



Postgraduate Certificate

Oral and Respiratory Microbiota for Nutritionists

Course Modality: Online

Duration: 2 months.

Certificate: TECH Technological University

8 ECTS Credits

Teaching Hours: 200 hours.

Website: www.techtitute.com/us/nutrition/postgraduate-certificate/oral-respiratory-microbiota-nutritionists

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Certificate

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tech 06 | Introduction

Numerous scientific evidences have implicated the respiratory microbiome and its potential impact on various disease states in recent years. All this has given rise to new therapeutic strategies aimed at controlling and regulating this ecosystem. The study of this ecosystem is a field that is rapidly advancing scientifically, and it is universally accepted that to achieve an adequate state of health it is also necessary to have a "healthy" Microbiota.

Our microbiota undergoes changes as a consequence of the influence of multiple factors, diet, lifestyle, pharmacological treatments, generating alterations in this bacterial ecosystem and the abnormal interaction that the organism could have with it, is related to certain processes: allergic, acute and chronic intestinal diseases, obesity and metabolic syndrome, neurological diseases, dermatitis and other alterations in the dermis, and even some types of cancer.

In this sense, this Postgraduate Certificate on Oral and Respiratory Microbiota for Nutritionists focuses on providing nutritionists with the necessary information to understand the functioning of the respiratory system microbiota, its eubiosis and dysbiosis and the problems related to them.

Also, during the training course, the use of Probiotics and Prebiotics will be discussed in depth, as well as the growing market launch of new products with very specific strains for very specific problems and diseases related to the oral system and the respiratory system.

This will allow nutrition professionals to be up to date with all the scientific advances in this regard, to offer the patient more accurate information on the subject, guiding them to establish a diet that helps to maintain the bacterial Eubiosis and a good state of health, in addition to collaborating positively with the recommended medical treatment.

This **Postgraduate Certificate in Oral and Respiratory Microbiota for Nutritionists** contains the most complete and up-to-date program on the market. The most important features of the program include:

- Development of practical cases presented by experts in Respiratory Microbiota.
- The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice.
- New developments on Respiratory Microbiota.
- It contains practical exercises where the self-evaluation process can be carried out to improve learning.
- With special emphasis on innovative methodologies in Respiratory Microbiota.
- 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



Improve your knowledge in Respiratory Microbiota in Nutrition through this program, where you will find the best didactic material with real cases"



This Postgraduate Certificate is the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in Respiratory Microbiotics, you will obtain a certificate from TECH Technological University"

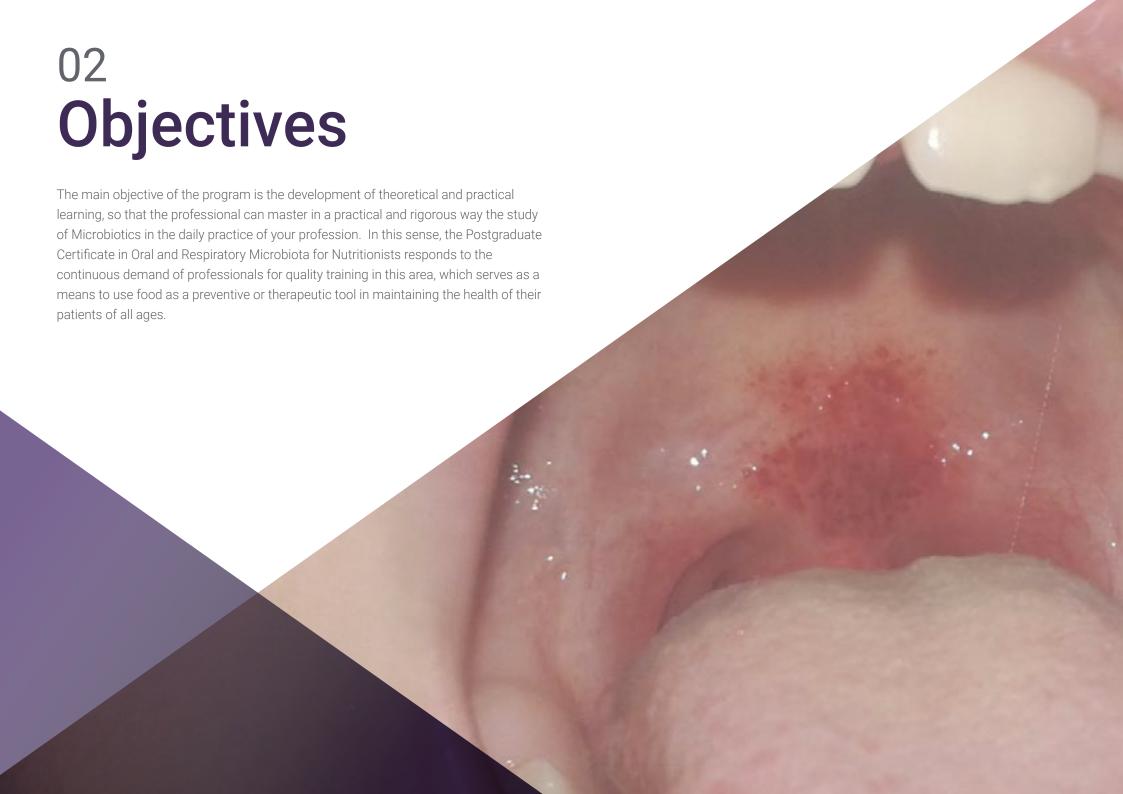
The program includes, in its teaching staff, professionals belonging to the field of medicine and nutrition, who bring to this training the experience of their work, in addition to recognized specialists from prestigious reference societies and universities.

