



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.techtitute.com/us/nutrition/postgraduate-certificate/active-ingredients-plants-pharmaceutical-forms-galenic-preparations

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tech 06 | Introduction

Natural active ingredients are the basis of many drugs used in modern medicine. However, for these active ingredients to be effective and safe, they need to be properly formulated and prepared. This is where Pharmaceutical Forms and Galenic Preparations come into play. On the one hand, the dosage forms determine how the active ingredient is physically presented when administered. Finally, Galenic Preparations are the result of the specific formulation and preparation of the active ingredients, with the aim to optimize their stability and release in the organism.

In this sense, it is important for the professional to be able to recommend specific foods or supplements containing these active ingredients that complement and improve the results of nutritional therapy. For this reason, TECH has created a program with the purpose of offering the Nutrition specialist an update on topics such as the correct manufacture of drugs, the application of alkaloids and cardiotonic heterosides.

A 100% online academic proposal supported by multimedia resources such as videos in detail. Likewise, this content will be available in a virtual library that will allow access 24 hours a day without time restrictions. This will guarantee the expert a unique experience of academic excellence

This Postgraduate Certificate in Active Ingredients of Plants, Pharmaceutical Forms and Galenic Preparations contains the most complete and up-to-date scientific program on the market. The most important features include:

- Practical case studies are presented by experts in Phytotherapy
- The graphic, schematic, and practical contents with which they are created, provide scientific and 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 100% online program, you will be able to delve deeper into sulphocyanogenetic glucids, lipids, protides and heterosides and how to take advantage of their therapeutic potential"

Introduction | 07 tech



You will delve into and learn how to apply the therapeutic properties of simple phenols, coumarins and lignans in the field of Nutrition"

The program's teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive training programmed to train in real situations.

This program is designed around Problem-Based Learning, whereby students must try to solve the different professional practice situations that arise throughout the program. For this purpose, students will be assisted by an innovative, interactive video system created by renowned and experienced experts.

You will implement in your work practice the benefits of flavonoids and their application in specific therapeutic treatments.

You will harness the power of tannins and quinones to enhance nutrition and well-being.







tech 10 | Objectives



General Objectives

- Define the therapeutic limits of Phytotherapy and identify the cases in which it can be used safely
- Describe the use of Phytotherapy aimed at satisfying 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 with relation to the active ingredients
- Define the therapeutic application of phenols, flavonoids, tannins, isoprenoids, resins, alkaloids and other products

