



Postgraduate Certificate

Cosmetic Formulation and Composition

» Modality: online

» Duration: 12 weeks

» Certificate: TECH Global University

» Credits: 12 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/medicine/postgraduate-certificate/cosmetic-formulation-composition

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tech 06 | Introduction

Cosmetic products require an arduous process of collecting materials, studying them and their composition in order to obtain the expected result. It is for this reason that the medical professionals have to update their knowledge for a correct formulation of the product, in order to be effective in any dermatological treatment and to incorporate the pharmaceutical and technological advances in the industry.

Thus, TECH has created this program, where the professionals will deepen in new knowledge from the hand of professional experts in the field in order to know the latest procedures covering the formulation and composition. This is a 100% online program designed for the physician who wishes to identify new methods and techniques for the creation of cosmetics.

In addition, it is a program that guarantees accessibility through any device with Internet connection, which will allow physicians to access the Virtual Campus without time restrictions. Last but not least, all the material can be downloaded and reviewed at the professional's discretion, so that they can also draw their own conclusions from the latest developments in the medical field of skin care.

This **Postgraduate Certificate in Cosmetic Formulation and Composition** 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
- 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



Decide at what time you want to review the program material, study it and face it to solve your doubts regarding the latest updates"



Get up to date with new information regarding Cosmetic Formulation and Composition, a sector in high demand in the medical field"

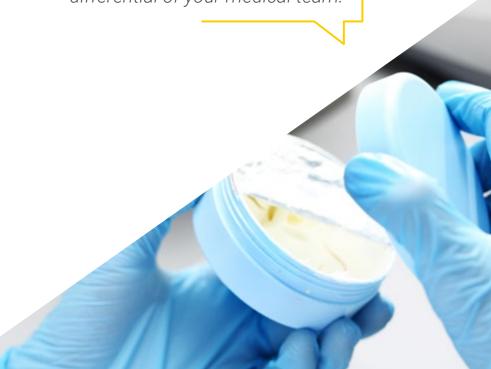
The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will provide the professionals with situated and contextual learning, i.e., a simulated environment that will provide an immersive education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professionals must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the students will be assisted by an innovative interactive video system created by renowned experts.

A 100% online program that will allow you to connect from anywhere and at any time. You will only need a mobile device and Internet connection.

You will be able to acquire the latest cosmetic updates and be the differential of your medical team.







tech 10 | Objectives



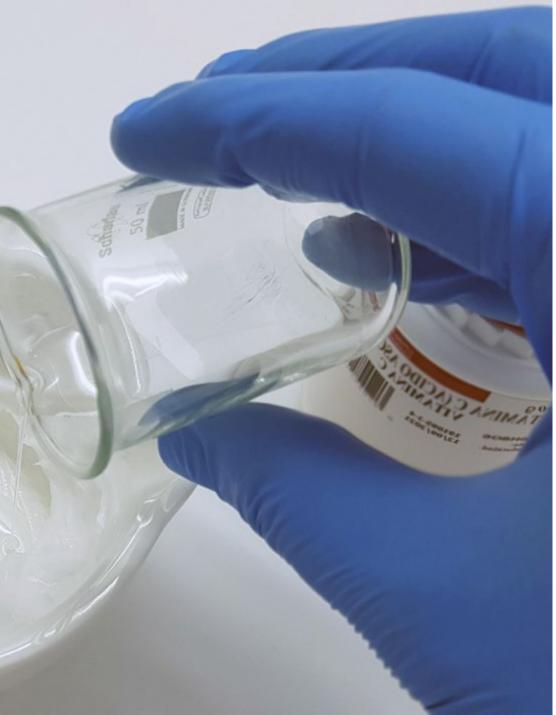
General Objectives

- Identify skin alterations affecting keratinization, sebaceous secretion, vascularization and pigmentation
- Identify the alterations produced by aging
- Identifying hair and scalp disorders
- Identify the alterations of the oral cavity



Deepen in the formulation and composition of cosmetics for the different cases that you may encounter in the laboratory or in your daily practice"







Module 1. Cosmetic Forms and Formulation Criteria I. Face and Body Cosmetics

- Analyze cosmetic forms and applications
- Evaluate the ingredients in skin hygiene
- Identify the importance of skin hydration, relevant factors and how to treat dehydration
- Determine action mechanisms in cosmetic ingredients used in skin disorder care and treatment
- Develop active ingredients and cosmetic forms in aging prevention and treatment products
- Establish action mechanisms in body treatment ingredients
- Compile market novelties in cosmetic ingredients
- Evaluate action mechanisms in active ingredients used in male skin care
- Generate specialized knowledge on the different aspects involved in hair care

Module 2. Cosmetic Forms and Formulation Criteria II. Solar, Decorative and Area Specific Cosmetics