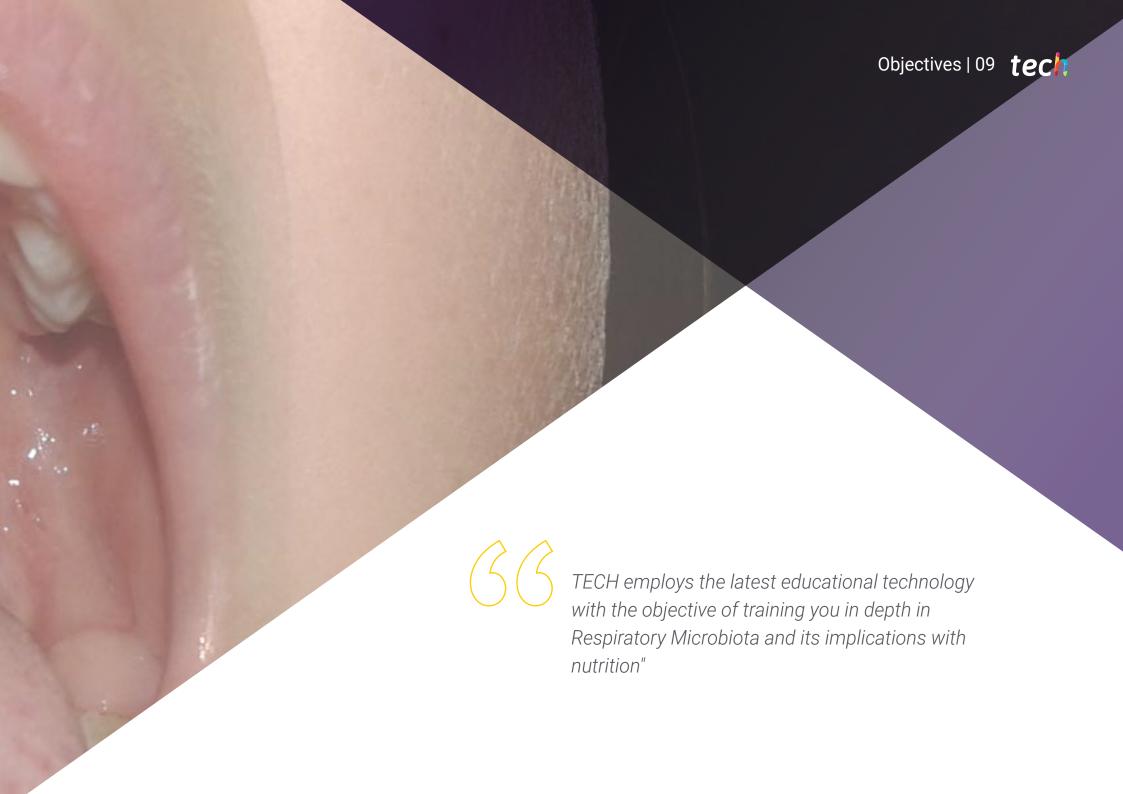
The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive training programmed to train in real situations.

