



## Postgraduate Diploma

Dermatological Phytotherapy and Other Applications of Phytotherapy

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/nutrition/postgraduate-diploma/postgraduate-diploma-dermatological-phytotherapy-other-applications-phytotherapy

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Nutrition facilitates skin care through the incorporation of foods that nourish the body with the necessary vitamins and proteins. However, sometimes the appearance of certain conditions such as acne, atopic dermatitis or eczema can be treated with natural medicines. The fusion of Phytotherapy and food and its benefits opens up a range of possibilities for professionals who wish to keep up to date with the latest advances in this field. For this reason, TECH has created this 100% online program that offers the most rigorous information on the active ingredients of plants, vegetable drugs, galenic preparations and the approach to the patient with dermatological conditions. All this, through the most advanced content, elaborated by real experts.



### tech 06 | Introduction

The use of medicinal plants to treat acne, skin conditions or diseases such as vitiligo is widespread among the population. However, the use of these phytotherapeutic products requires an advanced knowledge of their therapeutics and their limits.

Faced with this reality, professional nutritionists have the possibility of being able to integrate the latest advances in Phytotherapy into their dietary and nutritional programs, in order to provide comprehensive and advanced solutions to the main dermatological problems. This is the focus of this Postgraduate Diploma in Dermatological Phytotherapy and Other Applications of Phytotherapy.

A program consisting of 475 teaching hours that will lead the graduate to be able to carry out an effective update in this field. An update based on a syllabus prepared by an excellent team of specialists in Pharmacy and Phytotherapy, which will allow you to delve into the bases that support this discipline, the main active ingredients of plants and their manufacture.

In addition, this Postgraduate Diploma dedicates ample space to the approach of the patient with skin infections, allergies or autoimmune diseases. In addition, it expands the information with other applications of Phytotherapy that favor the recovery of pathologies of the sense organs or parasitic diseases.

An excellent opportunity to take an unique instruction in the educational panorama that meets the real needs of professionals. To access this Postgraduate Diploma, all you need is an electronic device (cell phone, *Tablet* or computer) with Internet connection to be able to visualize, at any time of the day, the content of this program. In this way, without attendance or classes with fixed schedules, students have greater freedom to self-manage their study time and make it compatible with their daily work and personal activities.

This Postgraduate Diploma in Dermatological Phytotherapy and other Applications of Phytotherapy 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 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



Thanks to the Relearning system you will be able to reduce the hours of study and focus on strengthening the key concepts of this Postgraduate Diploma"

### Introduction | 07 tech

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Do you care for patients with skin allergies? Incorporate into your nutritional programs the most recent advances in phytotherapeutic products to treat them"

The program's teaching staff includes professionals from the field who contribute their work experience to this educational 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 education 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 during the academic year For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

Get up to date on the use of mushrooms with medicinal utility through the advanced syllabus provided by TECH.

Go further in detail about the active ingredients of simple Phenols, Coumarins and Lignans and their therapeutic application.







## 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 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**

#### 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 effects 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 related 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. 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 4. Other Phytotherapy Applications: Immunomodulatory Phytotherapy, Phytotherapy for Sensory Organ Pathologies, 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



Do you want to be up to date with phytotherapeutic treatments for the treatment of skin conditions and their limits? This is the ideal Postgraduate Diploma for you"





### tech 14 | Course Management

#### **Professors**

#### Dr. Güemes Heras, Jaime

- Director of the Botanical Garden of Valencia
- Biologist and Botanic Expert
- Curator of the Botanical Garden, Cavanilles Institute of Biodiversity and Evolutionary Biology, University of Valencia
- President of the Ibero-Macaronesian Association of Botanical Gardens
- President of the Spanish Society of Plants conservation
- PhD in Biology
- Author of more than a dozen books and chapters related to biology and Botany
- Naming scientist of 31 new species for science in the International Plant Names Index

#### Dr. Soriano Guarinos, Pilar

- Researcher at the Germplasm Bank of the Botanical Garden of the University of Valencia Professor of the Department of Botany at the Faculty of Pharmacy of the University of Valencia.
- Researcher at the Cavanilles Institute of Biodiversity and Evolutionary and Biology
- Doctor of Pharmacy
- Author of more than a dozen scientific articles related to Botany

#### Ms. Izquierdo Palomares, Rosa

- Private Pharmacy Owner in the Attention to the Public and in the elaboration of Magistral Formulas
- Head of Industrial Hygiene and Ergonomics at Unión de Mutuas
- Prevention Technician Specialist in Industrial Hygiene at Unión de Mutuas
- Degree in Community Pharmacy from the University of Valencia
- Master's Degree in Industrial Hygiene and Occupational Health