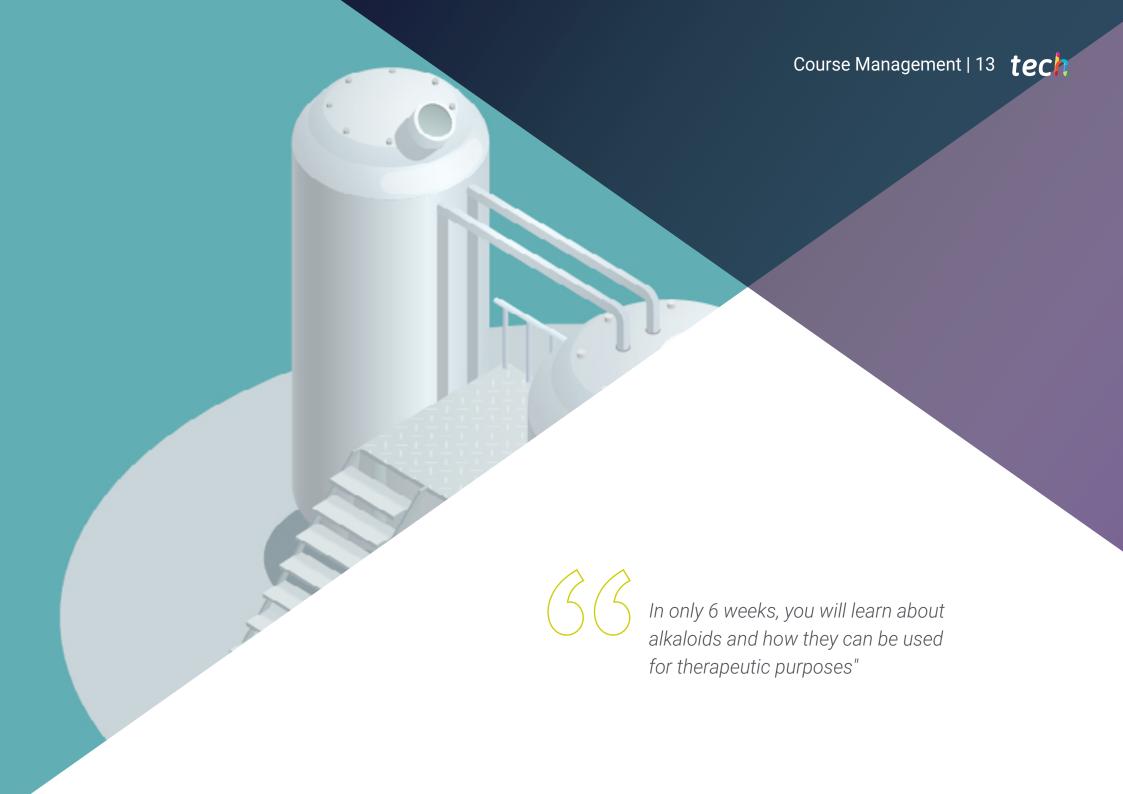


You will recognize resins and their application in the elaboration of application in the elaboration of effective natural medicines"



Phytotherapy. This will guarantee the students a quality and totally innovative learning

from the hand of outstanding experts.



tech 14 | Course Management

Professors

Dr. Acero de Mesa, Nuria

- Pharmaceutical expert in Biotechnology
- Full Professor, Department of Pharmaceutical and Health Sciences, Faculty of Pharmacy, CEU San Pablo University
- Main investigator of the Natural Products group at San Pablo University
- Doctor of Pharmacy
- Co-author of several scientific publications in specialized media

Dr. González Rosende, Eugenia

- Pharmacist and Researcher Specializing in the Therapeutic Area
- Professor of the Department of Pharmacy at the Faculty of Health Sciences of the CEU Cardenal Herrera University
- Principal Investigator of the group on the Search for New Compounds with Therapeutic Activity at CEU Cardenal Herrera University
- Researcher of the SEPLAN group at CEU Cardenal Herrera University
- Doctor of Pharmacy
- Author of several specialized books on organic chemistry for the clinical profession

Ms. Buendía Sánchez, Esmeralda

- Technical Pharmaceutical Director
- Technical Pharmaceutical Director Arkopharma Laboratories
- Director of the Scientific Department, Arkopharma, SA
- Author of Hypericum in the treatment of depression and co-author of several publications
- Specialist in Pharmacy

Dr. Balaguer Fernández, Cristina

- Pharmacist specialized in transdermal administration therapies
- Vice-Dean of the Faculty of Pharmacy at Cardenal Herrera University
- Assistant Professor in the Department of Pharmacy at the Faculty of Health Sciences of the CEU Cardenal Herrera University
- Coordinator of different Masters at CEU University
- Doctor in Pharmacy from CEU Cardenal Herrera University
- Lectures and communications in national and international congresses

Dr. Muñoz-Mingarro, Dolores

- Professor of the Department of Chemistry and Biochemistry of the Faculty of Pharmacy from CEU San Pablo University
- Researcher
- Author of more than 30 scientific articles
- Prize for the best initiative awarded by Correo Farmacéutico for the book Phytotherapy Manual
- PhD in Biological Sciences from the Complutense University of Madrid
- Degree in Biological Sciences from the Complutense University of Madrid
- Degree in Pharmacy from the Complutense University of Madrid
- Member of: Spanish Society of Chromatography and Related Techniques SECYTA,
 Iberoamerican Network of Natural Products for Medicinal Use and Research Groups in Ripronamed

Dr. Calatayud Pascual, Araceli

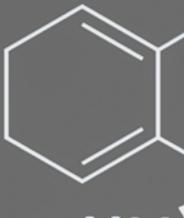
- Director of the Department of Pharmacy, Faculty of Health Sciences, CEU Cardenal Herrera University
- Assistant Pharmacist in Pharmacy Office
- Coordinator of the Medicine Degree
- Coordinator of the External Internships of Medicine
- Coordinator of the second cycle of the Degree in Medicine
- Assistant Professor of the University Department of Pharmacy in the Faculty of Health Sciences from CEU Cardenal Herrera University
- Professor of Pharmacology in the Degree of Medicine at the CEU Cardenal Herrera University
- Participation in 41 presentations and / oral presentations at national and international conferences
- Researcher in 8 research projects funded by public and private institutions
- Author of several scientific publications
- Doctor of Pharmacy. Cardenal Herrera University CEU
- Degree in Pharmacy. Cardenal Herrera University CEU
- Master's Degree in Community Pharmaceutical Care University of Valencia
- Diploma in Pharmaceutical Performance in Primary Care University of Valencia
- Specialized pharmacist in Orthopedics University of Valencia