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. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned experts in Microbiotics.

The Postgraduate Certificate allows you to exercise through simulated environments, which provide immersive learning programmed to train for real situations.

As it is an online Postgraduate Certificate, you will be able to combine your studies with the rest of your daily activities. This ensures that you receive the best training, while continuing to grow professionally.



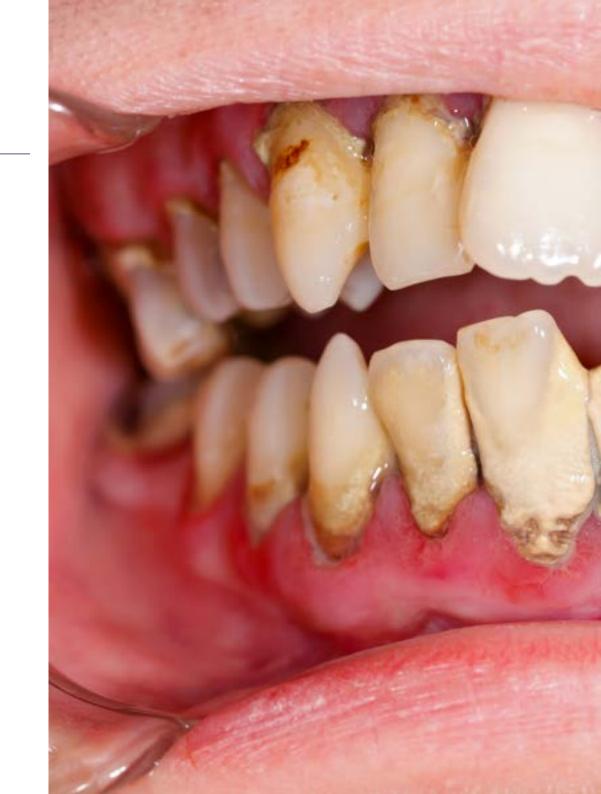


tech 10 | Objectives



General Objectives

- This Postgraduate Certificate fulfills a need of today's society, a quality and upto-date training that allows the use of microbiological therapy as a preventive or therapeutic tool for the maintenance of health.
- 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.
- Argue with scientific evidence how the microbiota and its interaction with many non-digestive pathologies, of autoimmune nature or its relationship with the dysregulation of the immune system, disease prevention and as support to other medical treatments, is currently being given a privileged position.
- 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 the microbiota and how it may be
 influencing it.
- Encourage professional stimulation through continuing education and research





Specific Objectives

- Understand the structure of oral ecosystems
- Know the causes of alterations of the oral microbial ecosystem, oral dysbiosis, and its relationship with different oral disease states
- Know the structure of the respiratory tract and composition of the Microbiota and Microbiome
- Understand why the alteration of the Microbiota of the respiratory tract occurs and its relationship with the different diseases of the respiratory tract
- Know the correct way to carry out a therapeutic manipulation of the Microbiome of the oral cavity in prevention and treatment of diseases related to it
- Know the correct way to carry out a therapeutic manipulation of the Microbiome of the respiratory tract in the prevention and treatment of diseases related to it
- Delve into the current lines of research related to the Oral Microbiota and its applications in Nutrition.



Update your knowledge through the program in Oral and Respiratory Microbiota for Nutritionists"







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Management



Dr. Fernández Montalvo, Mª Ángeles

- Degree in Biochemistry from the University of Valencia.
- Specialist Degree in Nutrition, Dietetics and Diet Therapy.
- Expert in Microbiological Food Analysis.
- Expert 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 Allergology and Clinical Immunology
- Specialist in Sports Medicine

Mrs. Gonzalez Rodríguez, Silvia P

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

Dr. Lombó Burgos, Felipe

• Doctorate in Biology from the University of Oviedo and full professor at the University of Oviedo.