#### Ms. Buendía Sánchez, Esmeralda

- Technical Pharmaceutical Director Arkopharma Laboratories
- Director of the Scientific Department, Arkopharma, S.A.
- Author of El hipérico en el tratamiento de la depresión and co-author of several publications.
- Specialist in Pharmacy

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

- Expert in Pharmacology and Pharmacognosy and Botany and scientific researcher
- Professor of the Department of Pharmacology at the Faculty of Pharmacy of the Complutense University Madrid
- Records Technician at Arkoprharma
- Doctor of Pharmacy
- Member of the Herbal Medicinal Products Committee (HMPC) of the European Medicines Agency

#### Dr. González Rosende, Eugenia

- Pharmacist and Researcher Specialized in the Therapeutic Area
- Professor in the Department from 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
- Therapist of the CEU Cardenal Herrera University
- Researcher of the group SEPLAN at CEU Cardenal Herrera University
- Doctor of Pharmacy
- Author of several specialized books on organic chemistry for the clinical profession

#### Ms. Ibars Almonacil, Ana

- Biologist at the Cavanilles Institute of Biodiversity and Evolutionary and Biology
- Professor in the area of Botany and Geology at the University of Valencia
- Co-author of: Helechos de la Comunidad Valenciana
- Member of: Cavanilles Institute of Biodiversity and Evolutionary Biology, CBiBE Research Lab and Scientific Committee of the SEFIT Conference. Phytotherapy in metabolic syndrome

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

- Independent Pharmacist and Expert in Chemical Morphophysiology and its impact on health on health
- Pharmacist in pharmacy office
- Editor at Farma13
- PhD in Pharmacy from CEU Cardenal Herrera University
- Author of more than a dozen of research that articles related the pharmacological field

#### Dr. Bejarano, María

- Histology and Pharmacy Specialist
- Pharmacist at Pharmacy Office at LKN Strategies Inc
- Trainer and promoter at LKN life
- EFG promoter trainer at Markefarm SL
- Pharmacist in pharmacy office
- Doctor of Pharmacy. CEU Cardenal Herrera University
- Degree in Histology. Botanical Garden at the University of Valencia
- Degree in Pharmacy. University of Valencia

#### Dr. Acero de Mesa, Nuria

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

#### Dr. Muñoz-Mingarro, Dolores

- Professor of the Department of Chemistry and Biochemistry, Faculty of Pharmacy, CEU San Pablo University
- Researcher
- Author of more than 30 scientific articles
- Award to the best initiative granted by Correo Farmacéutico for the book Manual de Fitoterapia
- PhD. in Biological CC from the Complutense University of Madrid
- Degree in CC Biology from the Complutense University of Madrid
- Graduate 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

### tech 16 | Course Management

#### Dr. Calatayud Pascual, Araceli

- Director of the Pharmacy Department at the Faculty Health Sciences of the CEU Cardenal Herrera University
- Assistant pharmacist in a pharmacy office
- Medicine Degree Coordinator
- Coordinator of the External Internships of Medicine
- Coordinator of the second cycle of the Degree in Medicine
- Assistant Professor in the Department university from Pharmacy at the Faculty of Health Sciences of the CEU Cardenal Herrera University
- Professor in charge of of Pharmacology in the Grade of Dentistry, CEU Cardenal Herrera University
- Participation in 41 presentations and/or communications at national and international conferences
- Researcher in 8 research projects funded by public and private institutions
- Author of various scientific publications
- Doctor of Pharmacy. Cardenal Herrera University CEU
- Degree in Pharmacy. Cardenal Herrera University CEU
- Master's Degree in Pharmaceutical Attention Pharmacy. University of Valencia
- Postgraduate Certificate in Pharmaceutical in Primary Care. University of Valencia
- Pharmacist specialized in Orthopedics. University of Valencia

#### Dr. Balaguer Fernández, Cristina

- Specialty pharmacist in transdermal administration therapies
- Vice Dean of the Faculty of Pharmacy, 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
- PhD in Pharmacy from CEU Cardenal Herrera University
- Lectures and communications in national and international congresses

#### Dr. Catalá, Pedro

- Cosmetologist
- Founder of Twelve Beauty
- Pharmacist at a private hospital based on Harley Street
- PhD in New Technologies Applied to Natural Cosmetics Formulation
- Degree in Pharmacy from the University of Valencia
- Master's Degree in Meat Science and Technology from the University of Extremadura (2007)



