the Internet of Things (IoT). This Diploma develops the different options available in the market at the moment and deepens in the global structure of an IoT project according to the sector.

This training also analyzes the different data architecture options, as well as the methodology to carry out a good project development. The graduate acquires a technical-practical vision, approach and management of IoT projects. It integrates devices of very different natures for the collection of information, and in addition to the technical component, it is essential to apply appropriate methodologies for the proper management of this type of project.

Additionally, the student has the best study methodology 100% online, which eliminates the need to attend classes in person or have to comply with a predetermined schedule. To this end, in only 6 weeks will delve into the scope of application of The Internet of of Things, understanding the competitive advantages they provide, so they will be positioned at the technological forefront and will be able to lead ambitious projects in the present and in the future.

This **Postgraduate Certificate in IoT in the Industry** 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 IoT in Industry
- 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 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

You are looking at a high-level program, aimed at those computer who want to lead the digital transformation and evolution in the world"

Develop the ability to be innovative in the market, change people's lives as an active part of the real digital transformation"

Delve into the scope of IoT applications by understanding the competitive advantages it brings, and position yourself at the technological forefront.

analyzes the different data architecture options, as well as the methodology to carry out a good project development.

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.

02
Objectives

The main objective of this Diploma at the forefront of global digitization is to make a technical immersion in the Internet of Things, one of the most relevant technologies that will play a major role in technological advances in the coming years. The direct application of the knowledge acquired about IoT in real projects is an added professional value that very few computer scientists can offer, so the possibilities for professional growth of the students of this degree are immense.
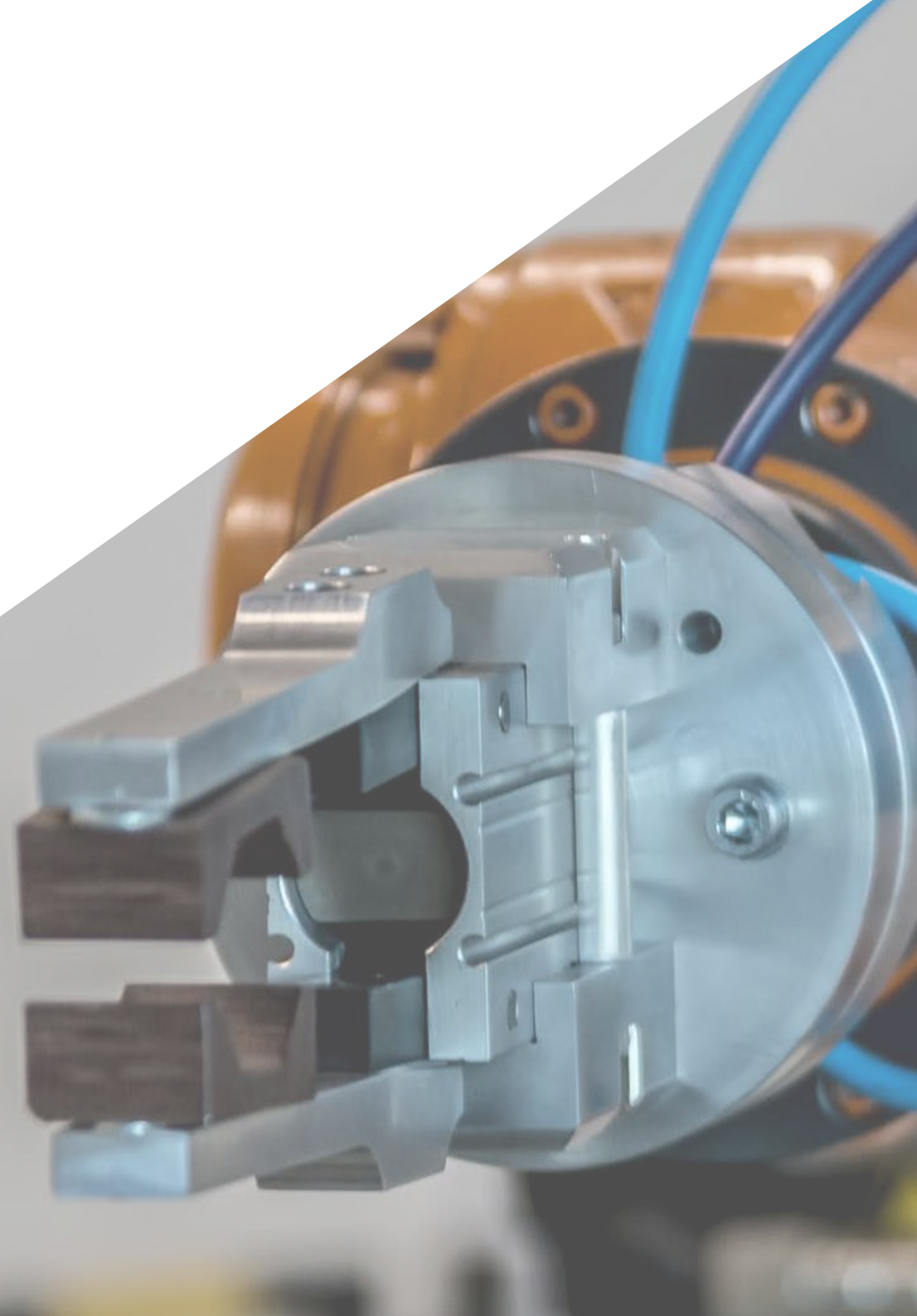
Acquire the ability to quantify not only the IoT value contribution to society, but also to quantify economically this type of technology"

