

# Postgraduate Certificate Cosmetic Ingredients



## Postgraduate Certificate Cosmetic Ingredients

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

Website: [www.techtute.com/us/pharmacy/postgraduate-certificate/cosmetic-ingredients](http://www.techtute.com/us/pharmacy/postgraduate-certificate/cosmetic-ingredients)

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# 01

# Introduction

The continuous research carried out in the field of cosmetics has made it possible to implement an endless number of natural and synthetic ingredients with diverse properties to combat dermatological consequences caused by age, diseases, accidents, etc., into product development strategies. In order for professionals to get up to date on the properties, benefits and opportunities arising from their use, TECH has developed this 100% online program. In this way, they will be able to work on updating their knowledge in an austere and versatile way, perfecting their professional skills in only 180 hours of the best educational experience.





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*A 100% online qualification designed for you to implement the most innovative and effective ingredients in the cosmetic sector in your products"*

The field of cosmetics has undergone a revolution in the last decade with the increasingly frequent use of ingredients with various healing and repairing properties. Continuous research has resulted in the discovery of the benefits of, for example, centella asiatica, neem oil or beta hydroxy acids, important components that are used today to promote healing, the cure of certain skin pathologies such as acne or exfoliation and, in general, skin care.

The amount of information that exists on the subject and the data that is continually being added, makes it difficult for many professionals in the pharmaceutical sector to keep up to date, which is why TECH has considered it necessary to launch this postgraduate certificate. It is a 100% online program that includes the most up-to-date and exhaustive content, selected by a team of experts in cosmetic science and technology and developed based on the best pedagogical methodology currently available: Relearning.

The program, distributed over 6 weeks and presented in a convenient and accessible 100% online format, includes 180 hours of high-quality additional material, an intensive and austere syllabus and case studies based on real situations. It is, therefore, a unique educational opportunity that the specialist should not miss if he/she is looking to update his/her knowledge and perfect his/her professional skills in the use of the latest and most effective cosmetic ingredients.

This **Postgraduate Certificate in Cosmetic Ingredients** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ◆ Practical cases presented by experts in Cosmetic Science and Technology
- ◆ 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 provides you with the most up-to-date information on the different natural active ingredients (vegetable, animal and mineral): their characteristics, advantages, applications...*”

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*You will work on the specifications of the latest surfactants, emulsifiers and rheology modifiers discovered and their use in cosmetic formulation"*

The program's teaching staff includes professionals from the sector 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.

The design of this program focuses on problem-based learning, through which the professional must try to solve the different professional practice situations that arise throughout the program. This will be done with the help of an innovative system of interactive videos made by renowned experts.

*You will have 6 weeks to pass the Postgraduate Certificate and you will be able to organize the certificate in a totally personalized way and adapted to your availability.*

*As long as you have an internet connection, you will be able to access the content of this postgraduate certificate from any device.*



# 02 Objectives

The dizzying pace at which the cosmetics industry is advancing and the new developments that arise from it has led TECH to assess the need for a program that will help pharmacists to keep up to date. This postgraduate certificate is a comprehensive and multidisciplinary teaching experience whose objective is to guide you in updating your knowledge through the latest topics and the best teaching tools.





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*You will have 180 hours of the best theoretical, practical and additional content, so that you can achieve your educational objectives in a guaranteed way"*



## General Objectives

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- ◆ Analyze the main active ingredients according to their origin and nature
- ◆ Compile all compounds needed to formulate cosmetic products
- ◆ Determine the different types of Cosmetic Product according to their Composition
- ◆ Evaluate the benefits of nanotechnology and biotechnology in cosmetics

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*If you are looking to update your knowledge in the operation and classification of chemical and physical sunscreens, this program will exceed even your most demanding expectations”*





## Specific Objectives

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- ◆ Analyze the most commonly used natural and synthetic active ingredients and main properties
- ◆ Evaluate the role of vitamins and biological compounds in cosmetic products
- ◆ Examine the main types of sunscreens, properties and features
- ◆ Identify the main compounds in cosmetic formulations
- ◆ Determine new trends in cosmetic product formulation and their benefits
- ◆ Demonstrate how science has enhanced cosmetics

03

# Course Management

Having the support of a teaching team versed in the area in which a qualification program is developed allows graduates not only to get more out of it, but also to achieve their objectives more quickly and optimally. For this reason, for each of the programs offered by TECH, a group of professionals with a broad and extensive work experience, in this case in the pharmaceutical field, is selected. In addition, they are active specialists, which will make the content even more current and critical.