### Course Management | 17 tech

#### Dr. Folgado Bisbal, Ricardo V.

- Member of the Illustrious Official College of Pharmacists of Valencia
- Member of the Academy of Pharmacy of the Valencian Community
- Owner of a pharmacy in Sollana
- Founding member of the Valencia Mycological Society
- Work experience as an assistant pharmacist in a pharmacy office in the municipality of Llombay
- SILACO Executive Committee Member
- Speaker at the XXIII Jornadas de la Societat Micológica Valenciana and other congresses
- Author of several publications
- Participates in various commissions such as Phytotherapy, University and Teaching, Training and Orthopedics
- Degree in Pharmacy from the University of Valencia
- Pharmacist specialized in Orthopedics
- Continuing Education in Pharmacology of Medicines
- Postgraduate Certificate in Applied Pharmacology in Pharmaceutical Care
- Postgraduate certificate in Pharmacotherapeutic Update in Primary Care

### tech 18 | Course Management

#### Dr. Dea Ayuela, María Auxiliadora

- Ph.D. in Pharmacy Expert in Parasitology
- Assistant Professor from the Department of Biomedical Science at the Faculty of Health Sciences of in CEU Cardenal Herrera University
- Internship Tutor of the University Department at CEU Cardenal Herrera University
- CEDIC Research Collaborator
- Doctorate in Pharmacy from the Complutense University of Madrid

#### Dr. Sánchez Thevenet, Paula

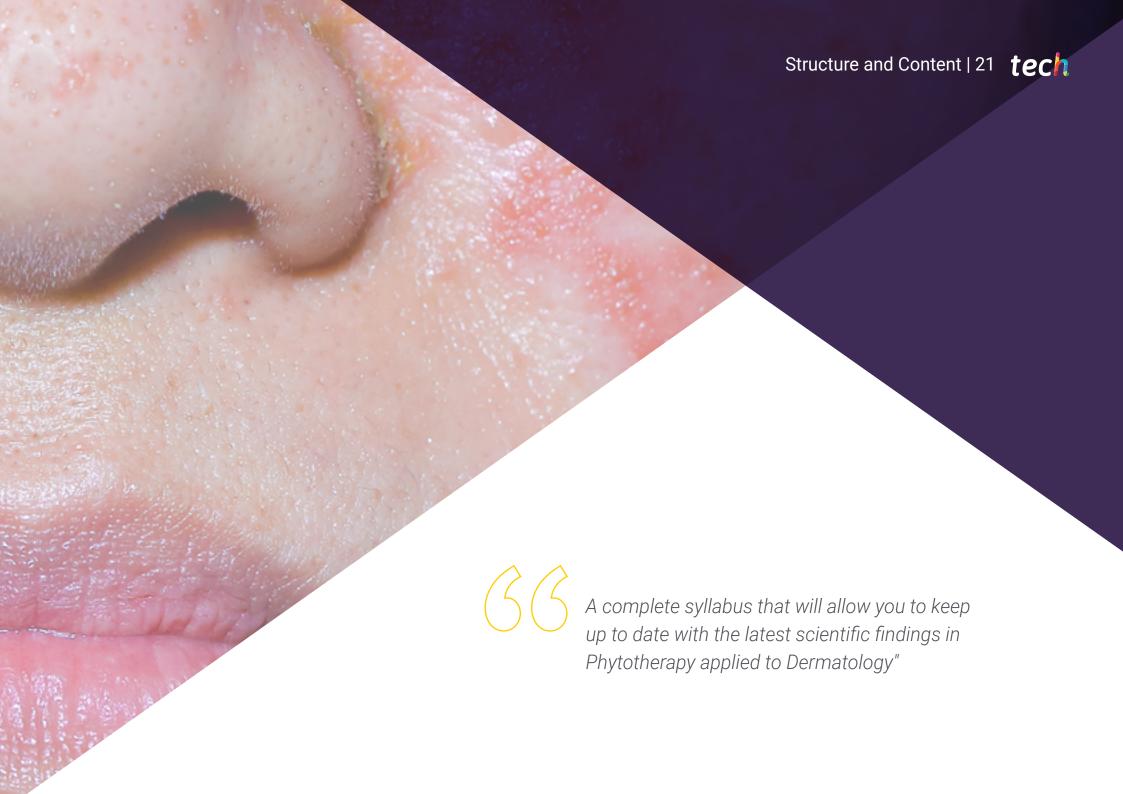
- RH CEU Castellón Project Coordinator
- Responsible for the collaborative activities of the Regional Center for Scientific Research and Development
- Senior Researcher of the Spin Off Group of the Universitat Jaume I
- Vice-Dean of the Faculty of Health Sciences for the Castellón campus of CEU Cardenal Herrera University of the University CEU Cardenal Herrera
- Assistant Professor in the Department of Biomedical Sciences at the Faculty of Health Sciences of the CEU Cardenal Herrera University
- PhD. in Biochemistry from the National University of Patagonia San Juan Bosco
- Master International in Tropical Parasitology and Diseases from the University of Valencia
- Official Master's Degree in Bioethics from the Catholic University of Valencia

