

Postgraduate Certificate

Active Principles of Plants,
Pharmaceutical Forms and
Galenic Preparations





Postgraduate Certificate

Active Principles of Plants, Pharmaceutical Forms and Galenic Preparations

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH - Technological University**

6 ECTS Credits

Teaching Hours: **150 hours.**

Website: techtitute.com/us/pharmacy/postgraduate-certificate/active-principles-plants-pharmaceutical-forms-galenic-preparations

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01

Introduction

The work of the pharmacist in phytotherapy requires the most extensive knowledge of active ingredients as a basis to be able to act with solvency in this field. In this course you will also learn about the existing pharmaceutical forms and how to prepare galenicals with the safety required for this type of work.



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Learn how to perform phytotherapy galenicals safely with the most comprehensive knowledge of active ingredients and pharmaceutical forms"

There is now a scientific basis supporting the efficacy of many phytotherapeutic products for certain indications. The place that phytotherapy should occupy in therapeutics should be that for which it has demonstrated its usefulness and safety.

Efficacy is achieved only with the proper use of phytotherapeutic preparations, both in terms of indications and form of administration.

This program offers a current vision of Phytotherapy and its application in the health field, including the latest contributions and advances. The contents are guaranteed by the teaching staff involved in the Postgraduate Certificate, since in one way or another they all work in the field of phytotherapy or are related to it. Thus, the student will learn based on the experience of the teachers and experience evidence-based medicine, which results in the student's training to be more effective and accurate. On the one hand, the different university training programs generally suffer from a deep and profound lack of

continuously updated training in Phytotherapy, and on the other hand that current health trends are leaning towards the use of safe and effective natural remedies, it is necessary to be able to offer the student the possibility of expanding their knowledge and therapeutic skills with a greater specialization in the use of medicinal plants, from the professional and academic perspective necessary to adequately face their future in this field.



A high quality step for the more specialized pharmacy professional"

This ONLINE COURSE offers you the characteristics of a high level scientific, teaching and technological course. These are some of its most notable features:

- ♦ Latest technology in online teaching software.
- ♦ Highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand.
- ♦ Practical cases presented by practising experts.
- ♦ State-of-the-art interactive video systems.
- ♦ Teaching supported by telepractice.
- ♦ Continuous updating and recycling systems.
- ♦ Self-regulating learning: full compatibility with other occupations.
- ♦ Practical exercises for self-evaluation and learning verification.
- ♦ Support groups and educational synergies: questions to the expert, debate and knowledge forums.
- ♦ Communication with the teacher and individual reflection work.
- ♦ Content that is accessible from any fixed or portable device with an Internet connection.
- ♦ Supplementary documentation databases are permanently available, even after the course.

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Our innovative telepractice concept will give you the opportunity to learn through an immersive experience, which will provide you with a faster integration and a much more realistic view of the contents: “learning from an expert”

Our teaching staff is composed of medical professionals, practising specialists. In this way, we ensure that we provide you with the training update we are aiming for. A multidisciplinary team of doctors trained and experienced in different environments, who will develop the theoretical knowledge in an efficient way, but, above all, will bring their practical knowledge derived from their own experience to the course: one of the differential qualities of this training.

This mastery of the subject matter is complemented by the effectiveness of the methodological design of this course. Developed by a multidisciplinary team of e-learning courses, it integrates the latest advances in educational technology. This way, you will be able to study with a range of comfortable and versatile multimedia tools that will give you the operability you need in your training.

The design of this program is based on Problem-Based Learning: an approach that conceives learning as a highly practical process. To achieve this remotely, we will use telepractice: with the help of an innovative interactive video system, and learning from an expert, you will be able to acquire the knowledge as if you were actually dealing with the scenario you are learning about. A concept that will allow you to integrate and fix learning in a more realistic and permanent way.

This course allows training in simulated environments, which provide immersive learning programmed to train for real situations.

With a methodological design based on proven teaching techniques, this course will take you through different teaching approaches to allow you to learn in a dynamic and effective way.



