

# Professional Master's Degree

## Advances in Applied Phytotherapy





## Professional Master's Degree Advances in Applied Phytotherapy

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/pharmacy/professional-master-degree/master-advances-applied-phytotherapy-pharmacists](http://www.techtute.com/us/pharmacy/professional-master-degree/master-advances-applied-phytotherapy-pharmacists)

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# 01

# Introduction

The pharmaceutical industry has taken important steps in achieving greater stability of formulations, quality and effectiveness of products in Phytotherapy. These advances are backed up by numerous clinical trials that also support their safety, but which in turn require exhaustive knowledge about their use and their compatibility with other drugs. Faced with this reality, this academic institution has designed a program that will delve into Applied Phytotherapy with an up-to-date vision of its use in conditions affecting the nervous system, the digestive system or the locomotor system. All of this through an innovative multimedia content that can be accessed 24 hours a day from a computer with internet connection.



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*A unique opportunity to keep up to date with scientific advances in Applied Phytotherapy through quality teaching and an innovative pedagogical methodology”*

Thanks to scientific studies, Phytotherapy has established itself as a science of inestimable value for the health of people seeking effective treatments away from the more aggressive side effects of traditional drugs. A method that has also demonstrated its effectiveness in mild or moderate depression, occasional insomnia, constipation or respiratory disorders.

Likewise, the technological advances of the last years have allowed to perfect even more the treatments in Phytotherapy and its action in the organism. These advances pose a major challenge for researchers and at the same time have boosted this specialty with their successes. In this scenario, the pharmaceutical professional must be continuously updating their knowledge given, in addition to the large amount of information. This is why TECH has designed this Professional Master's Degree that provides the most recent scientific evidence in the field of Phytotherapy by the hand of a specialized teaching team.

All of this will be possible thanks to the multimedia teaching resources developed so that the professional can delve in a much more attractive way in the application of phytotherapy in cardiovascular and gynecological conditions or the new active ingredients discovered. In addition, students will have access to case studies that will bring them closer to situations that can be integrated into their daily practice.

Thus, pharmacists have an excellent opportunity to update their knowledge through a quality, flexible and convenient university education. All you need is an electronic device with an internet connection to access the syllabus hosted on the virtual platform. In addition, you have the option of distributing your course load according to your needs, allowing you to combine a university program with the most demanding responsibilities.

This **Professional Master's Degree in Advances in Applied Phytotherapy** contains the most complete and up-to-date educational program on the market. Its most notable features are:

- ◆ Practical case studies are presented by experts in Applied 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 self-assessment can be used 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



*TECH offers you a flexible academic option, compatible with your professional responsibilities as a pharmacist"*

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*The Relearning system of this program will allow you to update your knowledge of phytotherapy applied to parasitic diseases in a much more natural way"*

The program's teaching staff includes professionals from the sector who contribute their work 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 knowledge 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 throughout the program. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

*Thanks to this program, you will be up to date with the latest developments in the active principles of plants, pharmaceutical forms and galenic preparations.*

*Easily delve into the uses and limitations of aromatherapy with this university program.*



# 02 Objectives

The main objective of this 100% online program is to update knowledge through a theoretical-practical approach in the field of Applied Phytotherapy. For this, TECH provides students with the most innovative teaching tools that will lead them to be aware of advances in medicinal plants and the use of phytotherapeutic products in different pathologies.







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*This Professional Master's Degree is designed for you to acquire up-to-date knowledge in Applied Phytotherapy using the latest educational technology"*



## General Objectives

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- ♦ Define the therapeutic limits of Phytotherapy and identify 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



*You will obtain abundant scientific evidence on the efficacy of Phytotherapy, as well as on the safety and interactions of medicinal plants"*



## Specific Objectives

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### Module 1. Phytotherapy and Herbal Medicines

- ♦ Define what a drug is and distinguish it from an active ingredient
- ♦ Explain the protocols for drug recognition
- ♦ Define the main chemical groups of active ingredients, which are responsible for the activity of drugs and by extension of plants
- ♦ Explain techniques for the cultivation, collection, processing and conservation of medicinal plants
- ♦ Identify botanical nomenclature and species citation
- ♦ Classify plant groups according to current regulations
- ♦ Define the medicinal utility of mushrooms
- ♦ Explain the legislation and regulation in relation to phytotherapy

