

Postgraduate Certificate

Skin Microbiotics in Pharmacy





Postgraduate Certificate Skin Microbiotics in Pharmacy

Course Modality: **Online**

Duration: **2 months.**

Certificate: **TECH Technological University**

6 ECTS Credits

Teaching Hours: **150 hours.**

Website: www.techitute.com/psychology/postgraduate-certificate/skin-microbiotics-pharmacy

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01

Introduction

Scientific research in the field of Microbiota has been booming in recent decades, aimed both at the study of its characteristics and its impact on our health. In each of the different locations of our body, such as the skin, mucous membranes, respiratory tract, vagina or digestive tract, we can find complex microbial ecosystems adapted to the particularities of each niche. Of all of them, the one that requires a deeper knowledge is the one found in the skin, which is why TECH professionals have designed this training program aimed at helping Pharmacists understand all aspects regarding skin microbiome. Thus, these professionals will be able to understand the reasons why certain cutaneous pathologies appear, offering a greater precision in pharmacological treatments that yield positive results for their customers.





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The study of Skin Microbiotics opens the door to a wealth of knowledge ideal for daily professional practice as a Pharmacist.

Abundant scientific evidence has demonstrated the role of skin microbiome in the appearance of various skin pathologies, giving rise to new therapeutic strategies to control and regulate these situations. The study of this ecosystem is a rapidly advancing scientific field in which it is universally accepted that to achieve an adequate state of health it is also necessary to have a "healthy" Microbiota.

Human Microbiota undergoes changes as a consequence of the influence of multiple factors, diet, lifestyle and pharmacological treatments generating, among others, which alter the bacterial ecosystem and may cause abnormal interaction with the organism, and it is related to certain processes: allergies, acute and chronic intestinal diseases, obesity and metabolic syndrome, neurological diseases, dermatitis and other alterations in the dermis, and even some types of cancer.

This Postgraduate Certificate in Skin Microbiotics focuses on providing Pharmacists with the necessary information on issues related to Cutaneous Microbiota, its Eubiosis and Dysbiosis, and related problems. This will enable you to cater for customers with this type of issue, offering them a pharmaceutical treatment of better quality and having a much clearer idea of the state of their health.

Likewise, the use of Probiotics and Prebiotics, and the growing market launch of new pharmaceutical products with very specific strains skin problems and diseases. All this content will make it possible for Pharmacy professionals to be prepared to offer effective solutions to patients with this type of pathology, knowing how to guide them so that they can recover and maintain their cutaneous microbiota and, consequently, a good state of health.

This **Postgraduate Certificate in Skin Microbiotics in Pharmacy** comprises the most complete and up-to-date scientific program on the market. The most important features of the program include:

- ♦ Study cases presented by experts in Skin Microbiotics in Pharmacy. The graphic, schematic and eminently practical contents with which they are conceived, gather scientific and practical information on the disciplines that are essential for professional practice.
- ♦ Latest developments in in Skin Microbiotics in Pharmacy.
- ♦ It contains practical exercises where the self-evaluation process can be carried out to improve learning.
- ♦ Special focus on innovative methodologies in Skin Microbiotics in Pharmacy.
- ♦ All of this will be complemented by 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 provides you with the latest knowledge on Skin Microbiotics so that you can become a successful Pharmacist"

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This Postgraduate Certificate is the best investment you can make in the selection of a training program, as it will allow you to update your knowledge as a pharmacist and take your career to the next level”

The program includes in its teaching staff professionals belonging to the field of Medicine and Pharmacy, who bring to this training the experience of their work, in addition to recognized specialists from prestigious reference societies and 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 training programmed to train in real situations.

The design of this Program focuses on Problem-Based Learning, by means of which the professional will have to try to solve the different situations of Professional Practice, which will be posed throughout the Program. The professional will be assisted by an innovative interactive video system created by renowned and experienced experts in sports nutrition.

The Postgraduate Certificate allows training through simulated environments, which provide immersive learning programed to train for real situations.