02 Objectives

This Postgraduate Certificate will allow you to define the limits of the use of phytotherapy to be able to manage it safely with the patient, so that you can make the appropriate decisions to use it preventively and therapeutically.





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With an objective focused on practice, this course will allow you to act with the solvency of an expert in the management of phytotherapy resources”



General Objectives

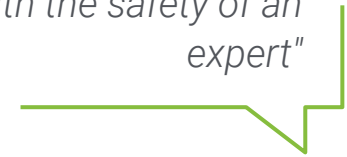
- ♦ Define the therapeutic limits of phytotherapy and recognize the cases in which it can be used safely.
- ♦ Describe the use of Phytotherapy oriented to the satisfaction of the needs derived from the patient's health problems and the prevention of complications, guaranteeing a safe and quality practice.
- ♦ Solve cases related to the field of phytotherapy.
- ♦ Explain the use and indication of medical devices, food supplements and/or drugs, assessing the expected benefits and associated risks.
- ♦ Apply theoretical knowledge in daily practice.



Specific Objectives

- ♦ Explain the application of the magistral formulation in Phytotherapy.
- ♦ Explain the industrial processing of herbal medicines.
- ♦ Define the main groups and properties in relation to the active ingredients.
- ♦ Define the therapeutic application of phenols, flavonoids, tannins, isoprenoids, resins, alkaloids and other products.

Learn the usefulness of the different possibilities of the active principles of phytotherapy and start preparing your own galenicals with the safety of an expert"



03

Course Management

For our course to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best. For our course to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.

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With the expertise of industry professionals who will teach you based on the reality of the sector in a contextual and realistic learning”

Professors

Dr. Güemes Heras, Jaime

- ◆ Degree in Biology.
- ◆ Doctor of Biology (PhD).
- ◆ University of Valencia.
- ◆ Curator of the Botanical Garden, Cavanilles Institute of Biodiversity and Evolutionary and Biology

Dr. Bejarano, María

- ◆ Doctor of Pharmacy.
- ◆ Pharmacist in pharmacy office.

Dr. Palomino Ruiz-Poveda, Olga María

- ◆ Degree in Pharmacy.
- ◆ Doctor in Pharmacy (PhD).
- ◆ Faculty of Pharmacy, Complutense University, Madrid.
- ◆ Associate Professor of the Department of Pharmacology.

Dr. García-Fontestad, Gema Alejandra

- ◆ Doctor of Pharmacy.
- ◆ Pharmacist in pharmacy office.



Dr. García-Fontestad, Gema Alejandra

- ◆ Doctor of Pharmacy.
- ◆ Pharmacist in pharmacy office.

Ibars, Ana

- ◆ University of Valencia. Botany Teaching Unit.

Dr. Soriano, Pilar

- ◆ Degree in Pharmacy.
- ◆ Doctor in Pharmacy (PhD).
- ◆ Faculty of Pharmacy. University of Valencia.
- ◆ Professor of the Department

Degree in Izquierdo, Rosa

- ◆ Degree in Pharmacy.
- ◆ Drug Information Center.
- ◆ Illustrious Official College of Pharmacists of Castellón.

04

Structure and Content

The contents of this course have been developed by the different teachers with a clear purpose: to ensure that our students acquire each and every one of the skills necessary to become true experts in this subject.



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A high scientific level training created to provide you with the safe intervention capacity in phytotherapy that your praxis needs”

- 1.1. Active Ingredients: Main Groups and Properties, as a Basis that Justifies the use of Phytotherapy.
- 1.2. Carbohydrates, Lipids, Proteins, and Sulfocyanogenetic Heterosides and their Therapeutic Application.
- 1.3. Simple Phenols, Coumarins and Lignans and their therapeutic application.
- 1.4. Flavonoids and their Therapeutic Application.
- 1.5. Tannins and Quinones and their Application.
- 1.6. Isoprenoids, Saponins and Cardiotonic Heterosides and their Application.
- 1.7. Resins and their Application.
- 1.8. Alkaloids and their Application.
- 1.9. Magistral Formulation in Phytotherapy.
- 1.10. Other Pharmaceutical Forms in Phytotherapy.
- 1.11. Industrial Processing of Herbal Medicines.