#### Dr. Beltrán Sanz, Vicente

- Pharmacist with expertise in native medicinal plants for respiratory conditions
- Pharmacy office holder
- Scientific researcher expert in chemistry and medicinal plants
- Lecturer in Scientific national and international conferences
- Degree in Pharmacy







### tech 22 | Structure and Content

#### Module 1. Phytotherapy and Herbal Medicines

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

# **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. Guidelines for the proper manufacture of herbal medicines





### Structure and Content | 23 tech

#### Module 3. Dermatological Phytotherapy

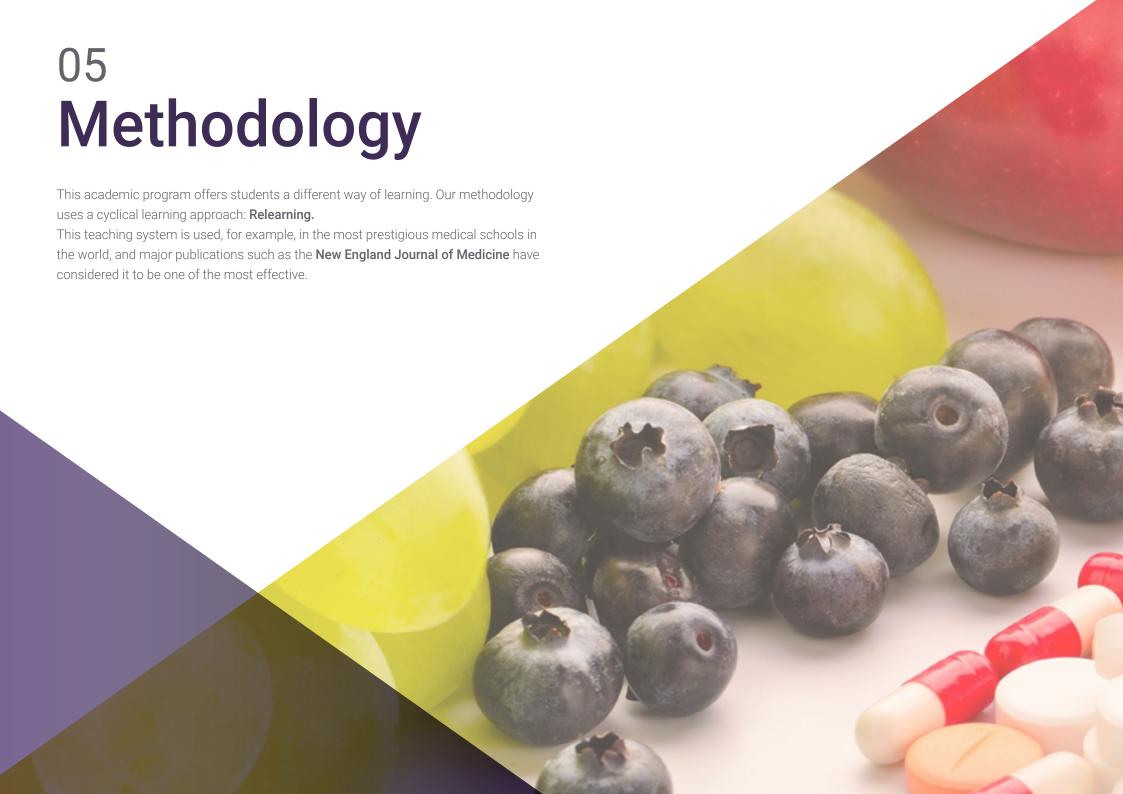
- 3.1. Phytotherapy for Infectious Skin Diseases
- 3.2. Phytotherapy for Allergic Skin Diseases
- 3.3. Cosmetics and Phytotherapy
- 3.4. Phytotherapy for autoimmune skin diseases: vitiligo and psoriasis

**Module 4.** Other Phytotherapy Applications: Immunomodulatory Phytotherapy, Phytotherapy for Sensory Organ Pathologies, Phytotherapy for Parasitic Diseases and Aromatherapy

- 4.1. Aromatherapy
- 4.2. Immunostimulant and immunosuppressive plants
- 4.3. Phytotherapy in ocular Affections
- 4.4. Phytotherapy in Otological Affections
- 4.5. Vermifuge Medicinal Plants
- 4.6. Phytotherapy for the Treatment of other Parasitic Infections
- 4.7. Mushrooms with Medicinal Utility