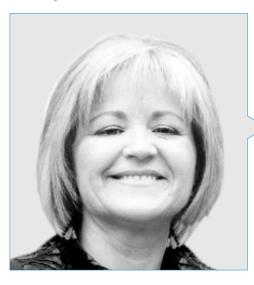
- Analyze the cosmetics used in each sector of the population and to each need
- Compile active ingredients and their uses in each product
- Analyze sun protection as the main factor in preventing skin aging and identify the different products on the market
- Examine market products that include chemical depilatory; advantages and disadvantages
- Evaluate active ingredients with specific activity and how to incorporate them into formulations
- Establish factors in choosing children's products
- Determine the different substances involved in elaborating a perfume and the different olfactory families on the market





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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



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Professors

Dr. Abril González, Concepción

- Chemistry Specialist in Chromatography at Bordas S.A.
- Food Products Analyst for foreign trade at the Technical Inspection of Soivre in Seville
- Chromatography Analyst at Agrama Laboratories
- * Researcher in the Analytical Chemistry Department at Anquimed
- PhD in Analytical Chemistry, University of Seville
- Professional Master's Degree in Professional Specialization in Pharmacy: Pharmaceutical Industry, University of Seville
- Professional Master's Degree in Cosmetics and Dermopharmacy from the University of Seville
- Professional Master's Degree in Chemisty, University of Seville

Ms. González Berdugo, Antonia María

- Responsable técnica de Cosmética en Best Medical Diet
- Head of Cosmetic R&D&I at Best Medical Diet
- R&D laboratory technician at The Colomer Group
- R&D Laboratory Technician at *Biomedal*
- Master's Degree in Biotechnology, Pablo de Olavide University
- Professional Master's Degree in Cosmetics and Dermopharmacy from the Centro de Estudios Superiores de Industria of the Pharmaceutical Industry





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Module 1. Cosmetic Forms and Formulation Criteria I. Face and Body Cosmetics

- 1.1. Cosmetic Forms
 - 1.1.1. Cosmetic Forms. Chemical Basis
 - 1.1.2. Cosmetic Forms Classification
 - 1.1.3. Cosmetic Forms
 - 1.1.3.1. Features
 - 1.1.3.2. Components
 - 1.1.3.3. Applications
- 1.2. Facial Hygiene Cosmetics
 - 1.2.1. Facial Hygiene and Detoxification
 - 1.2.2. Facial Hygiene Cosmetics: Gels, Scrubs, Emulsions, Foams, Micellar Waters, Toners, Oils, etc
 - 1.2.3. Cosmetic Ingredients Used in Facial Hygiene
- 1.3. Facial Maintenance and Moisturizing Cosmetics
 - 1.3.1. Moisturizing and Skin Care
 - 1.3.2. Factors Leading to Skin Dehydration
 - 1.3.3. Cosmetic Textures according to Facial Application and Skin Type
 - 1.3.4. Novel Active Ingredients with Moisturizing Efficacy
- 1.4. Cosmetics for the Treatment of Facial Skin Alterations I. Acne, Atopy and Rosacea
 - 1.4.1. Cosmetics for Dermatological Alterations: Acne, Hyperseborrhea and Oily Skin
 - 1.4.1.1. Acne
 - 1.4.1.2. Hyperseborrhea
 - 1.4.1.3. Oily Skin
 - 1.4.2. Cosmetics for Dermatological Alterations: Atopic Skin and Atopic Dermatitis
 - 1.4.2.1. Atopic Skin
 - 1.4.2.2. Atopic Dermatitis
 - 1.4.3. Cosmetics for Dermatological Alterations: Couperose and Rosacea
 - 1.4.3.1. Couperosis
 - 1.4.3.2. Rosacea
- 1.5. Cosmetics for the Treatment of Facial Skin Alterations II. Hyperpigmentation
 - 1.5.1. Cosmetics for Dermatological Alterations
 - 1.5.1.1. Hyperpigmentation
 - 1.5.1.2. Skin Blemishes: Vitiligo
 - 1.5.1.3. Melasma

- 1.5.2. Cosmetic Active Ingredients for Specific Alterations
- 1.5.3. New Market Products for the Treatment of Skin Alterations
- 1.6. Anit-Aging Cosmetics
 - 1.6.1. Factors that Cause Skin Aging
 - 1.6.2. Premature Aging Prevention
 - 1.6.3. Novel Active Ingredients to Prevent and Treat Skin Aging
- 1.7. Body Cosmetics
 - 1.7.1. Body Hygiene and Treatment: Cosmetic Forms
 - 1.7.2. Body Alterations: Causes and Treatments
 - 1.7.2.1. Cellulite-Stretch Marks-Vascularization
 - 1.7.2.2. Active Ingredients and Cosmetic Forms
 - 1.7.3. Hand and Foot Care
 - 1.7.4. Prototype Formulations
 - 1.7.4.1. Active Ingredients Mechanism of Action
- 1.8. Male Cosmetics
 - 1.8.1. Male Skin Physiology: Differential Aspects
 - 1.8.2. Shaving Cosmetics: Follicle Alterations
 - 1.8.3. Beard Care
 - 1.8.3.1. Cosmetic Forms Proposals
 - 1.8.3.2. New Products on the Market
- 1.9. Hair Cosmetics I. Hygiene, Moisturizing and Treating Alterations
 - 1.9.1. Hair and Scalp Alterations
 - 1.9.2. Cosmetics for Hair Fiber Hygiene and Care
 - 1.9.3. Cosmetics for the Treatment of Greasy Scalp
 - 1.9.4. Cosmetics for the Treatment of Pityriasis
 - 1.9.5. Cosmetics for the Prevention and Treatment of Hair Loss
 - .9.6. Novel Active Ingredients for Hair Care
- 1.10. Hair Cosmetics II. Cosmetics for Color Changes
 - 1.10.1. Undulating Cosmetics: Active Substances and Mechanisms of Action
 - 1.10.2. Types of Cosmetics for Color Changes: Bleaches and Dyes
 - 1.10.3. Vegetable Dyes and Metallic Dyes: Ingredients and Mechanisms of Action
 - 1.10.4. Permanent and Semi-Permanent Dyes
 - 1.10.4.1. Ingredients and Mechanisms of Action

