

Postgraduate Certificate

Active Principles of Plants,
Pharmaceutical Forms and Galenic
Preparations



Postgraduate Certificate Active Ingredients of Plants, Pharmaceutical Forms and Galenic Preparations

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/active-ingredients-plants-pharmaceutical-forms-galenic-preparations

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01

Introduction

The medical profession has intensively incorporated the use of scientifically proven phytotherapy into its therapeutic intervention. In this course you will learn about the active principles of plants, their pharmaceutical forms and how to prepare the most interesting galenic preparations of the most advanced phytotherapy.





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A course created for the medical professional, which will allow you to learn about the active principles of phytotherapy, its pharmaceutical forms and the most interesting and useful galenic preparations”

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 training the student to be more effective and accurate.

Taking into account that, on the one hand, the different university format programs generally lack a deep and continuously updated training in Phytotherapy, and on the other hand, that current health trends lean towards the use of safe and effective natural remedies, it is necessary to be able to offer students the possibility of expanding their knowledge and therapeutic skills with a greater specialization in the use of medicinal plants, from the professional and academic side necessary to adequately face their future in this field.

This online Postgraduate Certificate offers you the benefits of a scientific, teaching and technological high-level 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.



Get up to date in all the latest developments in the field of Phytotherapy. by completing the most effective Postgraduate Certificate in this field available on the market"

“

A complete course created with the best learning systems of the moment, which will propel you to a much higher level of competitiveness”

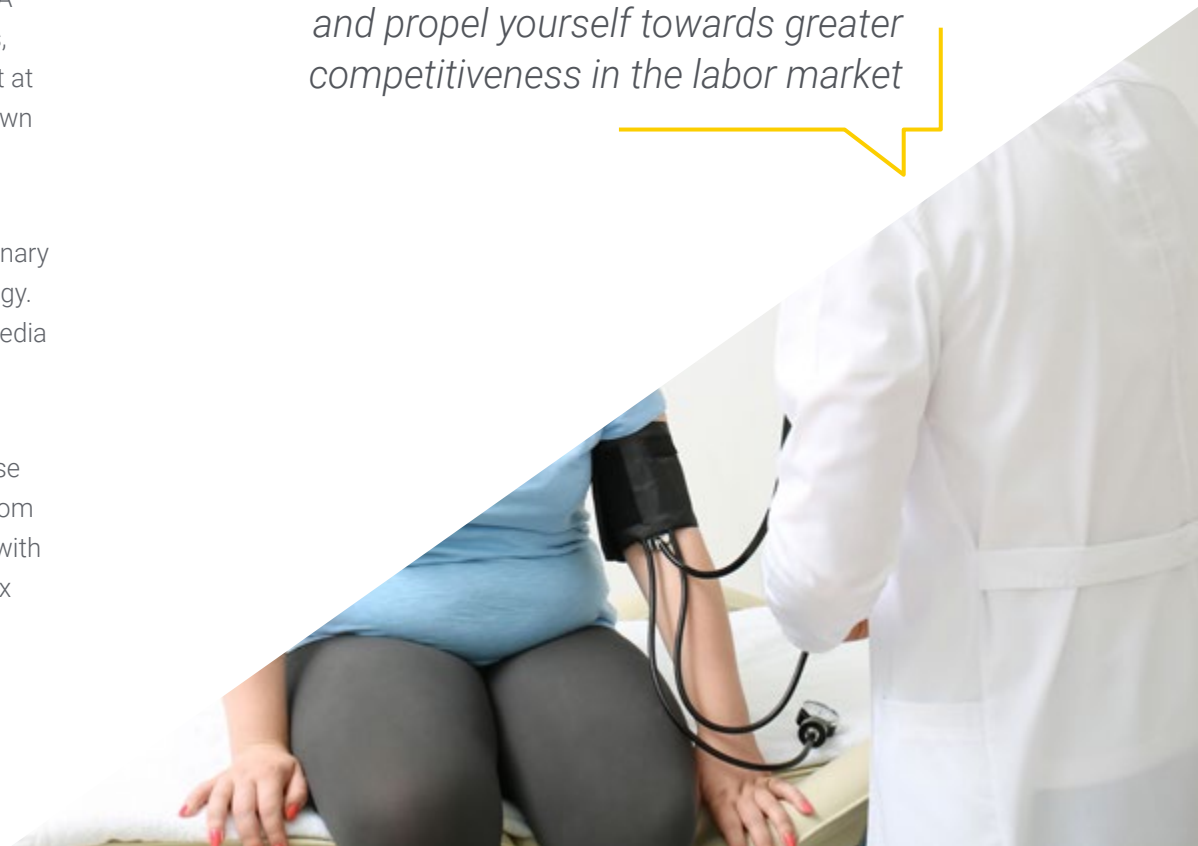
Our teaching staff is composed of medical professionals, practising specialists. In this way, we ensure that we provide you with the training update we are aiming for. A multidisciplinary team of doctors trained and experienced in different environments, who will develop the theoretical knowledge in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

This mastery of the subject is complemented by the effectiveness of the methodological design of this Postgraduate Certificate. Developed by a multidisciplinary team of e-learning experts, 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.