This 100% online course will allow you to combine your studies with your professional work while increasing your knowledge in this field.



02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the professional can practically and rigorously master the study of Microbiotics in daily professional practice. Consequently, the Postgraduate Certificate in Skin Microbiotics in Pharmacy responds to the continuous professional demand for quality training in this area, which serves as a vehicle to use microbiotic therapy as a means of healing skin diseases and as a preventive tool in maintaining customer health at all ages.





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This Postgraduate Certificate, designed with the latest educational technology, will allow you to learn all the advances in Cutaneous Microbiotics, making you a first level Pharmacist”



General Objectives

- ♦ This Postgraduate Certificate fulfills a need in today's society, a quality and updated training program that allows for the use of microbiological therapy as a preventive or therapeutic tool for health maintenance.
- ♦ Offer a complete and wide vision of the current situation in the area of the Human Microbiota, in its widest sense, the importance of the balance of this Microbiota as a direct effect on our health, with the multiple factors that influence it positively and negatively.
- ♦ Arguments based in scientific evidence show how Microbiota and its interaction with many non-digestive pathologies of autoimmune nature, or its relation with the dysregulation of the of the immune system, its capacity for disease prevention and as a support to other medical treatments, are all currently being given a privileged position.
- ♦ The program will promote work strategies based on the integral approach of the patient as a reference model, not only focusing on the symptomatology of the specific pathology, but also looking at its interaction with Microbiota and how the latter may be influencing it.
- ♦ Encourage professional stimulation through continuous education and research





