



Postgraduate Certificate Robotics, Drones and Argumented Workers

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/engineering/postgradute-certificate/robotics-drones-and-argumented-workers

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> 06 Certificate





tech 06 | Introduction

In recent years, the technological revolution has allowed the development and improvement of Robots and Drones with applications in all economic sectors. In this way, the role of the engineer has acquired greater relevance, given their skills for their use in infrastructure inspection tasks, automation of manufacturing processes or monitoring of construction projects.

Therefore, given the continuous evolution in these areas, companies demand specialized profiles with a great mastery and knowledge of these devices, as well as the challenges and opportunities they offer. In this sense, TECH has decided to create this Postgraduate Certificate in Robotics, Drones and Argumented Workers of only 6 weeks duration.

This program brings together the most rigorous and current information on the understanding of RPA (Robotic Process Automation), the implementation of RaaS in companies, the applications of Drones or the integration of Argumented Workers, all this, in addition, complemented with the best teaching tools based on video summaries, videos in detail, specialized readings and case studies.

Likewise, the graduate will not have to invest a great amount of hours memorizing content, since the Relearning method used by this academic institution leads students to focus their efforts on the key elements of this teaching.

Undoubtedly, the engineer is facing an ideal opportunity to increase their capacity for action in their sector through an academic option that can be taken comfortably, whenever and wherever they wish. You only need an electronic device with an Internet connection (mobile, tablet or computer) to be able to visualize, at any time, the syllabus of this program. In this way, you will be able to self-manage your study time more easily and combine your daily personal activities with an avant-garde university proposal.

This **Postgraduate Certificate in Robotics, Drones and Argumented Workers** contains the most complete and up-to-date academic program on the market. Its most notable features are:

- 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



With this qualification, you will master all the phases of prototyping"

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.

Explore the evolution of Drones and their multiple applications from the comfort of your home.

Enroll now in a program that will increase your knowledge of Argumented Worker.







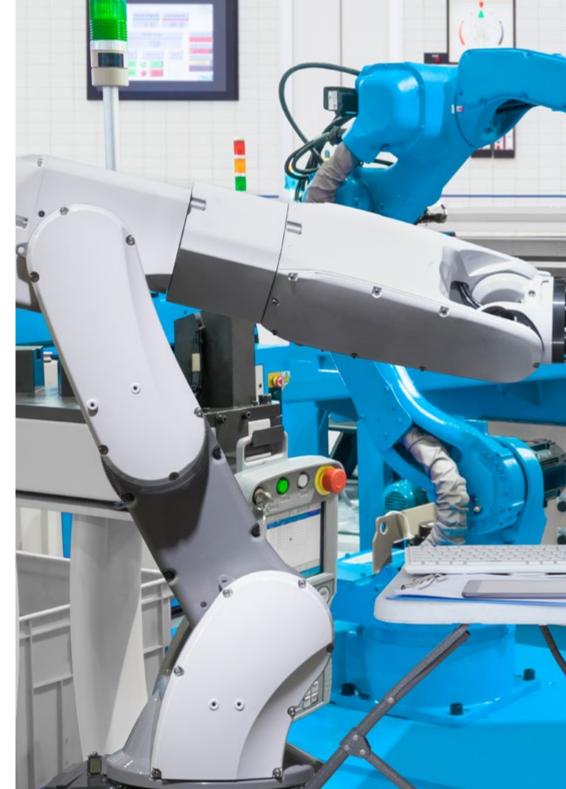
tech 10 | Objectives



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









Specific Objectives

- Entering the world of robotics and automation
- Choose a robotic platform, prototype and know about simulators and robot operating system (ROS) in detail
- Delve into in the applications of artificial intelligence to robotics oriented to predict behaviors and optimize processes
- Study robotics concepts and tools, as well as use cases, real examples and integration with other systems and demonstration
- Analyze the most intelligent robots that will accompany us in the coming years and how humanoid machines will be trained to perform in complex and challenging environments