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

Take a leap towards greater specialization and propel yourself towards greater competitiveness in the labor market



02

Objectives

This Postgraduate Certificate will allow you to define the limits of the use of phytotherapy to be able to handle it safely and the patient, so that you can make the appropriate decisions to use it in a preventive and therapeutic way.





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With an objective focused on practice, this course will allow you to act with the solvency of a medical 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 medicinal plants, evaluating the expected benefits and associated risks.
- ♦ Apply theoretical knowledge to practice.



Specific Objectives

- ♦ Define what a drug is and distinguish it from an active ingredient.
- ♦ Explain the protocols for drug recognition.
- ♦ Explain techniques for the cultivation, collection, processing and conservation of medicinal plants.
- ♦ Identify botanical nomenclature and species citation.
- ♦ Classify plant groups according to phylogenetic systematics (APG, 2009).
- ♦ Define the medicinal utility of mushrooms.
- ♦ Explain the legislation and regulation in relation to Phytotherapy.
- ♦ Explain the application of the magistral formulation in Phytotherapy.
- ♦ Explain the industrial processing of herbal medicines.



Get trained in phytotherapy in just a few months and differentiate yourself from the rest of the medical profession, giving a boost to your training



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.





“

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

Professors

Guemes

- ♦ D. in Biology.
- ♦ Curator of the Botanical Garden, Cavanilles Institute of Biodiversity and Evolutionary Biology.
- ♦ University of Valencia.

María Bejarano

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

Palomino Ruiz-Poveda, Olga

- ♦ Doctor of Pharmacy.
- ♦ Associate Professor. Department of Pharmacology.
- ♦ Faculty of Pharmacy. Complutense University, Madrid.

Gema Alejandra García-Fontestad

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





Ibars Almonacil, Ana

- ◆ Botany Teaching Unit.
- ◆ University of Valencia.

Soriano Guarinos, Pilar

- ◆ Doctor of Pharmacy.
- ◆ Full Professor, Department of Botany.
- ◆ Faculty of Pharmacy. University of Valencia.

Rosa Izquierdo

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

04

Structure and Content

The contents of this course have been developed by 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 field.



“

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

Module 1. Active Ingredients of the Plants, Pharmaceutical Forms and Galenic Preparations.

- 1.1. Active Ingredients: Main Groups and Properties, as a Basis that Justifies the use of Phytotherapy.
- 1.2. Carbohydrates, Lipids, Proteins, and Sulfo cyanogenetic 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.

HERBAL REMEDIES



STOR OIL



MUGWORT



LICORICE



G



RAPES



CAYENNE PEPPER



NUTMEG



BOS



VAGANDHA



ECHINACEA



WHITE WILLOW BARK



CHA



GINKGO



MUCUNA



ELEUTHERO



GIN



WELLIA



STINGING NETTLE



ST. JOHN'S WORT



GIL



MOMILE



LAVENDER



GOLDENSEAL



DEVIL



*A unique, key, and decisive
Training experience to boost your
professional development"*