General Objectives

- Establish the basis for a correct foundation in the IoT, EIoT and IIoT field
- Analyze the different options available in the market
- Propose different IoT project development possibilities to evaluate each situation with the knowledge acquired
- Acquire a global vision of the IoT project, as the project as a whole provides greater added value

" This program will generate in you specialized knowledge so that you become a professional catalyst of the technologies of the future"

Specific Objectives

- Establish the appropriate criteria to start and manage a project in an IoT environment

- Analyze the most relevant IoT La architecture techniques

- Examine, in-depth, the existing free software options

- Delve into all areas where technology can be added to connected objects

- Monitor projects through a Dashboard

- Acquire the ability to quantify not only the IoT value contribution to society, but also to quantify economically this type of technology

03
Course Management

Professional in the field of Internet of Things technologies come together in this Professional Master's Degree to teach graduates the newest technologies and areas of study and the most disruptive and surprising practical applications that can be found. The teachers will give the keys and tools that are in their hands for the computer scientist to analyze cases of demo and predictive maintenance, also attending to the approach of an IoT project.

Train with experts who use IoT in their daily lives and give your career a boost"

Management

Mr. Molina Molina, Jerónimo

- Head of the Artificial Intelligence Department at Ibermática
- IA Engineer & Software Architect at NASSAT - Internet Satellite in Motion
- Senior Consultant at Hexa Ingenieros. Introducer of Artificial Intelligence (ML and CV)
- Expert in Artificial Intelligence Based Solutions, in the fields of Computer Vision, ML/DL and NLP
- Expert in Business Creation and Development at Bancaixa - FUNDEUN Alicante
- Computer Engineer from the University of Alicante
- Master's Degree in Artificial Intelligence from the Catholic University of Avila
- Executive MBA (European Business Campus Forum)

Professors

Mr. Viguera Gallego, Ander
- Process Engineer at Integral Rings
- VSM Engineer in the Small Spans line for Safran ITP Aero Castings
- VSM Engineer in the structural rings line for PWA & RR ITPAero Castings
- Industry 4.0 & IIoT Focal Point at ITPAeroCastings (Sestao)
- Graduate in Industrial Organization Engineering from ETSI Bilbao
- Master's Degree in Industrial Organization Engineering by ETSI Bilbao
- Master's degree in Industrial Strategy and Organization, ESTIA Institute of technology, Bidart
- Master's Degree in Artificial Intelligence from the Catholic University of Avila

04
Structure and Content

This Diploma brings together in one module specialized knowledge on the different options offered by the Internet of Things (IoT) in the industry. It also develops the different options available on the market at this time and delves into the overall structure of an IoT project according to the sector, since the initial design must ensure the scalability and evolution of this. All this from a practical and innovative business perspective, thereby ensuring that the contents have a highly practical focus.

develops the different options available in the market at the moment and deepens in the global structure of an IoT project"

This Diploma offers a complete and specialized vision of IoT, as well as an advanced knowledge of data architecture"