“

A comprehensive teaching program, structured in well-developed teaching units, oriented toward a high impact learning and training”

05 Methodology

Our Postgraduate Certificate in Active Principles of Plants, Pharmaceutical Forms and Galenic Preparations offers you an innovative method to strengthen your clinical competences based on the study of clinical cases and contents in a cyclical way. This method has been the most widely used learning system by the most prestigious medical schools in the world and by relevant publications such as the New England Journal of Medicine.



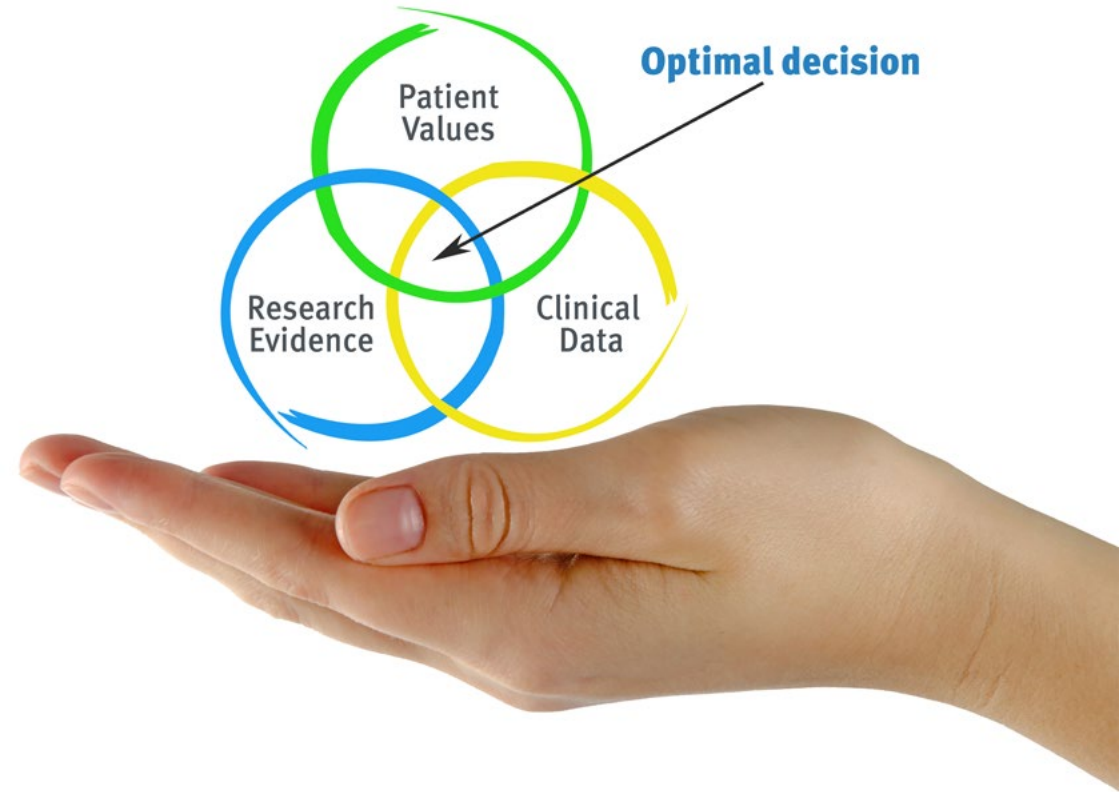
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This type of teaching-learning encourages curiosity and skill development, as well as allowing the physician to feel an active part of the process"

In a given situation, what would you do? Throughout these months, the physician will face multiple simulated clinical cases based on real patients in which he/she will have to investigate, establish hypotheses and finally, resolve the situation. This method makes doctors learn better as they accept more responsibility and get closer to the reality of their professional future.



Did you know that this method was developed in 1912 for Law Students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method.



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching potential or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the physician's professional practice.

It is a technique that develops critical skills and prepares the doctor to make decisions, defend their arguments, and contrast opinions.

According to Reynolds, there are four fundamental reasons that support the effectiveness of the case method applicable to medicine:

01

Care Doctor develop their mental capacities better by evaluating real situations and applying concepts.