05

Methodology

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





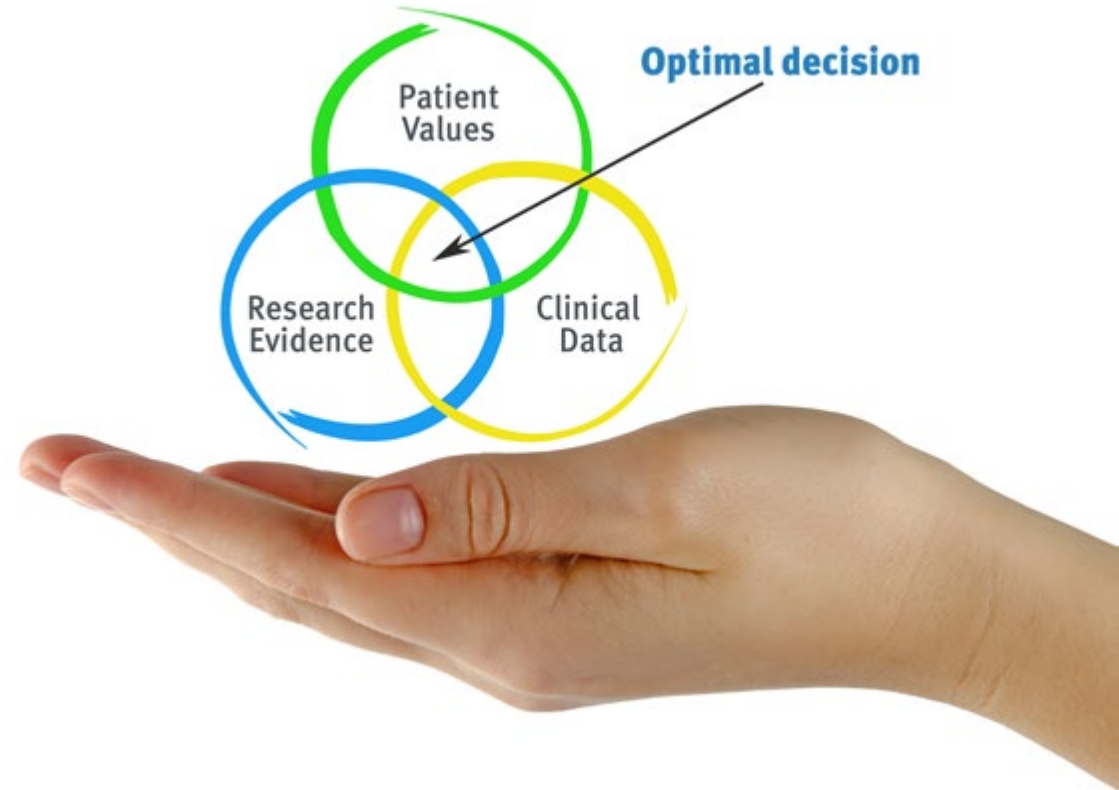
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This type of teaching-learning encourages curiosity and skill development, as well as allowing the Doctor to feel an active part of the process”

In a given situation, what would you do? Throughout these weeks, the Doctor will face multiple simulated clinical cases based on real patients in which they will have to investigate, establish hypotheses and finally, resolve the situation. This method makes physicians 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

Physicians develop their mental abilities best by evaluating real situations and applying concepts.

02

Physicians 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

Physicians voluntarily devote more time to work as they find it more interesting to work with cases.



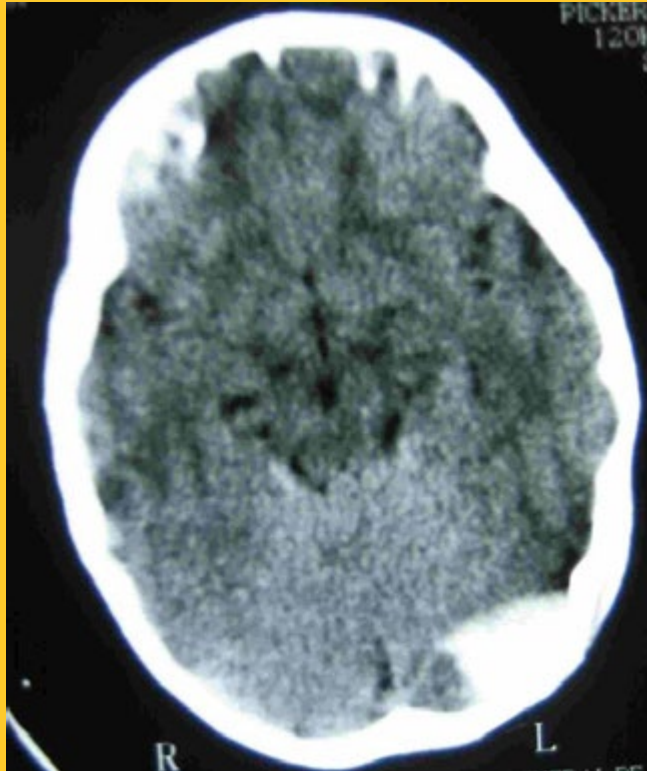


The physician will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning”

...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 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 Ingredients of the Plants, Pharmaceutical Forms and Galenic Preparations learning is not a linear process, but happens in a spiral (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 Doctor 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 Postgraduate Certificate you will have access to the best educational material, prepared with you in mind:



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 newest techniques, to the latest scientific advances, to the forefront of current doctor 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.