04

Structure and Content

The syllabus included in this program has been put together in order to provide the nutritionist with the necessary knowledge and skills at the time of using the Active Principles of Plants. In this way, the professional will have the certainty of deepening in the most relevant concepts for this field such as the main groups and properties of the active ingredients, simple phenols, coumarins for their therapeutic use, the master formulation in Phytotherapy and the rules of a correct manufacturing of herbal medicines. All this content can be found in this 100% online program, which will allow the professional to coordinate his daily activities with those of their update, since they will not be subject to a preset schedule.









Take a that Re

Take advantage of the flexibility and freedom that Relearning offers you to acquire knowledge efficiently and adapted to your needs"

tech 18 | Structure and Content

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

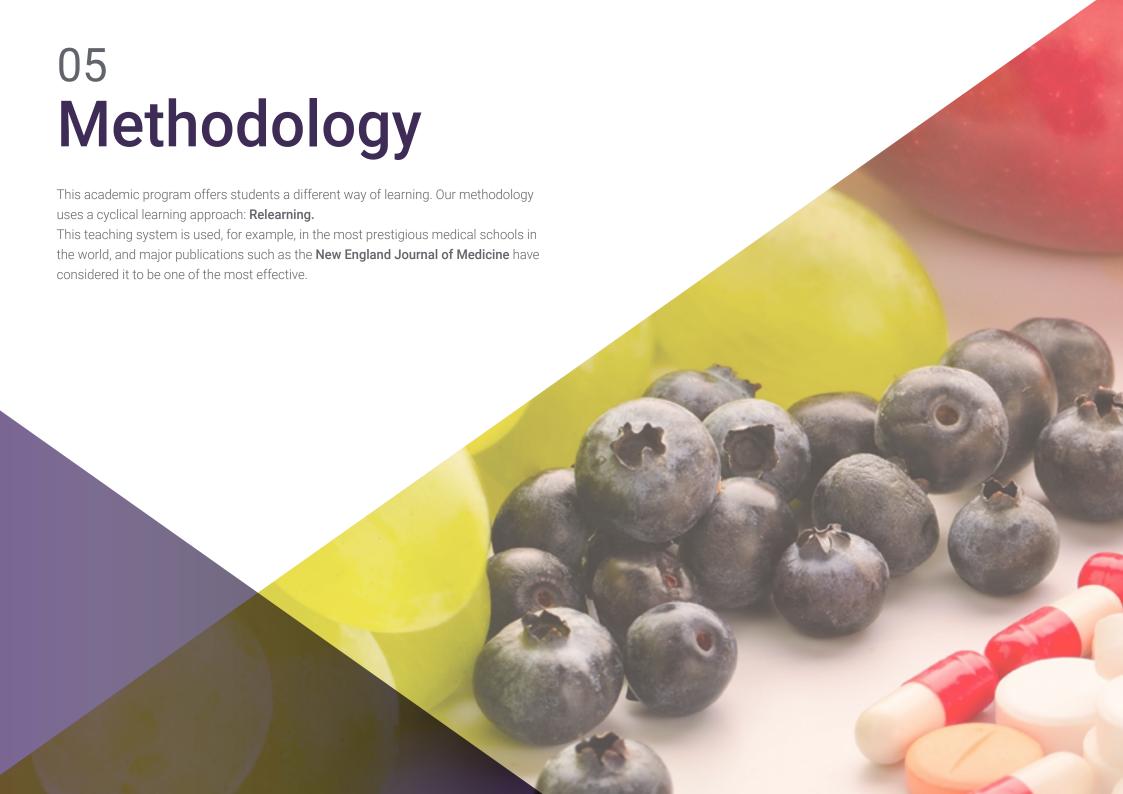
- 1.1. Active Ingredients: Main Groups and Properties, as a Basis that Justifies the use of Phytotherapy
- 1.2. Carbohydrates, Lipids, Proteins, and Sulfocyanogenetic Heterosides and their Therapeutic Application
- 1.3. Simple Phenols, Coumarins and Lignans, and their Therapeutic Application
- 1.4. Flavonoids 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. Standards for the Proper Manufacture of Herbal Medicines







You will acquire skills in master formulation in Phytotherapy and create your own personalized preparations"