### Module 2. Active Ingredients of the Plants, Pharmaceutical Forms and Galenic Preparations

- ♦ 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

### Module 3. Toxicity of Medicinal Plants and Risk Groups in Phytotherapy

- ♦ Explain the toxicity of medicinal plants so that treatments are safe
- ♦ Identify the therapeutic limits of phytotherapy in special groups of patients
- ♦ Describe the pharmaceutical forms used in phytotherapy
- ♦ Elaborate and select the most appropriate form according to the condition and treatment

#### **Module 4. Phytotherapy for Nervous System Disorders**

- ♦ Phytotherapy in the Treatment of Anxiety and Sleep Disorders
- ♦ Phytotherapy in the Treatment of Stress and Asthenia
- ♦ Phytotherapy for the Treatment of Depression
- ♦ Phytotherapy in the Treatment of Headaches
- ♦ Phytotherapy in Patients with Cognitive Disorders

#### **Module 5. Phytotherapy for Endocrine, Metabolic and Digestive System Disorders**

- ♦ Define the usefulness of phytotherapy in the treatment of gastritis and ulcers
- ♦ Define the usefulness of phytotherapy in the treatment of obesity and overweight
- ♦ Define the usefulness of phytotherapy in the treatment of diabetes
- ♦ Define the usefulness of phytotherapy in patients with inflammatory bowel disease
- ♦ Explain the phytotherapy treatments and the therapeutic limits in the most frequent digestive tract disorders
- ♦ Describe phytotherapy treatments and therapeutic limits in endocrine and metabolic disorders

#### **Module 6. Phytotherapy for Disorders of the Locomotor System**

- ♦ Define the usefulness of phytotherapy in the treatment of arthritis
- ♦ Define the usefulness of phytotherapy in the treatment of arthrosis
- ♦ Define the usefulness of phytotherapy in the treatment of joint pain
- ♦ Identify muscle that act as relaxant medicinal plants for the treatment of muscle contractions
- ♦ Define the usefulness of phytotherapy in the treatment of arthrosis
- ♦ Identify and classify remineralizing medicinal plants
- ♦ Explain the phytotherapy treatments and therapeutic limits in locomotor system disorders

#### **Module 7. Phytotherapy for Cardiovascular and Respiratory Diseases**

- ♦ Define the usefulness of phytotherapy in the treatment of heart failure
- ♦ Define the usefulness of phytotherapy in the treatment of arterial hypertension
- ♦ Define the usefulness of phytotherapy in the treatment of venous insufficiency
- ♦ Define the usefulness of phytotherapy in the treatment of coughs
- ♦ Describe phytotherapy treatments and therapeutic limits in cardiovascular conditions
- ♦ Describe the phytotherapy treatments and therapeutic limits in respiratory system disorders
- ♦ Define the usefulness of phytotherapy in the treatment of allergic respiratory processes

#### **Module 8. Phytotherapy for Gynecological and Urinary System Affections**

- ♦ Describe phytotherapy treatments and therapeutic limits in urinary system disorders, especially in BPH
- ♦ Know the phytotherapy treatments and therapeutic limits in gynecological conditions such as menopause

#### **Module 9. Dermatological Phytotherapy**

- ♦ Describe phytotherapy treatments and therapeutic limits in skin conditions
- ♦ Describe the phytotherapy treatments and therapeutic limits in scalp disorders
- ♦ Explain the relationship between cosmetics and phytotherapy, and their application

#### **Module 10. Other Applications of Phytotherapy: Immunomodulatory Phytotherapy, Phytotherapy for Pathologies of the Sensory Organs, Phytotherapy for Parasitic Diseases and Aromatherapy**

- ♦ Define the therapeutic limits of aromatherapy, its application and associated risks
- ♦ Explain the activity of medicinal plants on the immune system and their possible application in certain pathologies related to the immune system
- ♦ Define the application of phytotherapy in pathologies of the sense organs

# 03 Skills

The updating of knowledge is an essential part of pharmaceutical professionals who want to be at the forefront in their field. That is why this Professional Master's Degree will allow students to enhance their skills in the field of the application of phytotherapy according to the characteristics of the person's pathology. For this, it also has a team of specialized professionals with a high qualification in this science.