02

Care Doctor will be better prepared for the development of their professional activity.

03

Ideas and concepts are better assimilated when they are analyzed in situations that have arisen from reality.

04

Care Doctor voluntarily dedicate more time to work because they find it more interesting to work with cases.



Re-Learning Methodology

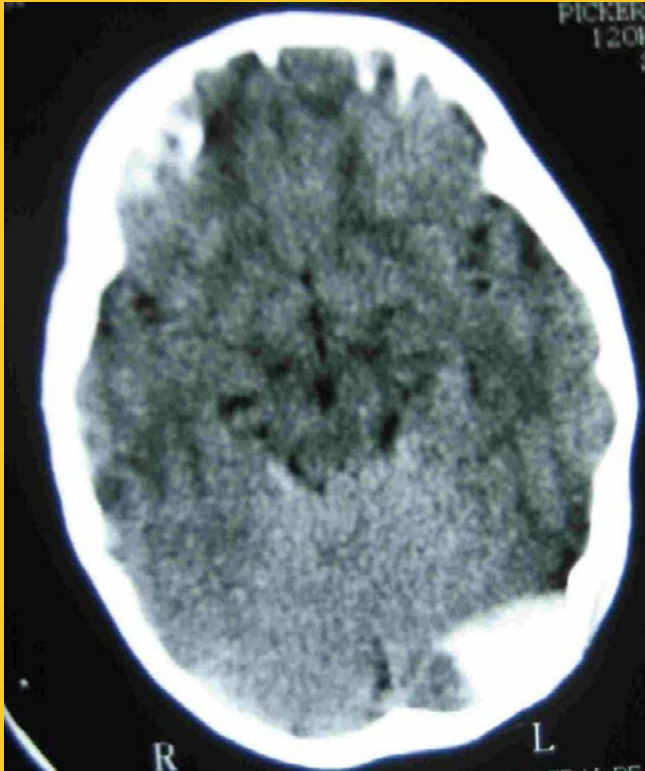


The physician will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning”

...we enhance them with the best 100% online teaching method: Relearning...

Our university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining 8 different elements in each lesson, which represent a revolution with respect to simply studying and analyzing cases.





This methodology, at the forefront of world teaching, is called Re-learning. Our school is the first in Spanish-speaking countries licensed to use this successful method, having achieved in 2015 to improve the overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) of Care Doctor who complete the courses with respect to the indicators of the best online university in Spanish-speaking countries.

The overall score obtained by our learning system is 8.01, according to the highest international standards.

In our **Postgraduate Certificate in Active Principles of Plants, Pharmaceutical Forms and Galenic Preparations**, learning is not a linear process, but a spiral one (we learn-unlearn (forget) and relearn); that is why we combine each of these elements in a concentric way.

With this methodology we have trained more than 40,000 doctors with unprecedented success, in areas such as pediatrics, surgery, infectious diseases, hepatology, etc. All this in a highly demanding environment, with a university student body with a high socioeconomic profile and an average age of 42 years.

... and all this with the best learning materials at the forefront of technology and pedagogy...

In this course you will have access to the best educational materials, prepared for you:



Study Material

After a complex production process, we transform the best content into high-quality educational and audiovisual multimedia. We select the best syllabus and make it available to you. Everything you need to acquire in-depth knowledge of a discipline, from A to Z. Lessons written and chosen by specialists in each of the disciplines.



Surgical techniques and clinical procedures on video

We bring you closer to the latest techniques, to the latest scientific advances, to the forefront of medical news. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