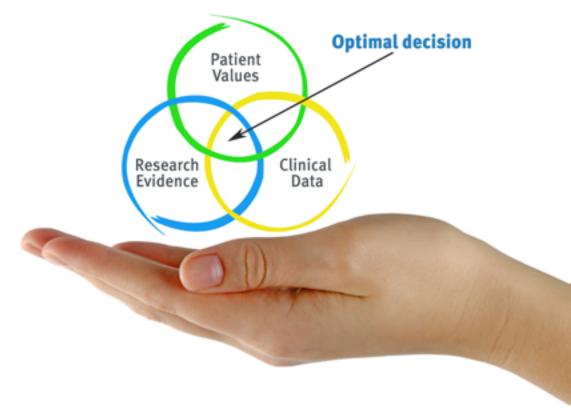


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At TECH we use the Case Method

In a given situation, what should a professional do? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH, nutritionists can experience a way of learning that is shaking the foundations of traditional universities around the world.



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 power 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 of professional nutritional practice.



Did you know that this method was developed in 1912, at Harvard, 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"

The effectiveness of the method is justified by four fundamental achievements:

- Nutritionists who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity through exercises to evaluate real situations and the application of knowledge.
- 2. Learning is solidly translated into practical skills that allow the nutritionist to better integrate knowledge into clinical practice.
- 3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
- **4.** Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



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Relearning Methodology

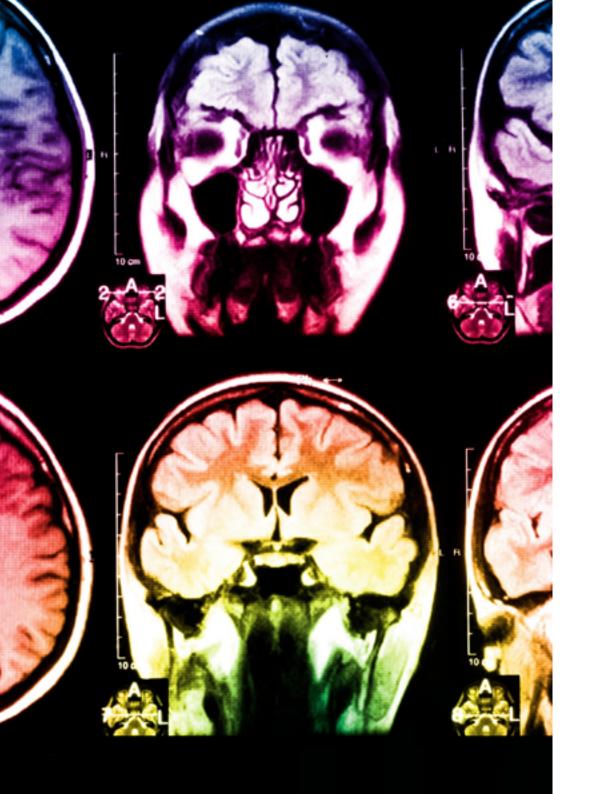
At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

The nutritionist 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.





Methodology | 25 tech

At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology, more than 45,000 nutritionists have been trained with unprecedented success in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socioeconomic 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.

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.

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

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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.



Nutrition Techniques and Procedures on Video

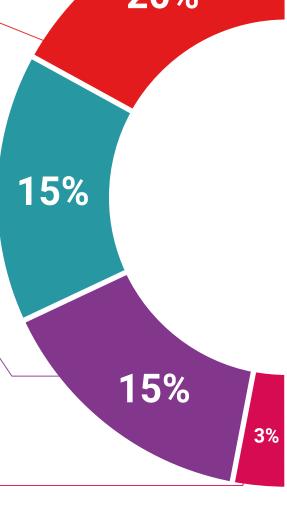
TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current nutritional counselling techniques and procedures. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



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.

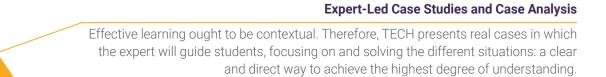
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".





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.





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.

Classes



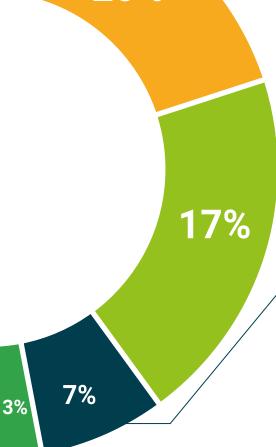
There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.

Quick Action Guides



TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.







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

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



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

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

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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- » Schedule: at your own pace
- » Exams: online