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*Enhance your skills with a program that will take you deeper into phytotherapy used in infectious skin diseases, asthma or allergies”*



## General Skills

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- ♦ Master the classification and nomenclature of active ingredients
- ♦ Utilize phytotherapy to prevent and treat diseases
- ♦ Deal expertly with the problems of overdose, intoxication, etc.
- ♦ Solve specific problems by applying phytotherapy
- ♦ Acquire skills in the collection, preservation and manipulation of medicinal plants
- ♦ Master the strategies of scientific research in phytotherapy
- ♦ Master professional communication skills
- ♦ Integrate evidence-based medicine into daily practice
- ♦ Provide support and phytotherapeutic advice
- ♦ Know how to update therapeutic plans to meet the most current standards





## Specific Skills

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- ♦ Keep clinical knowledge up to date with new advances in applied phytotherapy
- ♦ Master the advances in clinical phytotherapy
- ♦ Recognize and classify different medicinal plants and active ingredients
- ♦ Update knowledge in phytotherapy in various conditions
- ♦ Manage phytotherapy in relation to appetite and satiety
- ♦ Delve into the relationship between phytotherapy and endocrinology
- ♦ Gain in-depth knowledge of the bioethics of clinical research and of the professional/patient relationship
- ♦ Know and handle the different taxonomies in phytotherapy
- ♦ Know the different pathologies derived from abuse and addiction problems
- ♦ Master the problems of drug abuse
- ♦ Master the phytotherapy treatment of various childhood disorders
- ♦ Master phytotherapy in the treatment of urinary tract infections
- ♦ Apply phytotherapy in arthritis and osteoarthritis
- ♦ Define the properties of phytotherapy for joint pain
- ♦ Identify muscle relaxant medicinal plants for the treatment of muscle contractions
- ♦ Apply phytotherapy in the treatment of rheumatism
- ♦ Identify uricosuric plants
- ♦ Define the use of phytotherapy in the treatment of sarcopenia
- ♦ Identify remineralizing medicinal plants



*Thanks to the multimedia resources of this qualification, you will be able to learn in a much more dynamic way about phytotherapy applied to respiratory diseases"*

04

# Course Management

TECH carefully selects each and every one of the teachers that make up its programs, with the main purpose of offering students a quality education. For this reason, TECH has brought together a team of professionals with extensive experience in pharmacy and phytotherapy for this program. In addition, their proximity and proximity, will allow students to resolve any questions that arise about the content of this program.





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*TECH has brought together the best professionals in the field of phytotherapy for you to obtain the most advanced and current information about this science"*

## Professors

### Dr. Acero de Mesa, Nuria

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Full Professor, Department of Pharmaceutical and Health Sciences, Faculty of Pharmacy, CEU San Pablo University

### Dr. Allué Creus, Josep

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Titular Professor Department of Animal Biology, Plant Biology and Ecology at the Autonomous University of Barcelona

### Ms. Alonso Osorio, María José

- ◆ Specialist in Pharmacy
- ◆ Specialist in Galenic and Industrial Pharmacy
- ◆ Member of Medicinal Plants and Homeopathy, College of Pharmacists of Barcelona
- ◆ Postgraduate Diploma in Advances in Applied Phytotherapy from the University of Montpellier

### Dr. Bachiller Rodríguez, Luis Ignacio

- ◆ Specialist in Medicine
- ◆ President of the Asturian Society of Advances in Applied Phytotherapy
- ◆ Degree in Medicine and Surgery
- ◆ University Postgraduate Diploma in Advances in Applied Phytotherapy and Medicinal Plants from the University of Montpellier

### Dr. Balaguer Fernández, Cristina

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Assistant Professor in the Department of Pharmacy at the Faculty of Health Sciences of the CEU Cardenal Herrera University

### Dr. Bejarano, María

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

### Dr. Beltrán Montalbán, Estanislao

- ◆ Specialist in obstetrics and gynecology
- ◆ Doctor of Medicine

### Dr. Beltrán Sanz, Vicente

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Pharmacy office holder

### Dr. Blanquer Hernández, Antonio

- ◆ Specialist in Biology
- ◆ D. in Biology
- ◆ Professor in the Department of Pharmacy of the Faculty of Health Sciences at CEU Cardenal Herrera University