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*The teaching team has selected real case studies so that you can work on perfecting your skills in an active, dynamic and, above all, realistic way"*

## Management



### Dr. Mourelle Mosqueira, María Lourdes

- ◆ Expert researcher in Cosmetic Science
- ◆ Technical Director at Balcare
- ◆ Researcher of the FA2 group of the Applied Physics Department of the University of Vigo
- ◆ Author of publications on Cosmetic Science
- ◆ Lecturer in undergraduate and graduate programs related to Cosmetic Science
- ◆ President of the Iberoamerican Society of Thalassotherapy
- ◆ Secretary of the Galician Society of Thermal Peloids
- ◆ PhD in Applied Physics, University of Vigo
- ◆ Degree in Pharmacy, University of Santiago de Compostela
- ◆ Diploma in Nutrition and Dietetics, University of Granada

## Professors

### Dr. Pando Rodríguez, Daniel

- ◆ CEO Cofounder of Nanovex Biotechnologies
- ◆ Director of INdermal
- ◆ Researcher in Biotechnology for Medicine and Cosmetics
- ◆ PhD in Chemical Engineering, University of Oviedo
- ◆ Degree in Chemical Engineering, University of Oviedo
- ◆ Master's Degree in Business Administration and Project Management, ENEB



# 04

# Structure and Content

Both the information used for the development of the syllabus, as well as the material that includes additional content, have been prepared and selected by the teaching team. In this way, TECH guarantees the course of a specialized and austere program, based on the latest developments in the pharmaceutical sector. In addition, its convenient 100% online format provides an accessible and versatile character that will help graduates to catch up and perfect their professional skills in only 180 hours.





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*TECH has included in the program the most up-to-date information for the management of biotechnological tools for cosmetics, so that you can implement them in your practice from the beginning of the program"*

## Module 1. Cosmetic Ingredients

- 1.1. Active Ingredients of Natural Origin I: Vegetable Origin
  - 1.1.1. Plant-Derived Active Ingredients in Skin Care
  - 1.1.2. Plant-Derived Active Ingredients in Hair Care
  - 1.1.3. Other Applications of Plant-Derived Active Ingredients
- 1.2. Active Ingredients of Natural Origin II: Animal and Mineral Origin
  - 1.2.1. Animal and Mineral-Derived Active Ingredients in Skin Care
  - 1.2.2. Animal and Mineral-Derived Active Ingredients in Hair Care
  - 1.2.3. Other Applications of Animal and Mineral-Derived Active Ingredients
- 1.3. Synthetic Active Ingredients
  - 1.3.1. Synthetically Derived Active Ingredients in Skin Care
  - 1.3.2. Synthetically Derived Active Ingredients in Hair Care
  - 1.3.3. Other Applications of Synthetically Derived Active Ingredients
- 1.4. Vitamins and Biological Compounds
  - 1.4.1. Vitamins in Cosmetics
  - 1.4.2. Proteins Peptides in Cosmetics
  - 1.4.3. Prebiotics and Probiotics in Cosmetics
  - 1.4.4. Other Biological Compounds in Cosmetics
- 1.5. Sunscreens
  - 1.5.1. Sunscreens in cosmetics: operation and classification
  - 1.5.2. Chemical Sunscreens
  - 1.5.3. Physical Sunscreens
- 1.6. Surfactants, Emulsifiers and Rheology Modifiers
  - 1.6.1. Surfactants and Emulsifiers: Structures, Properties and Types
  - 1.6.2. Use of Surfactants and Emulsifiers in Cosmetic Formulations
  - 1.6.3. Rheology Modifiers
- 1.7. Colorants and Pigments
  - 1.7.1. Natural and Synthetic Dyes
  - 1.7.2. Organic and Inorganic Pigments
  - 1.7.3. Formulations with Dyes and Pigments



- 1.8. Preservatives
  - 1.8.1. Uses of Preservatives in Cosmetics
  - 1.8.2. Preservatives of Natural Origin
  - 1.8.3. Preservatives of Synthetic Origin
- 1.9. Biotechnology in Cosmetics
  - 1.9.1. Biotechnology in Cosmetics
  - 1.9.2. Biotechnological Tools for Cosmetics
  - 1.9.3. Cosmetic Active Ingredients Derived from Biotechnology
- 1.10. Nanotechnology in Cosmetics
  - 1.10.1. Nanotechnology in Cosmetics
  - 1.10.2. Nanotechnological Tools and Systems in Cosmetics
  - 1.10.3. Uses of Nanotechnological Systems: Advantages and Benefits



*An advanced program with a view to the future: you will be able to delve into the use of nanotechnology in the cosmetic field and the possibilities of these techniques for the effective and optimal elaboration of products"*

05

# 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.





*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. 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 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.



06

# Certificate

The Postgraduate Certificate in Cosmetic Ingredients guarantees students, in addition to the most rigorous and up-to-date education, access to a certificate issued by TECH Global University.



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*Successfully complete this program  
and receive your university qualification  
without having to travel or fill out  
laborious paperwork”*

This program will allow you to obtain your **Postgraduate Certificate in Cosmetic Ingredients** 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 Cosmetic Ingredients**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



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 Cosmetic Ingredients

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

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