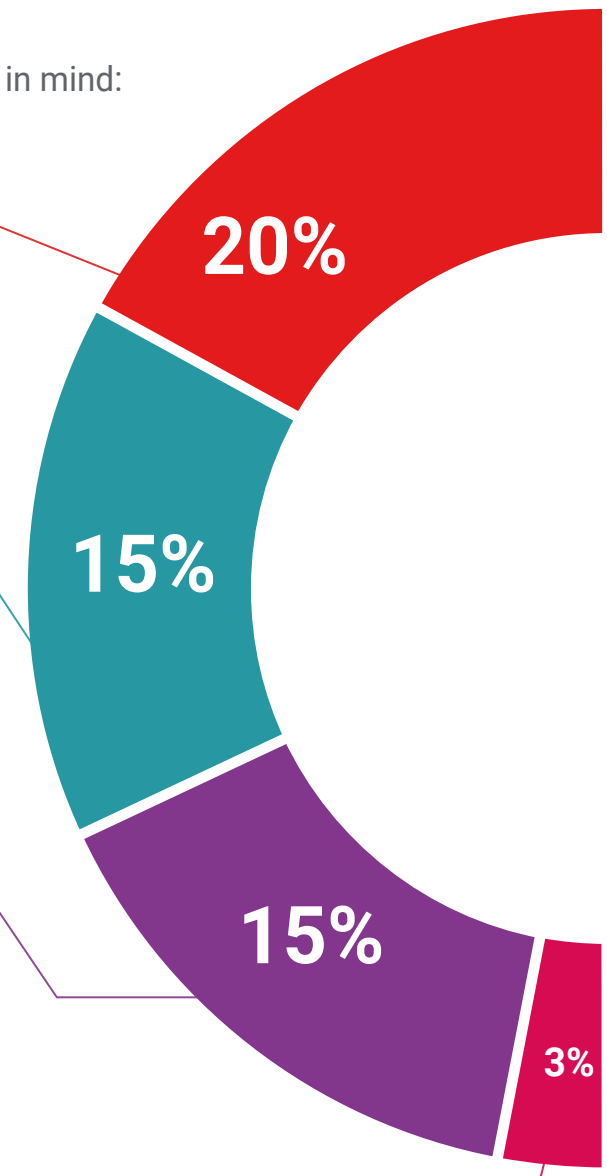
Interactive Summaries

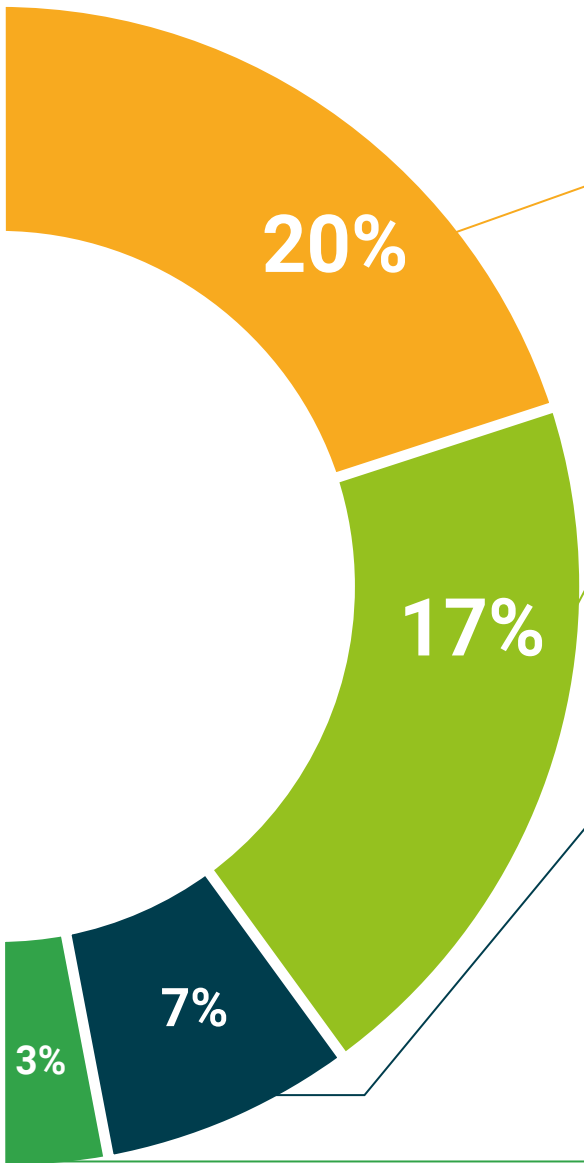
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge. This unique training system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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

The Postgraduate Certificate in Active Ingredients of the Plants, Pharmaceutical Forms and Galenic Preparations guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Certificate issued by TECH Global University.



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Successfully complete this training and receive your diploma without the hassle of travel or paperwork”

This program will allow you to obtain your **ostgraduate Certificate in Active Principles of Plants, Pharmaceutical Forms and Galenic Preparations** 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 Active Principles of Plants, Pharmaceutical Forms and Galenic Preparations**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University 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

community commitment

tech global
university

personalized service innovation

knowledge present
online training
development languages
virtual classroom

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