**Ms. Buendía Sánchez, Esmeralda**

- ◆ Specialist in Pharmacy
- ◆ Technical Pharmaceutical Director Arkopharma Laboratories

**Dr. Calatayud Pascual, Araceli**

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Assistant Professor in the Department of Pharmacy at the Faculty of Health Sciences of the CEU Cardenal Herrera University

**Dr. Carretero Accame, María Emilia**

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Professor, Department of Pharmacology, Faculty of Pharmacy, Complutense University of Madrid

**Dr. Catalá, Pedro**

- ◆ Specialist in Cosmetology
- ◆ Doctor of Pharmacy
- ◆ Founder of Twelve Beauty

**Ms. D'Ívernois Rodríguez, Araceli**

- ◆ Specialist in Pharmacy
- ◆ Technical Director at a Drug Information Center.
- ◆ Degree in Pharmacy

**Dr. Dea Ayuela, María Auxiliadora**

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Assistant Professor in the Department of Biomedical Sciences at the Faculty of Health Sciences of the CEU Cardenal Herrera University

**Mr. Folgado Bisbal, Ricardo V.**

- ◆ Specialist in Pharmacy
- ◆ Member of the Illustrious Official College of Pharmacists of Valencia
- ◆ Degree in Pharmacy

**Dr. García-Fontestad, Gema Alejandra**

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

**Dr. García Giménez, María Dolores**

- ◆ Specialist in Pharmacy
- ◆ Professor of Pharmacy in the Department of Pharmacology of the Faculty of Pharmacy at the University of Seville
- ◆ Doctor of Pharmacy

**Dr. González Rosende, Eugenia**

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Assistant Professor in the Department Pharmacy at the Faculty of Health Sciences of the CEU Cardenal Herrera University

**Dr. Güemes Heras, Jaime**

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

**Dr. Guerrero Masiá, María Dolores**

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Professor in the Department of Pharmacy of the Faculty of Health Sciences at CEU Cardenal Herrera University

**Ms. Ibars Almonacil, Ana**

- ◆ Botany Specialist
- ◆ Botany teaching unit at the University of Valencia

**Ms. Izquierdo Palomares, Rosa**

- ◆ Specialist in Pharmacy
- ◆ Degree in Community Pharmacy

**Dr. León Bello, Gemma**

- ◆ Specialist in Pharmacy
- ◆ Associate Professor of Pharmacology at the CEU Cardenal Herrera University
- ◆ PhD in Public Health
- ◆ Degree in Pharmacy

**Dr. Les Parellada, Francisco**

- ◆ Specialist in Pharmacy
- ◆ Research teaching staff of the San Jorge University
- ◆ Member of the research group Plant Bioactive Principles
- ◆ Doctor of Pharmacy





**Mr. López Briz, Eduardo**

- ◆ Specialist in Industrial and Galenic Pharmacy
- ◆ Head of Pharmacy Section at the Valencia Regional Ministry of Health

**Dr. López Castellano, Alicia**

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Professor in the Department of Pharmacy of the Faculty of Health Sciences at CEU Cardenal Herrera University

**Dr. López Ramos, Víctor**

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Associate Professor in the Department of Pharmacy of the Faculty of Health Sciences at the San Jorge University of Zaragoza

**Dr. Máñez Aliño, Salvador**

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Professor of Pharmacology, Department of Pharmacology, Faculty of Pharmacy, University of Valencia

**Dr. Marín Vázquez, Marta**

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Assistant Professor in the Department of Pharmacy at the Faculty of Health Sciences of the CEU Cardenal Herrera University

**Dr. Martín Almendros, Miguel**

- ◆ Specialist's Degree In Medicine and Surgery
- ◆ Secretary of the Working Group on Advances in Applied Phytotherapy SEMERGEN
- ◆ Degree in Medicine and Surgery

**Dr. Martín López, Teresa**

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Professor of the Department of Pharmacology at the Faculty of Pharmacy of the University of Alcalá.