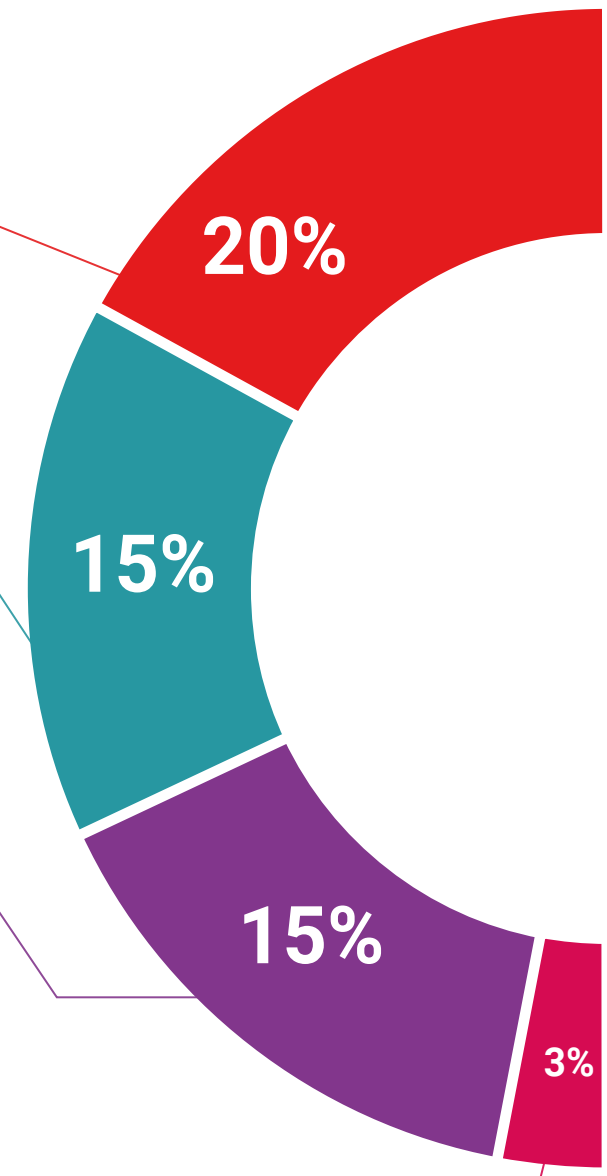
Interactive Summaries

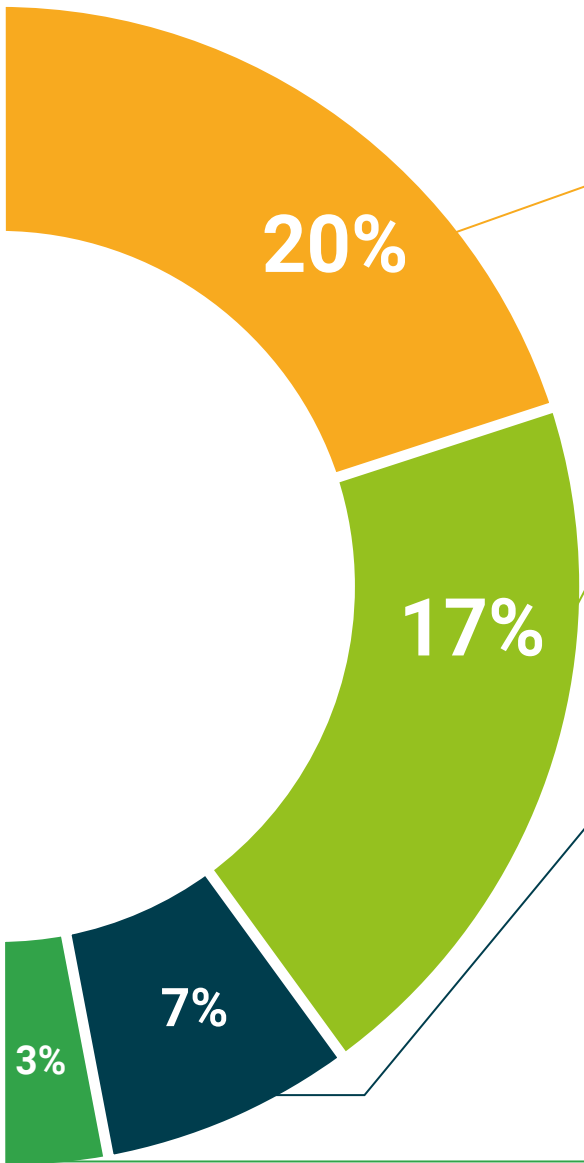
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge. This unique training system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... in our virtual library you will have access to everything you need to complete your training.