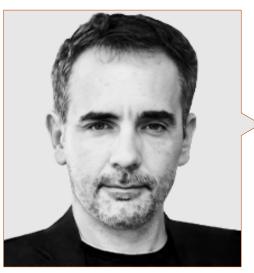


Management



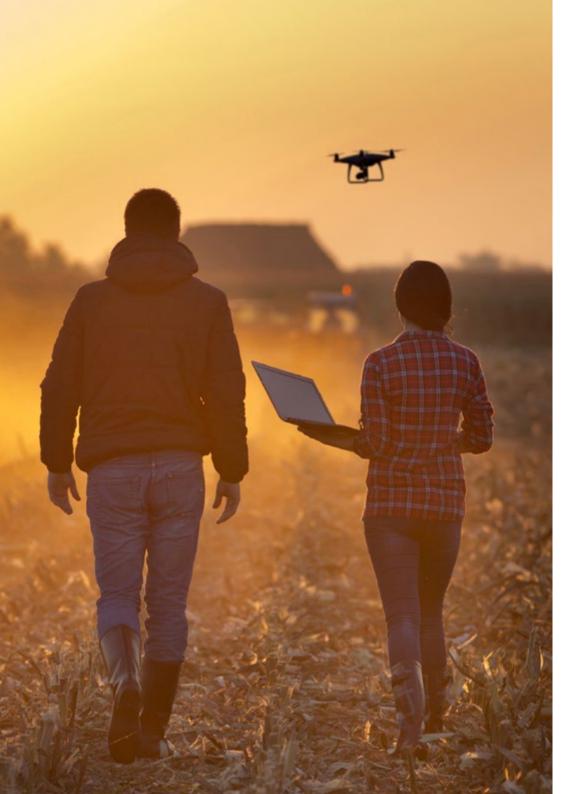
Mr. Segovia Escobar, Pablo

- 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 the English 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.





Get trained at the one of the world's leading private online universities" leading private online universities"

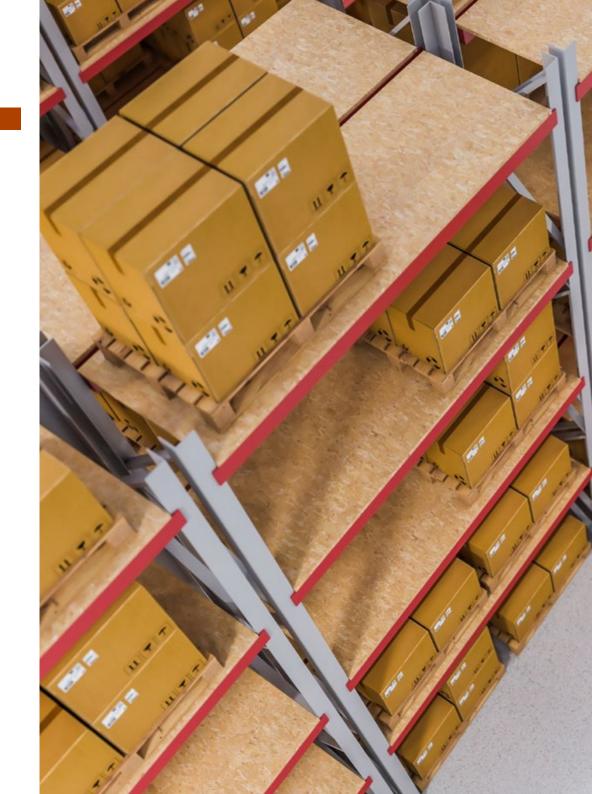




tech 18 | Structure and Content

Module 1. Robotics, Drones and Argumented Workers

- 1.1. Robotics
 - 1.1.1. Robotics, Societies and Cinema
 - 1.1.2. Components and Parts of Robot
- 1.2. Robotics and Advanced Automation: Simulators, Cobots
 - 1.2.1. Transfer of Learning
 - 1.2.2. Cobots and Case Uses
- 1.3. RPA (Robotic Process Automatization)
 - 1.3.1. Understanding RPA and its Functioning
 - 1.3.2. RPA Platforms, Projects and Roles
- 1.4. Robot as a Service (RaaS)
 - 1.4.1. Challenges and Opportunities for Implementing RaaS Services and Robotics in Enterprises
 - 1.4.2. Functioning of a RaaS system
- 1.5. Drones and Automated Vehicles
 - 1.5.1. Components and Drones Operation
 - 1.5.2. Uses, Types and Applications of Drones
 - 1.5.3. Evolution of Drones and Autonomous Vehicles
- 1.6. The Impact of 5G
 - 1.6.1. Evolution of Communications and Implications
 - 1.6.2. Uses of 5G Technology
- 1.7. Augmented Workers
 - 1.7.1. Human-Machine Integration in Industrial Environments
 - 1.7.2. Challenges in Worker-Robot Collaboration
- 1.8. Transparency, Ethics and Traceability
 - 1.8.1. Ethical Challenges in Robotics and Artificial Intelligence
 - 1.8.2. Monitoring, Transparency and Traceability Methods
- 1.9. Prototyping, Components and Evolution
 - 1.9.1. Prototyping Platforms
 - 1.9.2. Phases to Make a Prototype
- 1.10. Future of Robotics
 - 1.10.1. Trends in Robotization
 - 1.10.2. New Types of Robots