**Dr. Moreno Royo, Lucrecia**

- ◆ Specialist in Pharmacy
- ◆ Professor in the Department of Pharmacy Faculty of Health Sciences at CEU Cardenal Herrera University

**Dr. Muñoz-Mingarro, Dolores**

- ◆ Specialist in Pharmacy
- ◆ Professor of the Department of Chemistry and Biochemistry, Faculty of Pharmacy, CEU San Pablo University
- ◆ D. in Biological Sciences

**Dr. Navarro Moll, Concepción**

- ◆ Specialist in Pharmacy
- ◆ Professor of Pharmacology, Department of Pharmacology, Faculty of Pharmacy, University of Granada
- ◆ Doctor of Pharmacy

**Dr. Noguera Romero, María Antonia**

- ◆ Specialist in Pharmacy
- ◆ Professor of the Department of Pharmacology at the Faculty of Pharmacy of the University of Valencia
- ◆ Doctor of Pharmacy



**Dr. Ortega Hernández-Agero, María Teresa**

- ◆ Specialist in Pharmacy
- ◆ Professor of the Department of Pharmacology at the Faculty of Pharmacy of the Complutense University of Madrid
- ◆ Doctor of Pharmacy

**Dr. Palomino Ruiz-Poveda, Olga**

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Associate Professor at the Department of Pharmacology, Faculty of Pharmacy, Complutense University of Madrid

**Dr. Puchol Enguádanos, Santiago Vicente**

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

**Ms. Reigada Ocaña, Inés**

- ◆ Specialist in Pharmacy
- ◆ Researcher at the University of Helsinki
- ◆ Degree in Pharmacy

**Dr. Ríos Cañavate, José Luis**

- ◆ Specialist in Pharmacy
- ◆ Professor of Pharmacology, Department of Pharmacology, Faculty of Pharmacy, University of Valencia
- ◆ Doctor of Pharmacy

**Dr. Rodilla Alama, Vicente**

- ◆ Specialist in Biology
- ◆ Professor in the Department of Pharmacy Faculty of Health Sciences at CEU Cardenal Herrera University

- ◆ D. in Biology

**Dr. Sanahuja Santafé, Maria Amparo**

- ◆ Specialist in Pharmacy
- ◆ Assistant Professor in the Department from Pharmacy at the Faculty of Health Sciences of the CEU Cardenal Herrera University
- ◆ Doctor of Pharmacy

**Dr. Sánchez Thevenet, Paula**

- ◆ Specialist in Biochemistry
- ◆ Assistant Professor in the Department of Biomedical Sciences at the Faculty of Health Sciences of the CEU Cardenal Herrera University
- ◆ D. in Biochemistry

**Dr. Soriano Guarinos, Pilar**

- ◆ Specialist in Pharmacy
- ◆ Doctor of Pharmacy
- ◆ Professor of the Department of Botany at the Faculty of Pharmacy of the University of Valencia

**Ms. Tejerina, Eva**

- ◆ Senior Consultant at Apdena Consult S.L.

**Ms. Villagrasa, Victoria**

- ◆ Specialist in Pharmacy
- ◆ Assistant Professor in the Department from Pharmacy at the Faculty of Health Sciences of the CEU Cardenal Herrera University
- ◆ Doctor of Pharmacy

# 05

# Structure and Content

The syllabus of this Professional Master's Degree has been developed taking into account the latest scientific advances and postulates in phytotherapy. Thus, students will be able to visualize a syllabus divided into 10 modules, which will lead them to delve into the cultivation of medicinal plants, their application in conditions affecting the musculoskeletal system, infectious diseases of the skin or the uses and limitations of aromatherapy. All this will be possible thanks to the library of pedagogical resources and the Relearning system, which will allow you to progress in this program in a much more natural way, even reducing the long hours of study.