Dr. López López, Aranzazu

- PhD in Biological Sciences. Researcher in oral microbiology at FISABIO foundation
- Public Health Research Center of Valencia

Dr. Méndez García, Celia

 PhD in Microbiology from the University of Oviedo Research at Novartis Laboratories (Boston)

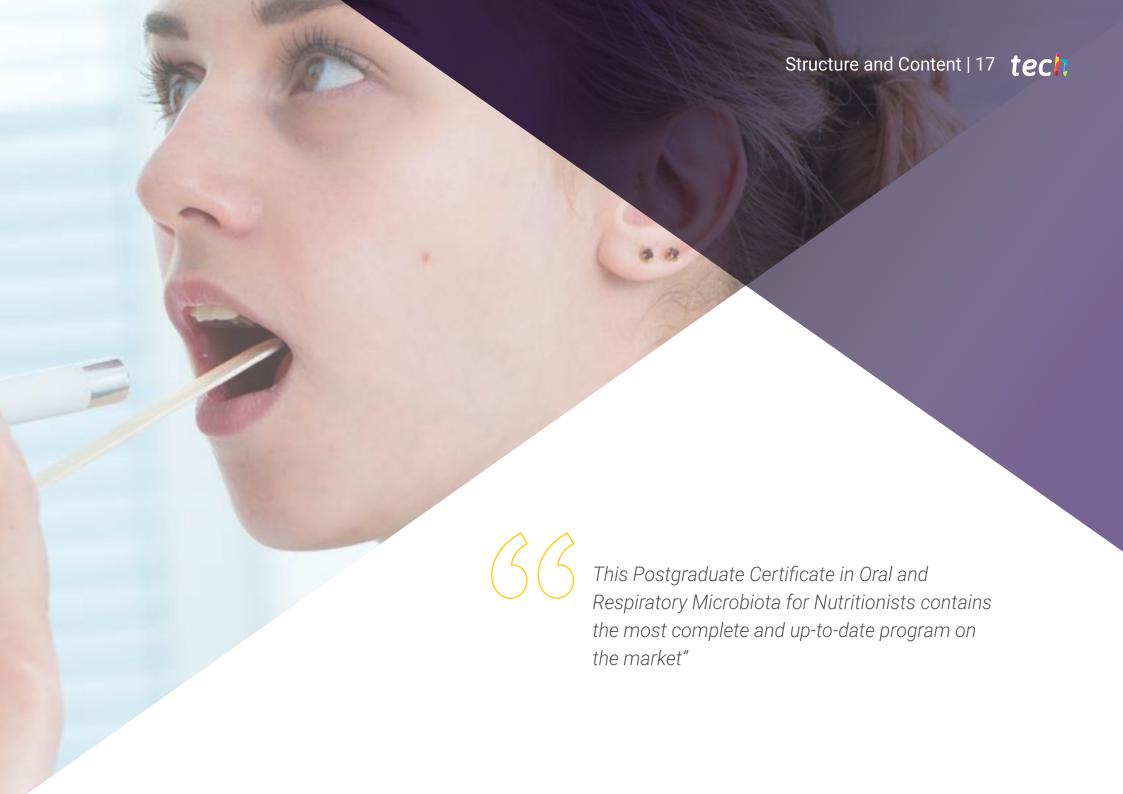
Dr. Solís Sánchez, Gonzalo

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

Dr. Suárez Rodríguez, Marta

- Neonatologist of the Central University Hospital of Asturias (HUCA)
- Researcher and Professor of 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.