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%
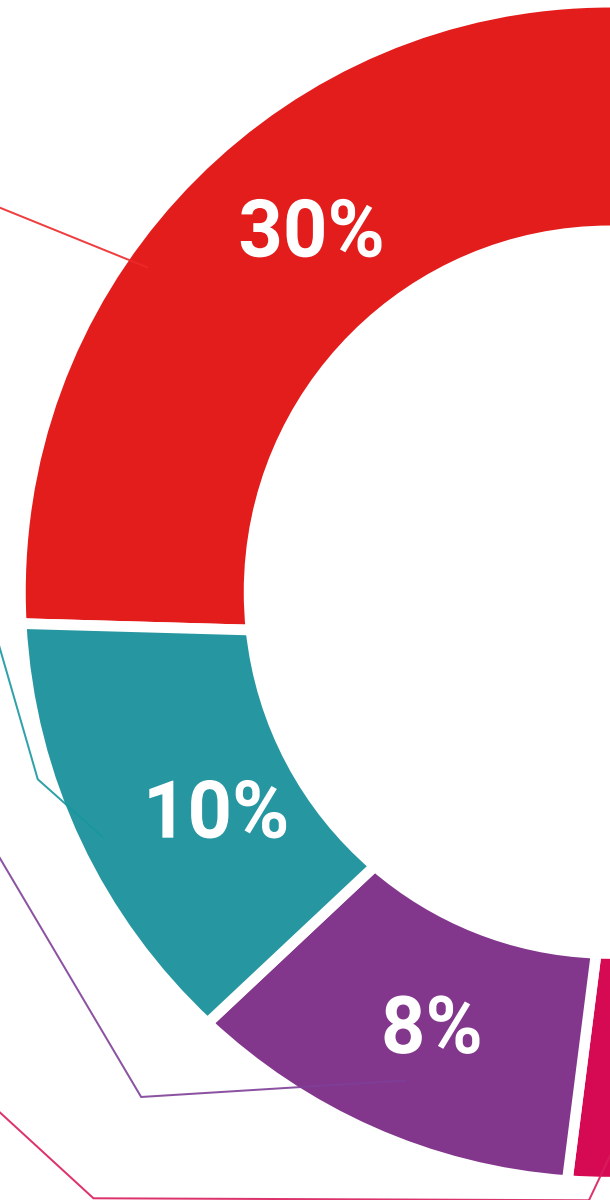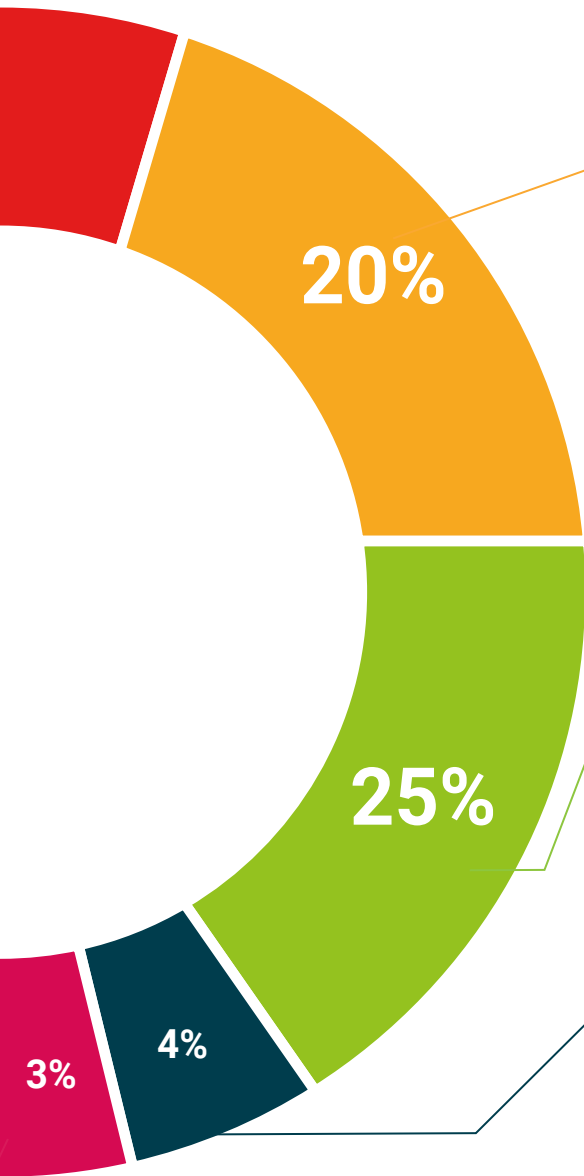
Case Studies

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.

06
Certificate

The Postgraduate Certificate in IoT in the Industry 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 IoT in the Industry** 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 certificate ssued 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 IoT in the Industry**

Official Nº of Hours: **150 h.**

tech technological university

Awards the following
CERTIFICATE
to
Mr./Ms. _____, with identification number _____.
For having passed and accredited the following program

POSTGRADUATE CERTIFICATE
in

IoT in the Industry

This is a qualification awarded by this University, equivalent to 150 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
Dean

Unique TECH Code: AFWORD23S   techtitute.com/certificates

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

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