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*A 100% online program that you can access 24 hours a day to the most advanced and current topics on the use of medicinal plants and active ingredients”*

### Module 1. Phytotherapy and Herbal Medicines

- 1.1. Phytotherapy: Definition and Scope of Application
- 1.2. Botanical Nomenclature and the Citation of Species in Phytotherapy
- 1.3. Current Classification of Plant Groups
- 1.4. Regulation of the European Market for Medicinal Herbal Preparations: Legal Regulations and Scope of Application
- 1.5. Cultivation, Collection, Processing and Preservation of Medicinal Plants
- 1.6. Plant-Based Drugs: Impact of Drug Recognition on the Quality of Phytotherapeutic Products
- 1.7. Mushrooms with Medicinal Utility

### Module 2. Active Ingredients of the Plants, Pharmaceutical Forms and Galenic Preparations

- 2.1. Active Ingredients: Main Groups and Properties, as a Basis that Justifies the use of Phytotherapy
- 2.2. Carbohydrates, Lipids, Proteins, and Sulfocyanogenetic Heterosides and their Therapeutic Application
- 2.3. Simple Phenols, Coumarins and Lignans and their Therapeutic Application
- 2.4. Flavonoids and their Therapeutic Application
- 2.5. Tannins and Quinones, and their Application
- 2.6. Isoprenoids, Saponins and Cardiotonic Heterosides and their Application
- 2.7. Resins and their Application
- 2.8. Alkaloids and their Application
- 2.9. Magistral Formulation in Phytotherapy
- 2.10. Other Pharmaceutical Forms in Phytotherapy
- 2.11. Industrial Processing of Herbal Medicines

### Module 3. Toxicity of Medicinal Plants and Risk Groups in Phytotherapy

- 3.1. Medicinal Plants Toxicity
- 3.2. Safety and Interactions of Medicinal Plants
- 3.3. Phytotherapy in Pediatrics
- 3.4. Phytotherapy in Pregnancy and Lactation
- 3.5. Phytotherapy in Geriatrics

### Module 4. Phytotherapy for Nervous System Disorders

- 4.1. Define the use of Phytotherapy in the Treatment of Anxiety and Sleep Disorders
- 4.2. Define the Usefulness of Phytotherapy in the Treatment of Stress and Asthenia
- 4.3. Define the Usefulness of Phytotherapy in the Treatment of Depression
- 4.4. Define the Usefulness of Phytotherapy in the Treatment of Coughs
- 4.5. Define the Usefulness of Phytotherapy in Patients with Cognitive Disorders

### Module 5. Phytotherapy for Endocrine, Metabolic and Digestive System Disorders

- 5.1. Phytotherapy in the Treatment of Obesity and Overweight People
- 5.2. Medicinal Plants that Stimulate Appetite
- 5.3. Phytotherapy and Diabetes
- 5.4. Phytotherapy in the Treatment of Dyspepsia
- 5.5. Phytotherapy for the Treatment of Flatulence. Carminative Medicinal Plants
- 5.6. Phytotherapy for the Treatment of Gastritis and Ulcers
- 5.7. Phytotherapy for Hepatic Affections and Biliary Dysfunctions
- 5.8. Phytotherapy for the Treatment of Diarrhea
- 5.9. Phytotherapy for the Treatment of Constipation
- 5.10. Phytotherapy in the Treatment of Vomiting
- 5.11. Phytotherapy in Patients with Inflammatory Bowel Disease

### Module 6. Phytotherapy for Disorders of the Locomotor System

- 6.1. Phytotherapy in Arthritis
- 6.2. Phytotherapy in Arthrosis
- 6.3. Phytotherapy for Joint Pain: Anti-Inflammatory and Analgesic
- 6.4. Medicinal Plants Muscle Relaxants for the Treatment of Muscle Contractions
- 6.5. Phytotherapy in the Treatment of Rheumatism
- 6.6. Phytotherapy in the Treatment of Gout: Uricosuric Plants
- 6.7. Phytotherapy in the Treatment of Sarcopenia
- 6.8. Remineralizing Medicinal Plants

**Module 7. Phytotherapy for Cardiovascular and Respiratory Diseases**

- 7.1. Utility of Phytotherapy in the Treatment of Heart Failure
- 7.2. Phytotherapy in the Treatment of Arterial Hypertension
- 7.3. Phytotherapy in the Treatment of Hyperlipidemia Involved in Cardiovascular Diseases
- 7.4. Phytotherapy in Venous Insufficiency Disorders
- 7.5. Phytotherapy in Respiratory Infections
- 7.6. Phytotherapy in the Treatment of Coughs
- 7.7. Phytotherapy in the Treatment of Allergic Respiratory Processes
- 7.8. Treatment of Asthma with Active Ingredients Derived from Plants. Antispasmodics
- 7.9. Phytotherapy and Herbal Active Ingredients in the Treatment of Lung Cancer