Specific Objectives

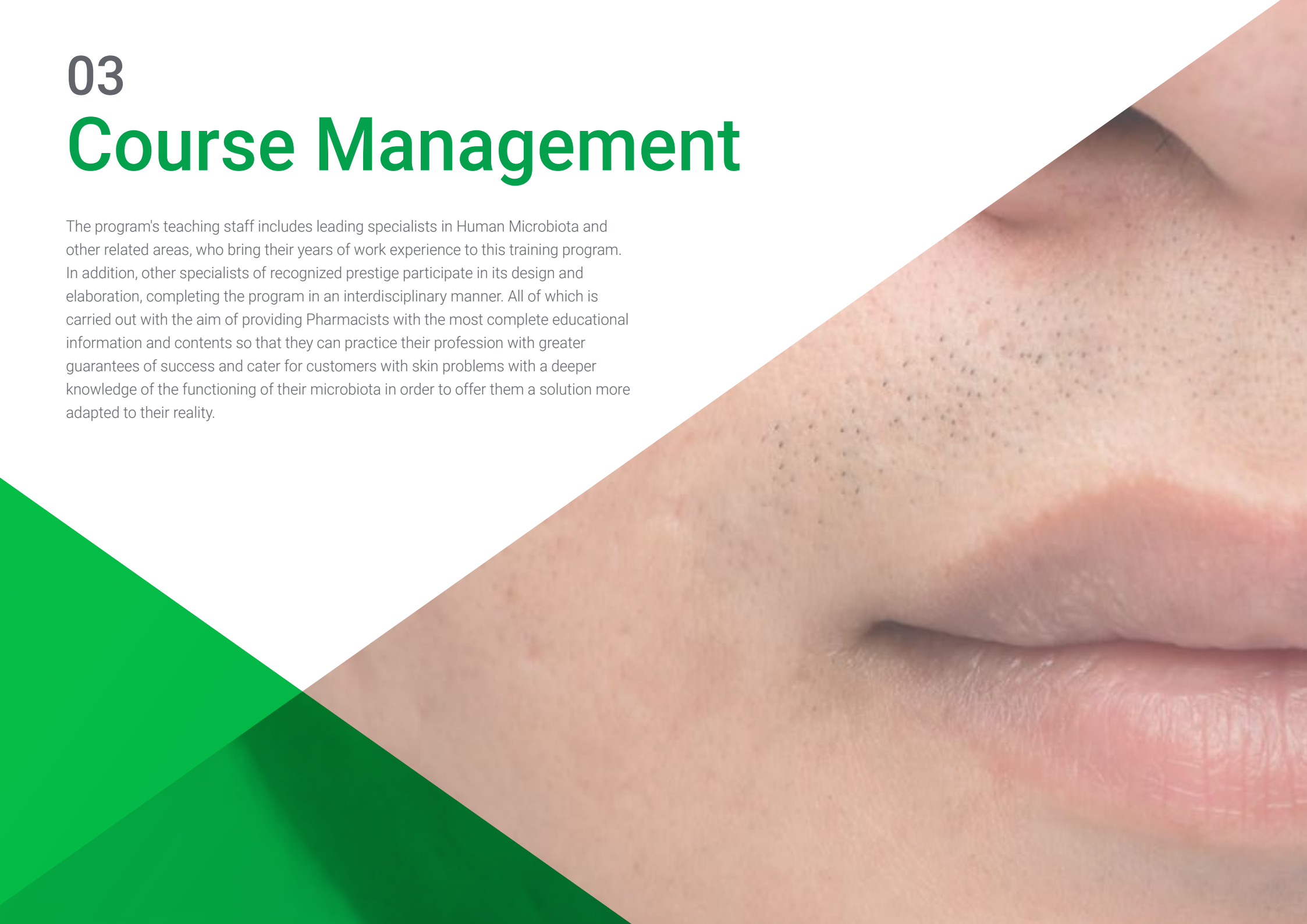
Module 1 Skin Microbiota

- ◆ Know the physiology of the skin and its microbial composition
- ◆ Understand the factors that regulate the type of bacterial flora in the skin: sweat glands, sebaceous glands, desquamation
- ◆ Delve deeper into the factors that alter the skin ecology and Microbiota.
- ◆ Know the cutaneous immune system
- ◆ Understand the factors that produce an alteration of the normal cutaneous microbiota (dysbiosis) and alteration of the barrier function.
- ◆ Know the triggered cutaneous pathologies: Psoriasis (*Streptococcus pyogenes*), Acne vulgaris, Atopic dermatitis, Rosacea
- ◆ Delve into the influence of the use of Probiotics in the prevention and treatment of different skin diseases
- ◆ Delve into the current lines of research

03

Course Management

The program's teaching staff includes leading specialists in Human Microbiota and other related areas, who bring their years of work experience to this training program. In addition, other specialists of recognized prestige participate in its design and elaboration, completing the program in an interdisciplinary manner. All of which is carried out with the aim of providing Pharmacists with the most complete educational information and contents so that they can practice their profession with greater guarantees of success and cater for customers with skin problems with a deeper knowledge of the functioning of their microbiota in order to offer them a solution more adapted to their reality.





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Learn from leading professionals the latest advances in treatments for skin problems through the use of probiotics”

Management



Mrs. Fernández Montalvo, Maria Ángeles

- ♦ Degree in Biochemistry from the University of Valencia
- ♦ Specialist Degree in Nutrition, Dietetics and Diet Therapy
- ♦ Expert in Microbiological Food Analysis
- ♦ Specialist Degree in Nutrition, Food, and Cancer. Prevention and Treatment.
- ♦ Expert in Vegetarian, Clinical, and Sports Nutrition
- ♦ Specialist in food intolerances and the study of the intestinal microbiota.
- ♦ Numerous courses on Intestinal microbiota, methods of analysis, and applications
- ♦ Diploma in Natural and Orthomolecular Medicine
- ♦ Expert in the current use of Nutricosmetics and Nutraceuticals in general.
- ♦ Expert in point-of-sale management in Pharmacies and Parapharmacies.
- ♦ Member of the Spanish Society of Probiotics and Prebiotics (SEPyP).
- ♦ Member of the Spanish Society of Dietetics (SEDCA)
- ♦ Member of the Spanish Society of Nutrition (SEÑ).

