



Postgraduate Certificate Geographic Information Technology for Drones

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/in/engineering/postgraduate-certificate/geographic-information-technology-drones

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tech 06 | Introduction

The emergence of drones has changed the world of aeronautics. Drone technology is advancing at great speed, evolving much faster even than mobile technology. This technology has advanced so much that, nowadays, there are drones with more than 20 hours of flight autonomy.

Moreover, the advance of drones implies a growing need for pilots to train in their use. Flying a drone for entertainment purposes is not the same as flying a high value drone for specialized operations. That is why this intensive training is so vital, as it will provide professionals with the specialization that they need.

This program is aimed at those interested in attaining a higher level of knowledge of Geographic Information Technology for Drones. The main objective is for students to specialize their knowledge in simulated work environments and conditions in a rigorous and realistic manner so they can later apply it in the real world.

In addition, as it is an 100% online program, students are not constrained by fixed timetables or the need to commute to another physical location, rather, they can access the contents at any time of the day, balancing their professional or personal life with their studies.

This **Postgraduate Certificate in Geographic Information Technology for Drones** contains the most complete and up-to-date academic program on the market. The most important features include:

- Practical cases presented by experts in Geographic Information Technology for Drones
- The graphic, schematic, and eminently 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
- Special emphasis on innovative methodologies in Geographic Information Technology for Drones
- 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



Do not miss the opportunity to take this
Postgraduate Certificate in Geographic
Information Technology for Drones at TECH.
It's the perfect opportunity to advance your
career"



This Postgraduate Certificate is the best investment you can make when choosing a refresher program to update your existing knowledge of Geographic Information Technology for Drones"

The teaching staff includes professionals in the field of Geographic Information Technology for Drones, who bring their 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 training programmed to train in real situations.

The design of this Program focuses on Problem-Based Learning, by means of which the professional will have to try to solve the different situations of Professional Practice, which will be posed throughout the Program. For this purpose, the professional will be assisted by an innovative, interactive video system created by renowned and experienced experts in Geographic Information Technology for Drones.

This program comes with the best educational material, providing you with a contextual approach that will facilitate your learning.

This 100% online program will allow you to balance your studies with your professional life. You choose where and when to train.







tech 10 | Objectives



General Objectives

- Specify and establish a joint vision of unmanned aviation in the world and, more specifically, in Europe and the USA
- Delimit the roles of different types of pilots: professional and sport pilots
- Characterize unmanned aerial platforms from a pragmatic point of view
- Apply inspection, checks, adjustments and substitution procedures in assemblies, elements, parts and indication systems to perform scheduled and corrective maintenance, both in an unmanned aerial platform and in the necessary accessory elements, such as ground stations, or accessories such as the payloads
- Select the procedures established in the maintenance manuals to store elements, parts and systems, including energy sources
- Apply the procedures established in maintenance manuals to perform weighing operations and aircraft payload calculations
- Analyze the management and organization models used in aeronautical maintenance
- Apply warehouse management techniques for stock control
- Perform the actions derived from the procedures established by the company to perform operations in manufacturing and assembly processes
- Evaluate situations of occupational risk prevention and environmental protection, proposing and applying prevention and protection measures, personal and collective, according to the applicable regulations in work processes, to ensure safe environments
- Identify and propose the professional actions necessary to respond to universal accessibility and "design for all"

- Detail the use and application of drones in technological engineering activities as specified in the RD 1036 (Royal Decree 1036/2017):
- Identify and apply quality parameters in the work and activities performed during the learning process to assess the culture of assessment and quality and to monitor and improve quality management procedures
- Specify the operations aeronautical operators perform Detail the internal and management operations of this "small airline" in relation to the aeronautical authority
- Use procedures related to entrepreneurial culture, business and professional initiative to carry out basic small company management or start a new business
- Recognize the rights and duties of an active agent in society, taking into account the legal framework that regulates social and working conditions, in order to participate as a democratic citizen



Specific Objectives

- Implement technology for spatial data collection
- Manage spatial data, sources and resources
- Develop coordinate systems and data formats
- Detail geographic information systems with drones
- Design specific missions for land use management and land use planning



Join us and we will help you achieve professional excellence"







tech 14 | Course Management

Management



Mr. Pliego Gallardo, Ángel Alberto

- Airline Transport Pilot ATPL (A)
- PPL (A), ULM, RPAS Pilot
- RPAS theoretical and practical instructor and examiner
- University Professor UNEATLANTICO
- University Diploma, Secretary of State for Universities and Research
- Professor of Aircraft Maintenance European Social Fund Course (TMVVO004PO) FEMPA Business School 2019
- EP Teacher, University of Alicante
- CAP in Technology, University of Alicante
- EASA Authorized Operator
- EASA Authorized RPAS Manufacturer



Mr. Bazán González, Gerardo

- Electronic Engineer
- Specialist in aerial works, Spain and Latin America
- Expert in Large Accounts and Institutional
- RPAS Pilot



Mr. Saiz Moro, Víctor

- Industrial Technical Engineer
- RPAS Pilot
- RPAS theoretical and practical instructor
- EASA Authorized Operator
- EASA Authorized RPAS Manufacturer
- Specialist and expert in aeronautical consultancy

Professors

Mr. Buades Blasco, Jerónimo

- Geographer
- Specialist in Information Systems and Environment
- CAP, University of Alicante
- RPAS Pilot

Structure and Content

The structure of the contents has been designed by the best professionals in the from the engineering sector, with extensive experience and recognized prestige in the profession