**Module 8. Module 8. Phytotherapy for Gynecological and Urinary System Affections**

- 8.1. Phytotherapy in the Treatment of Urinary Tract Infections
- 8.2. Phytotherapy in the Treatment of Water Retention
- 8.3. Phytotherapy in the Treatment of Urolithiasis
- 8.4. Phytotherapy in Patients with Benign Prostatic Hyperplasia
- 8.5. Phytotherapy in Women with Premenstrual Syndrome
- 8.6. Phytotherapy for the Treatment of Climacteric Symptomatology
- 8.7. Phytotherapy for the Treatment of Vaginal Discharge Disorders

**Module 9. Dermatological Phytotherapy**

- 9.1. Phytotherapy for Infectious Skin Diseases
- 9.2. Phytotherapy for Allergic Skin Diseases
- 9.3. Cosmetics and Phytotherapy
- 9.4. Phytotherapy for Autoimmune Skin Diseases: Vitiligo and Psoriasis
- 9.5. Phytotherapy for Scalp Disorders

**Module 10. Other Applications of Phytotherapy: Immunomodulatory Phytotherapy, Phytotherapy for Pathologies of the Sensory Organs, Phytotherapy for Parasitic Diseases and Aromatherapy**

- 10.1. Aromatherapy
- 10.2. Uses and Limitations of Aromatherapy
- 10.3. Immunostimulant Plants
- 10.4. Immunosuppressive Plants
- 10.5. Phytotherapy for the Most Frequent Conditions of the Anterior Part of the Eye
- 10.6. Phytotherapy in Otological Affections
- 10.7. Vermifuge Medicinal Plants
- 10.8. Phytotherapy for the Treatment of Other Parasitic Infections



*This university program will introduce you to the latest developments in Applied Phytotherapy".*

06

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will be confronted with multiple simulated clinical cases based on real patients, in which they will have to investigate, establish hypotheses and ultimately, resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Pharmacists learn better, more quickly and more sustainably over time.

*With TECH you will 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, attempting to recreate the actual conditions in a pharmacist's professional practice.

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*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:

1. Pharmacists who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
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.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: 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 a minimum of 8 different elements in each lesson, which represent a real revolution with respect to simply studying and analyzing cases.

*Pharmacists 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.*





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 115,000 pharmacists have been trained with unprecedented success in all clinical specialties, regardless of the surgical load. This pedagogical methodology is developed in a highly demanding environment, with a university student body with a high 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 specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to 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.



This program offers the best educational material, prepared with professionals in mind:



### Study Material

All teaching material is created specifically for the course by specialist pharmacists who will be teaching the course, so that the didactic development is highly specific and accurate.

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.



### Video Techniques and Procedures

TECH introduces students to the latest techniques, to the latest educational advances, to the forefront of current pharmaceutical care procedures. All of this, first hand, and explained and detailed with precision to contribute to assimilation and a better understanding. And best of all, you can watch them as many times as you want.