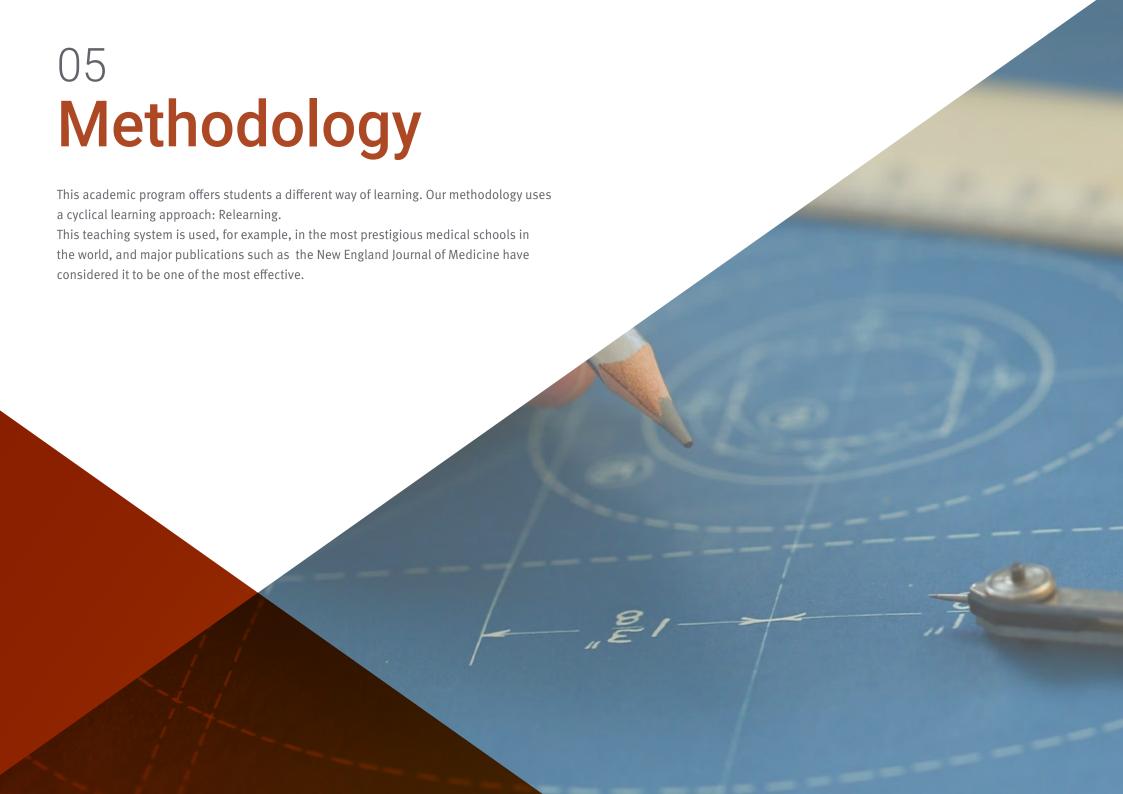






You will face the future challenges posed by robotization in industry with greater assurance of success"







tech 22 | Methodology

Case Study to contextualize all content

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.





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.

tech 24 | Methodology

Relearning Methodology

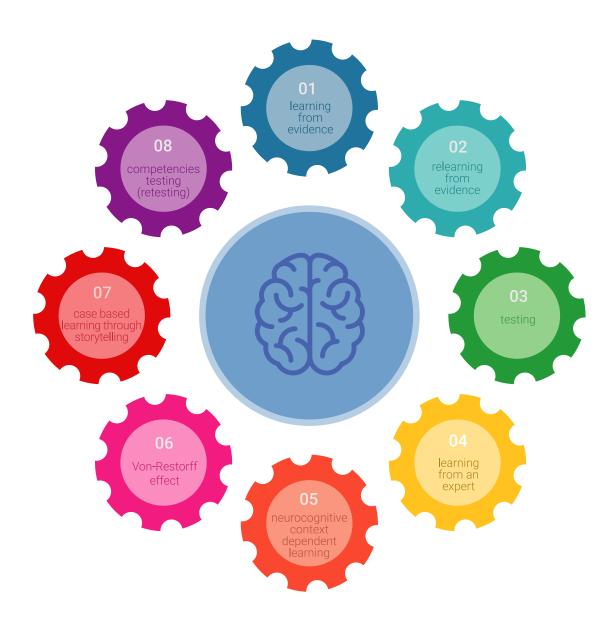
TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

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 prepare the executives of the future. This method, at the forefront of international teaching, is called *Re*-learning.

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.



Methodology | 25 tech

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 prepared 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 education, 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 adapted in 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.



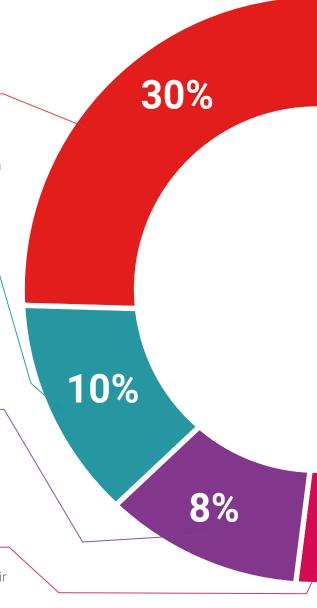
Practicing Skills and Abilities

They will carry out activities to develop specific competencies and skills in each thematic field. 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.



Methodology | 27 tech



25%

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 assess and re-assess students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.







tech 30 | Diploma

This program will allow you to obtain your **Postgraduate Certificate in Robotics, Drones** and **Argumented Workers** 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 Robotics, Drones and Argumented Workers

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



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

Postgraduate Certificate in Robotics, Drones and Argumented Workers

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



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