Incorporate the latest advances in the use of Phytotherapy to strengthen the immune system of your patients"



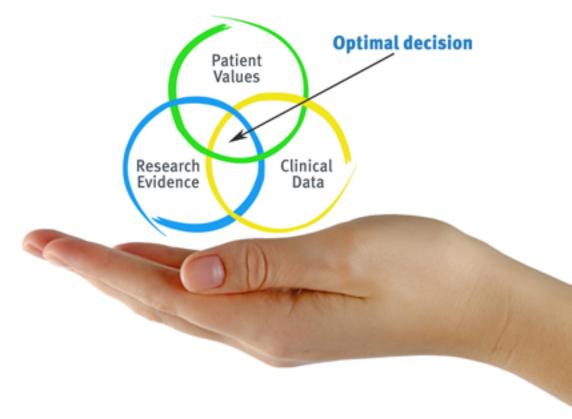


### tech 26 | Methodology

#### 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.



### tech 28 | Methodology

#### Relearning Methodology

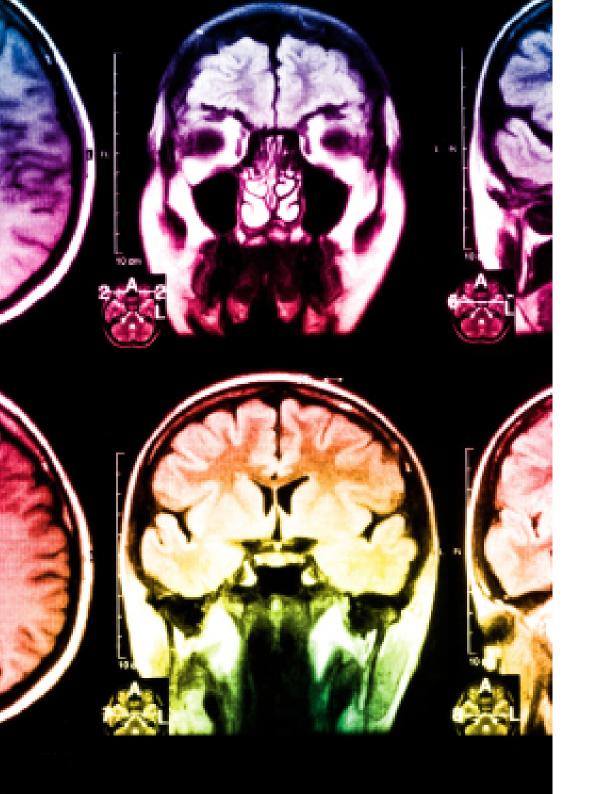
At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

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 | 29 **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.

### tech 30 | Methodology

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**

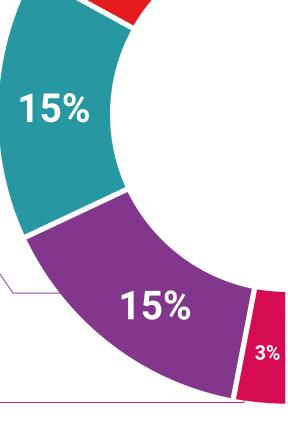
TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current nutritional counselling techniques and procedures. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all,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



Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, 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



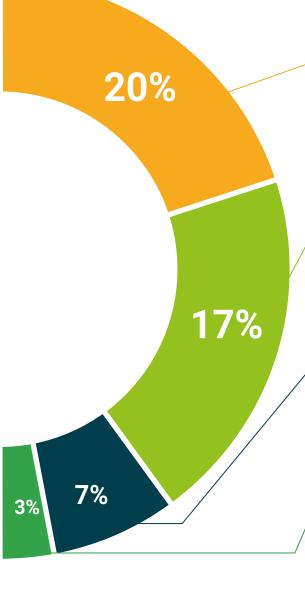
There is scientific evidence suggesting that observing third-party experts can be useful.

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.







### tech 34 | Certificate

This Postgraduate Diploma in Dermatological Phytotherapy and Other Applications of **Phytotherapy** contains the most complete and up-to-date program on the market.

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

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

Title: Postgraduate Diploma in Dermatological Phytotherapy and Other **Applications of Phytotherapy** 

Official No of Hours: 475 h.



#### **POSTGRADUATE DIPLOMA**

in

#### Dermatological Phytotherapy and Other Applications of Phytotherapy

This is a qualification awarded by this University, equivalent to 475 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

technological university

# Postgraduate Diploma

Dermatological Phytotherapy and Other Applications of Phytotherapy

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