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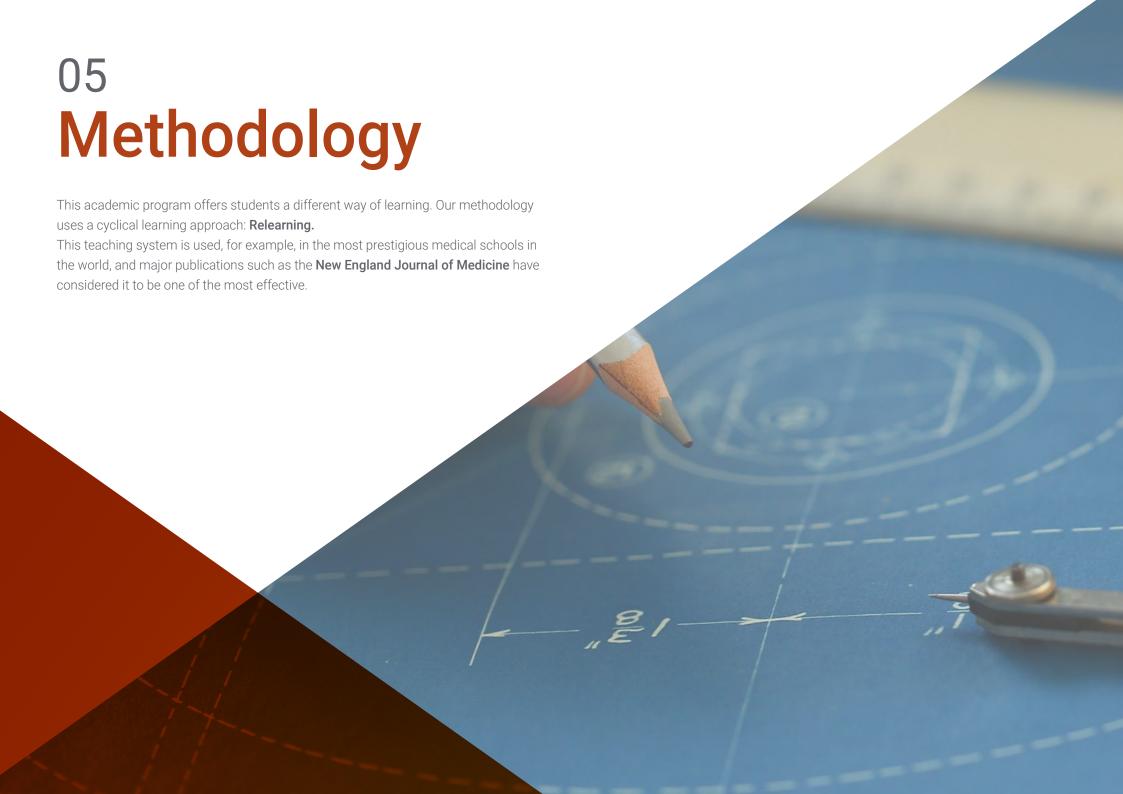
Module 1. Geographic Information Technology for Drones

- 1.1. Geographic Information Technology Features
 - 1.1.1. Geographic Information Technologies
 - 1.1.2. Spatial Planning and Management
- 1.2. Hardware and Software: Implementing Spatial Data
 - 1.2.1. Physical Hardware Resources Applied to Work with RPAS
 - 1.2.2. Logical Software Resources for Data Processing
- 1.3. The Quality of Spatial Data: Data Sources and Resources
 - 1.3.1. Notions on Spatial Data
 - 1.3.2. Spatial Data Infrastructure (SDI)
 - 1.3.3. National Geographic Information Center (CNIG)
- 1.4. Coordinate Systems and Data Formats
 - 1.4.1. Geographic Coordinates (Latitude, Longitude vs. UTM)
 - 1.4.2. Vector and Raster Data
- 1.5. Geographic Information Systems (GIS) and RPAS
 - 1.5.1. GIS
 - 1.5.2. Implementing RPAS Data in GIS
- 1.6. Applying GPS and GIS to Produce Spatial Data
 - 1.6.1. Spatial Database Management
 - 1.6.2. Interoperability between Data Management Devices
- 1.7. Practical Applications for Property Development and Management
 - 1.7.1. Real Estate Registry
 - 1.7.2. The Geographic Information System for Agricultural Plots (SIGPAC)
- 1.8. Practical Applications for Land Use Planning and Management
 - 1.8.1. Landscape and Land Use
 - 1.8.2. ICT and Land Use Analysis
 - 1.8.3. CORINE Land Cover (Coordination of Information on the Environment)
 - 1.8.4. Information System on Land Occupation in Spain (SIOSE)
- 1.9. Protected Natural Spaces
 - 1.9.1. Conditions of RPAS Use in Protected Natural Spaces
- 1.10. RPAS and GIS Project Planning for Land Use Planning and Management
 - 1.10.1. Project Planning Techniques and Methods











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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.

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 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.



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 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.

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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.

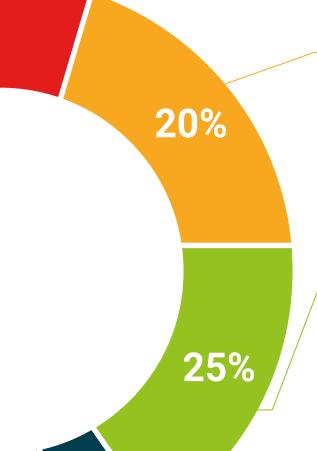


Additional Reading

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.



Methodology | 27 tech



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

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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.





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This **Postgraduate Certificate in Geographic Information Technology for Drones** 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 issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by job markets, competitive examinations and professional career evaluation committees.

Title: Postgraduate Certificate in Geographic Information Technology for Drones
Official Number of Hours: 150 h.



technological university

Postgraduate Certificate

Geographic Information Technology for Drones

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