Expert-Led Case Studies and Case Analysis

Through the narratives of expert professionals, it is possible to acquire a high degree of understanding of the most frequent problematic situations. The professional's healthcare practice is not alien to the context in which it takes place. If we want to train ourselves to improve our professional practice, this training must be situated within the context in which it takes place.



Testing & Re-testing

We periodically evaluate and re-evaluate your knowledge throughout this program through activities and evaluative exercises.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful. Learning from an expert strengthens knowledge and recall, and generates confidence in our future difficult decisions



Quick Action Guides

One of the most important functions of our team is to select those contents considered essential and present them in the form of worksheets or quick action guides to facilitate their understanding.



06 Certificate

This Postgraduate Certificate in Active Principles of Plants, Pharmaceutical Forms and Galenic Preparations guarantees you, in addition to the most rigorous and up-to-date training, access to a university course degree issued by **TECH - Technological University**.



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Successfully complete this training and receive your university degree without travel or laborious paperwork”.

This **Postgraduate Certificate in Active Principles of Plants, Pharmaceutical Forms and Galenic Preparations** contains the most complete and up-to-date scientific program on the market.

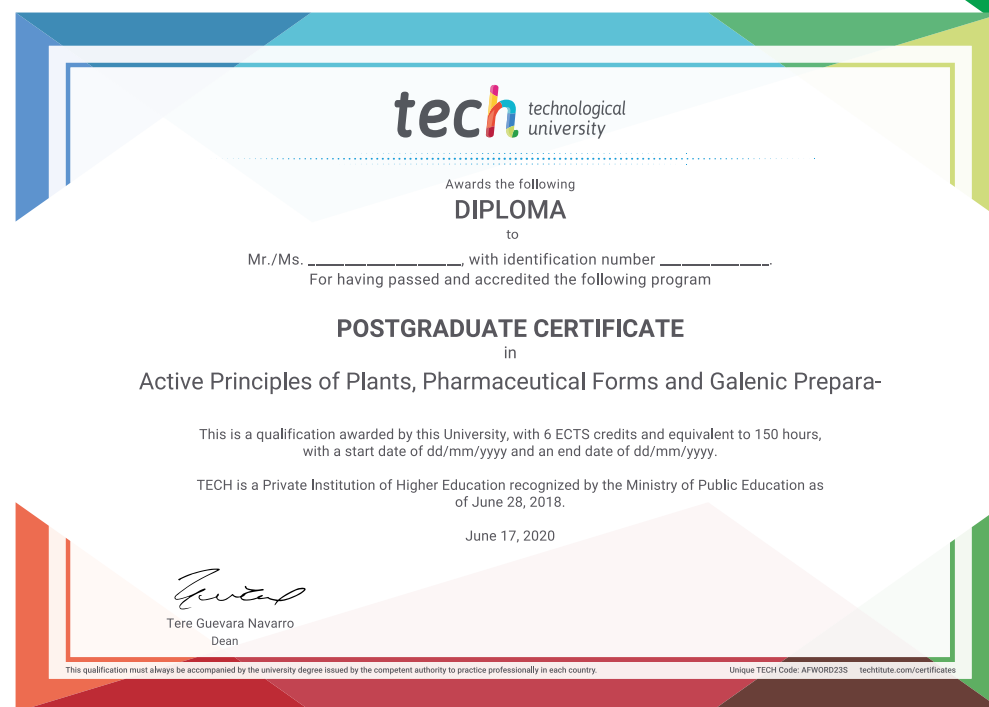
After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH - Technological University** via **tracked delivery**.

The certificate issued by **TECH - Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professionals career evaluation committees.

Title: Postgraduate Certificate in Active Principles of Plants, Pharmaceutical Forms and Galenic Preparations

ECTS: 6

Official Number of Hours: 150 hours.



*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.

health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
development language
classroom



Postgraduate Certificate
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Course Modality: Online

Duration: 6 weeks

Certificate: TECH - Technological University

6 ECTS Credits

Teaching Hours: 150 hours.

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