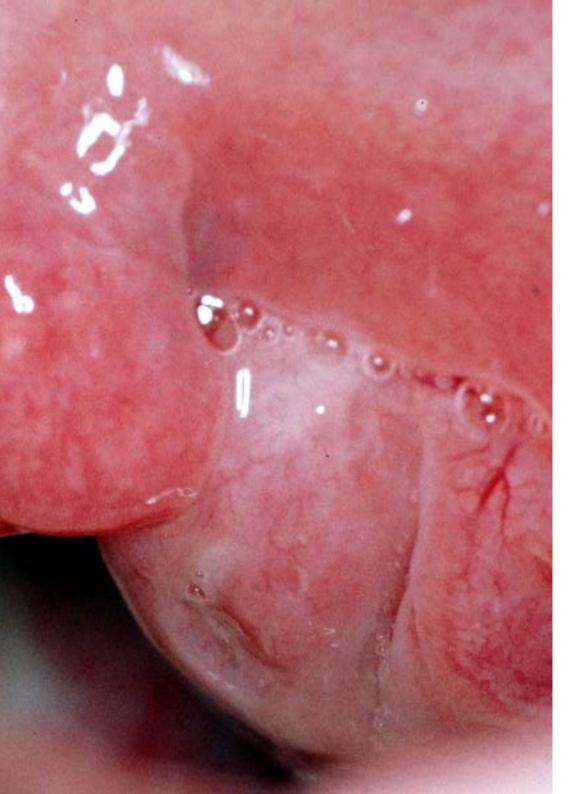


tech 18 | Structure and Content

Module 1. Oral and Respiratory Tract Microbiota

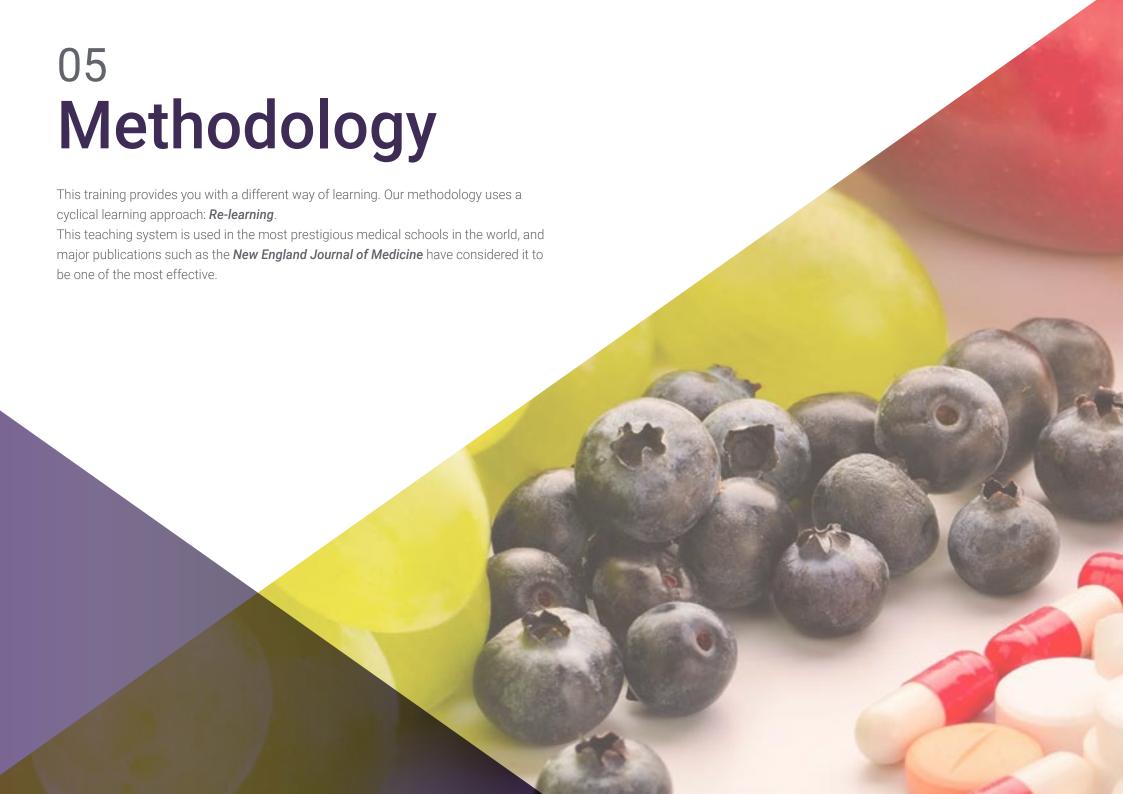
- 1.1. Structure and Oral Ecosystems
 - 1.1.1. Main Eosystems that are Differentiated in the Oral Cavity
 - 1.1.2. Characteristics and Composition of Each of Them. Nostrils, Nasopharynx and Oropharynx
- 1.2. Alterations of the Oral Microbial Ecosystem: Oral Dysbiosis. Relationship with Different Oral Disease States
 - 1.2.1. Cavities
 - 1.2.2. Halitosis
- 1.3. Periodontal and Gingival Diseases
- 1.4. Peri-Implant Diseases
- 1.5. Other Infectious Diseases: Candida Albicans
 - 1.5.1. Influence of External Agents in Oral Eubiosis and Dysbiosis. Hygiene
- Structure of the Respiratory Tract and Composition of the Microbiota and Microbiome
 - 1.6.1. Upper Respiratory Tract (Nasopharynx, Middle Ear, Sinuses, and Tonsils)
 - 1.6.2. Lower Respiratory Tract (Trachea, Lungs, Bronchi, Bronchioles and Alveoli)
- 1.7. Factors that Regulate the Respiratory Microbiota
 - 1.7.1. Microbial Immigration
 - 1.7.2. Elimination of Microbes and the Reproduction Rates of its Members
- 1.8. Alteration of the Respiratory Tract Microbiota and its Relationship with Different Respiratory Tract Diseases
- 1.9. Therapeutic Manipulation of the Microbiome of the Oral Cavity in Prevention and Treatment of Diseases Related to it
- 1.10. Therapeutic Manipulation of the Microbiome of the Respiratory Tract in Prevention and Treatment of Related Diseases
- 1.11. Current Lines of Research and Clinical Applications