### Interactive Summaries

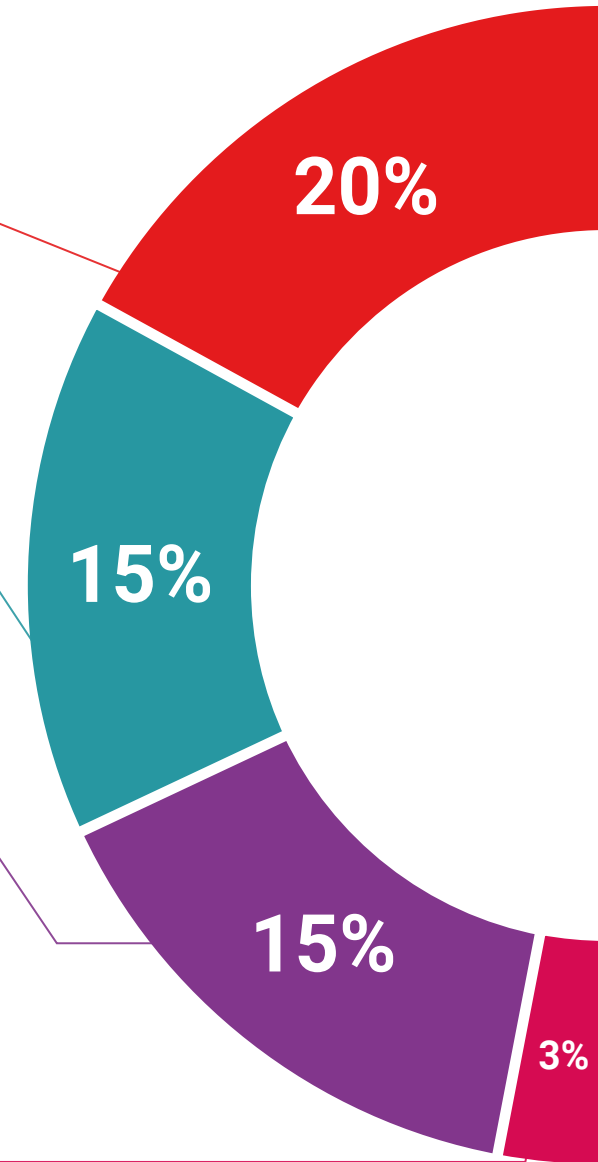
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This unique multimedia content presentation training system 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.





### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



### 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 on the usefulness of learning by observing experts. The system known as 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.



07

# Certificate

The TECH Professional Master's Degree in Advances in Applied Phytotherapy guarantees you, in addition to the most rigorous and updated training, access to a Professional Master's Degree issued by TECH Technological University.



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*Successfully complete this program  
and receive your university degree  
without travel or laborious paperwork”*

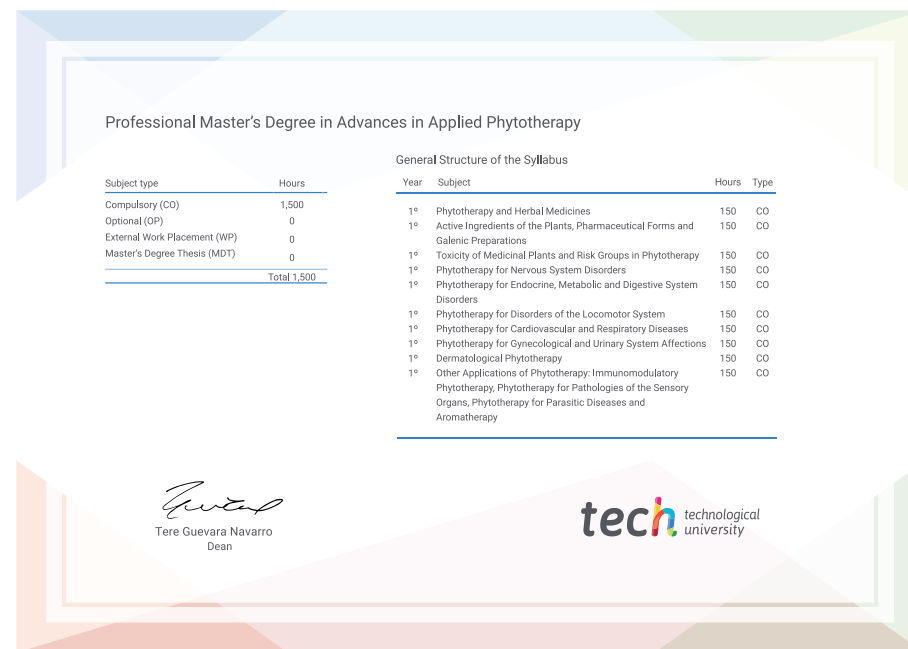
This **Professional Master's Degree in Advances in Applied Phytotherapy** contains the most complete and updated scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Professional Master's Degree** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH University** will reflect the qualification obtained in the Professional Master's Degree, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Professional Master's Degree in Advances in Applied Phytotherapy**

Official N° of hours: **1,500 h.**



\*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.

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



## Professional Master's Degree

Advances in Applied  
Phytotherapy

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

# Professional Master's Degree

## Advances in Applied Phytotherapy