Module 2. Cosmetic Forms and Formulation Criteria II. Solar, Decorative and Area Specific Cosmetics

- 2.1. Sun Protection I. Effects of Solar Radiation
 - 2.1.1. Solar Radiation
 - 2.1.1.1. UV Radiation, VIS Light and IR Radiation
 - 2.1.1.1.1 HEV Radiation or Blue Light
 - 2.1.2. Beneficial and Harmful Effects
 - 2.1.3. Sunscreen Formulation and Requirements
- 2.2. Solar Protection II. Sun Protection Cosmetics
 - 2.2.1. Sun Protection Cosmetics
 - 2.2.2. Self-Tanning Cosmetics
 - 2.2.3. Tanning Accelerator Cosmetics
- 2.3. Decorative Cosmetics I. Ingredients
 - 2.3.1. Ingredients and Cosmetic Forms
 - 2.3.2. Components of Cosmetic Makeups
 - 2.3.3. Natural and Synthetic Pigments
- 2.4. Decorative Cosmetics II. Types
 - 2.4.1. Facial Makeup
 - 2.4.2. Eye Makeup
 - 2.4.3. Lipstick
 - 2.4.4. Nail Varnishes: Features and Evaluation Methods Used
- 2.5. Cosmetics for Hair Treatment
 - 2.5.1. Depilatory Cosmetics
 - 2.5.2. Advantages and Disadvantages of Depilatory Cosmetics
 - 2.5.3. Waxes
 - 2.5.3.1. Cold Waxes
 - 2532 Warm Waxes
 - 2.5.3.3. Hot Waxes
 - 2.5.4. Bleaching Agents
 - 2.5.5. Hair Growth Retardant Active Ingredients
- 2.6. Deodorants and Antiperspirants
 - 2.6.1. Sweat Physiology
 - 2.6.2. Deodorants and Antiperspirants
 - 2.6.3. Specific Active Ingredients

- 2.7. Children's Cosmetics
 - 2.7.1. Features of Children's Skin
 - 2.7.2. Possible Alterations in Children's Skin
 - 2.7.3. Children's Cosmetics
- 2.8. Oral Cavity Cosmetics
 - 2.8.1. Mouthwash Components
 - 2.8.2. Toothpaste Components
 - 2.8.3. Toothbrushes and Oral Irrigators
- 2.9. Intimate Hygiene Cosmetics
 - 2.9.1. General Aspects
 - 2.9.2. Active Ingredientes and Uses
 - 2.9.3. Gels and Ointments
- 2.10. Perfumes
 - 2.10.1. Perfume
 - 2.10.2. Odoriferous Substances
 - 2.10.2.1. Essential Oils
 - 2.10.2.2. Extracts
 - 2.10.2.3. Pure Chemical Substances
 - 2.10.2.4. Synthetic Essences
 - 2.10.3. Olfactory Families



Don't think twice and opt for a program that adapts to you and your academic and professional needs, and with which you will be able to improve your skills through a comprehensive update'





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At TECH we use the Case Method

What should a professional do in a given situation? 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 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, trying to recreate the real conditions in the physician's professional 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:

- Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate real situations and the application of 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.

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.

Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.



Methodology | 25 tech

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

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

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.

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



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. 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.

Expert-Led Case Studies and Case Analysis

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 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.









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This program will allow you to obtain your **Postgraduate Certificate in Cosmetic Formulation and Composition** 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 Formulation and Composition

Modality: online

Duration: 12 weeks

Accreditation: 12 ECTS



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

Postgraduate Certificate in Cosmetic Formulation and Composition

This is a program of 360 hours of duration equivalent to 12 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



^{*}Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

health confidence people
leducation information tutors
guarantee accreditation teaching
institutions technology learning



Postgraduate Certificate Cosmetic Formulation and Composition

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Global University
- » Credits: 12 ECTS
- » Schedule: at your own pace
- » Exams: online