Professors

Dr. Álvarez García, Verónica

- ◆ Degree in Medicine.
- ◆ Digestive system specialist at the Central Hospital of Asturias (HUCA).

Dr. Díaz Martín, Juan José

- ◆ Pediatric gastroenterologist at the Central Hospital of Asturias (HUCA).
- ◆ Member of the Spanish Society of Pediatric Gastroenterology, Hepatology, and Nutrition.
- ◆ Associate Professor of Pediatrics at the University of Oviedo

Dr. Fernández Madera, Juan José

- ◆ Degree in Medicine.
- ◆ Specialist in Clinical Allergology and Immunology.
- ◆ Specialist in Sports Medicine.

Dr. Gonzalez Rodríguez, Silvia P.

- ◆ PhD in Medicine and Surgery from the University of Alcalá de Henares, specialty in Gynecology.
- ◆ Deputy Medical Research Coordinator and Clinical Chief of the Menopause and Osteoporosis Unit at the Velázquez Medical Cabinet (Madrid).

Dr. Lombó Burgos, Felipe

- ◆ Doctor in Biology from the University of Oviedo.
- ◆ Full professor at the University of Oviedo.

Dr. López López, Aranzazu

- ◆ Ph.D. in Biological Sciences
- ◆ Researcher in oral microbiology at the FISABIO Foundation.
- ◆ Public Health Research Center of Valencia.

Dr. Méndez García, Celia

- ◆ Doctorate in Microbiology from the University of Oviedo.
- ◆ Research at Novartis Laboratories (Boston).

Dr. Solís Sánchez, Gonzalo

- ◆ Neonatologist at the Central University Hospital of Asturias (HUCA).
- ◆ Researcher, Associate Professor at the University of Oviedo.

Dr. Suárez Rodríguez, Marta

- ◆ Neonatologist at the Central University Hospital of Asturias (HUCA).
- ◆ Researcher and Professor in the Professional Master's Degree in Early Care and the Professional Master's Degree in Critical Care Nursing at the University of Oviedo and other training courses.

04

Structure and Content

The structure of the contents has been designed by a team of professionals from the best hospital centers and universities in the country, who are aware of the relevance of up-to-date training to be able to prevent, detect, and treat pathologies related to alterations in Skin microbiota, and are committed to quality teaching through new educational technologies. All of which aimed at training Pharmacists to be much more competent and prepared to offer treatments that help and favor the cutaneous microbiome of their customers.



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*The best contents are at the best University.
Don't miss the opportunity to obtain your
qualification in Skin Microbiotics with greater
guarantees of success”*

Module 1 Skin Microbiotics in Pharmacy

Skin Physiology Microbial Composition of the Skin

- 1.2. Factors that Regulate the Type of Bacterial Flora in the Skin: Sweat Glands, Sebaceous Glands, Desquamation
- 1.3. Factors that Alter the Ecology of the Skin and the Microbiota
- 1.4. Cutaneous Immune System Epidermis; Essential Element of our Defences
 - 1.4.1. Elements of the Skin Immune System: Cytokines, Keratinocytes, Dendritic Cells, Lymphocytes, Antimicrobial Peptides
 - 1.4.2. Influence of the Skin Microbiota on the Skin Immune System Staphylococcus Aureus
- 1.5. Alteration of the Normal Cutaneous Microbiota (Dysbiosis) and Alteration of the Barrier Function
- 1.6. Triggered Skin Diseases: Psoriasis (Streptococcus Pyogenes), Acne vulgaris, Atopic Dermatitis, Rosacea
- 1.7. Influence of the Use of Probiotics in the Prevention and Treatment of Different Skin Diseases
- 1.8. Current Lines of Research





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A unique, key, and decisive training experience to boost your professional development”

05

Methodology

This training provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

This teaching system is used 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 Re-learning, 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

In a given clinical situation, what would you do? Throughout the program you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Pharmacists learn better, more quickly and more sustainably over time.

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



According to Dr. Gervas, 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, 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 achieve the assimilation of concepts, but also develop their mental capacity through exercises to evaluate real situations and apply their knowledge.
2. The learning process has a clear focus on 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.