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





tech 22 | Methodology

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 an abundance of scientific evidence on the effectiveness of the method. Nutritionists 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 potential 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 grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
- 2. The learning is solidly focused on practical skills that allow the nutritionist to better integrate the 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 24 | Methodology

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.

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 | 25 tech

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 have trained more than 45,000 nutritionists with unprecedented success, in all clinical specialties regardless of the workload. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

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). Therefore, 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 produced by the specialists who teach the course, specifically for the course, so that the teaching content is really specific and precise.

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.



Nutrition Techniques and Procedures on Video

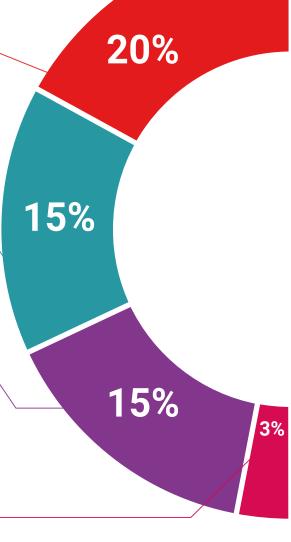
We introduce you to the latest techniques, the latest educational advances, and the forefront of current nutritional procedures and techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many 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.

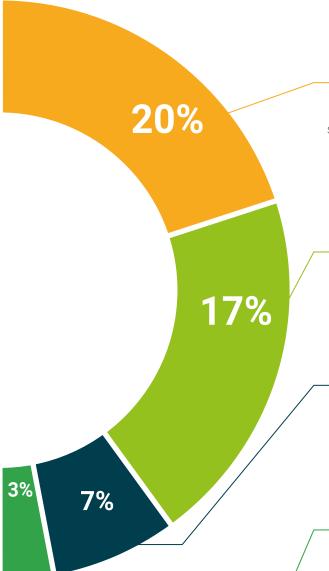
This unique training system for presenting multimedia content was awarded by Microsoft as a "European Success Story".





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 difficult future 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.







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This **Postgraduate Certificate in Oral and Respiratory Microbiota for Nutritionists** contains the most complete and up-to-date program the market.

After the student has passed the evaluations, they will receive their corresponding **certificate** issued by **TECH Technological University via tracked delivery**.

The certificate 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 Oral and Respiratory Microbiota for Nutritionists

ECTS: 8

Official Number of Hours: 200 hours.



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

technological university Postgraduate Certificate



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