Re-Learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

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 Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 115,000 students with unprecedented success, in all clinical specialties, regardless of the surgical load. Our 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 old.

Re-learning 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 to success.

In our program, learning is not a linear process, but rather a spiral (we learn, unlearn, forget, and re-learn). Hence, we combine each of these elements concentrically.

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



In this program you will have access to the best educational material, prepared with you 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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Video Techniques and Procedures

We bring you closer to the latest techniques, to the newest educational advances, to the forefront of current pharmaceutical care procedures. 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 multimedia content presentation training system 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

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 & Re-testing

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your 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 our future difficult decisions.



Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



06

Certificate

The **Postgraduate Certificate in Skin Microbiotics in Pharmacy** guarantees, in addition to the most rigorous and updated specialization, access to a Certificate issued by **TECH Technological University**.



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

This **Postgraduate Certificate in Skin Microbiotics in Pharmacy** comprises the most complete and up-to-date program on the market.

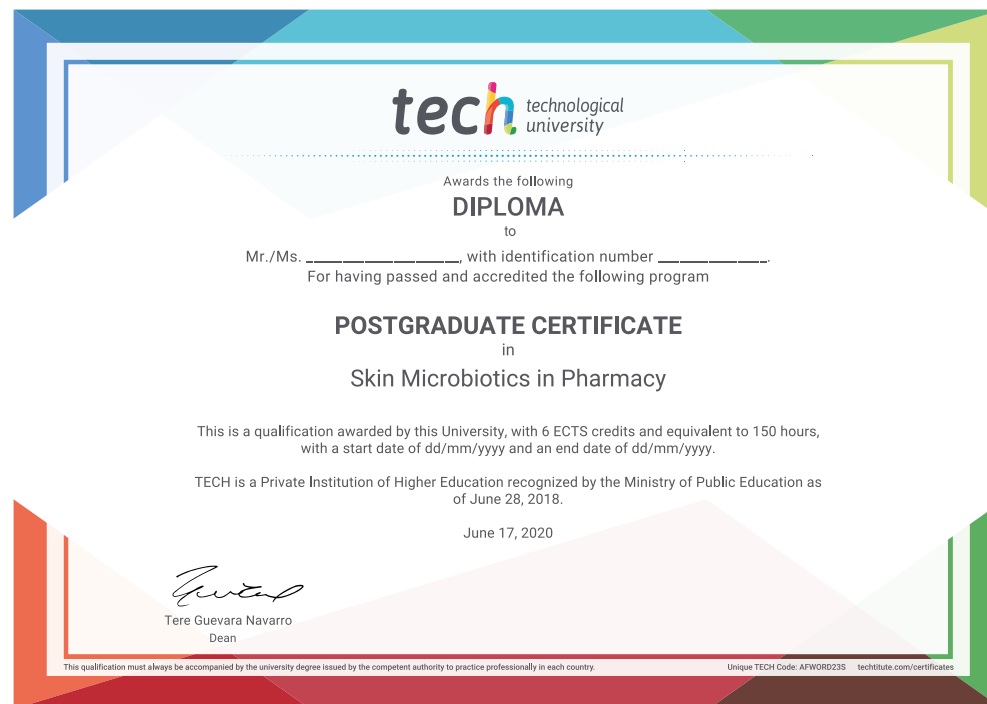
After passing the evaluations, the student will receive by mail with acknowledgment of receipt the corresponding **Postgraduate Certificate** issued by **TECH Technological University**.

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

Title: **Postgraduate Certificate in Skin Microbiotics in Pharmacy**

ECTS: **6**

Official Number of Hours: **150**



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



Postgraduate Certificate

Skin Microbiotics in Pharmacy

Course Modality: Online

Duration: 2 months.

Certificate: TECH Technological University

6 ECTS Credits

Teaching Hours: 150 hours.

Postgraduate Certificate

Skin Microbiotics in Pharmacy

