



Respiratory Sleep Disorders (RSD): Surgery, Dentsitry and Functional Rehabilitation in SAHS

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/medicine/postgraduate-certificate/respiratory-sleep-disorders-rsd-surgery-dentistry-functional-rehabilitation-sahs

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The new scenarios in Sleep Medicine push us to propose new update programs that meet the real needs of experienced professionals, so that they can incorporate current advances into their daily practice"

# tech 06 | Introduction

There is an increasing multidisciplinary interest in Sleep Medicine, a rapidly growing discipline. Whether approached from a global point of view or from "partial specialisation", depending on the original field of medicine or specific area of interest, it is always vital to have rigorous and up-to-date generic knowledge in all areas. This Postgraduate Certificate more than fulfills this objective, from an eminently practical point of view. Its approach sets it apart from many other courses on this very transverse discipline, which are often criticised for being too "descriptive" and "theoretical", therefore, not entirely useful in resolving many situations that arise in clinical management.

Ventilatory therapy with positive air pressure and its variants remains the standard treatment for obstructive sleep disorders, but it is not without its difficulties; the problems of tolerance and adherence to this treatment, which sometimes arise, highlight the need to know all the alternatives, either as a single isolated therapeutic option or as associated or rescue therapy. To this end, a multidisciplinary approach to the problems is absolutely necessary.

Therefore, in this program it has been considered essential, in addition to being a novelty compared to other courses, to include concepts, techniques and advanced indications of surgical techniques, both in pediatrics and adults, in a clear and graphic way, with special emphasis on when they are useful by themselves, and when they are useful for their coadjuvant effects in the optimization of ventilatory therapy. The inclusion in some detail of the therapeutic possibilities and their precise indications offered by the burgeoning subdiscipline of Dental Sleep Medicine in the field of mandibular advancement devices (MAD) in adults and upper airway expanders in children and adults is another strength of this training.

With the clear objective of combining scientific evidence and practical utility, this Postgraduate Certificate in Respiratory Sleep Disorders (RSD): Surgery, Dentistry and Functional Rehabilitation in SAHS has a broad, up-to-date and unbeatable program, elaborated by a varied team of professional experts (physicians, psychologists, biologists, engineers, etc.)

This Postgraduate Certificate in Respiratory Sleep Disorders (RSD): Surgery, Dentistry and Functional Rehabilitation in SAHS contains the most complete and up-to-date scientific program on the market. The most important features include:

- Developing practical cases presented by experts inSleep Medicine
- The graphic, schematic, and practical contents provide students with scientific and practical information on the disciplines that are essential for professional practice
- Updates on Sleep Medicine and safety
- Practical exercises, where the self-assessment process can be carried out to improve learning
- Emphasis on innovative methodologies in Sleep Medicine
- 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



We offer you a comprehensive Postgraduate Certificate, allowing you to progress in the field of Respiratory Disorders in Sleep. Think no more and enrol with us"

# Introduction | 07 tech



This Postgraduate Certificate is the best investment you can make when choosing a refresher programme to update your existing knowledge of Respiratory Disorders in Sleep"

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 professional 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 professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

We offer you an interactive video system which makes it easier for you to study this Postgraduate Certificate.

Our 100% online training and our original educational methodology allow you to combine your studies with your other daily commitments.







# tech 10 | Objectives

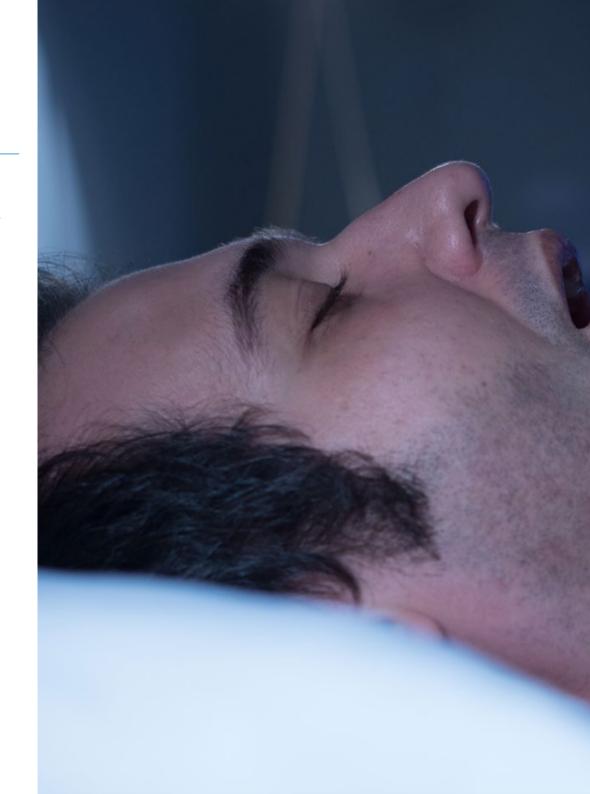


# **General objective**

• Master and/or update the necessary skills and knowledge for adequate practice in the field of Sleep Medicine at a global level, from the clinical and instrumental points of view



Train yourself for success with the help of this Diploma, with which you will learn to develop yourself in the field of Respiratory Sleep Disorders (RSD): Surgery, Dentistry and Functional Rehabilitation in SAHS"

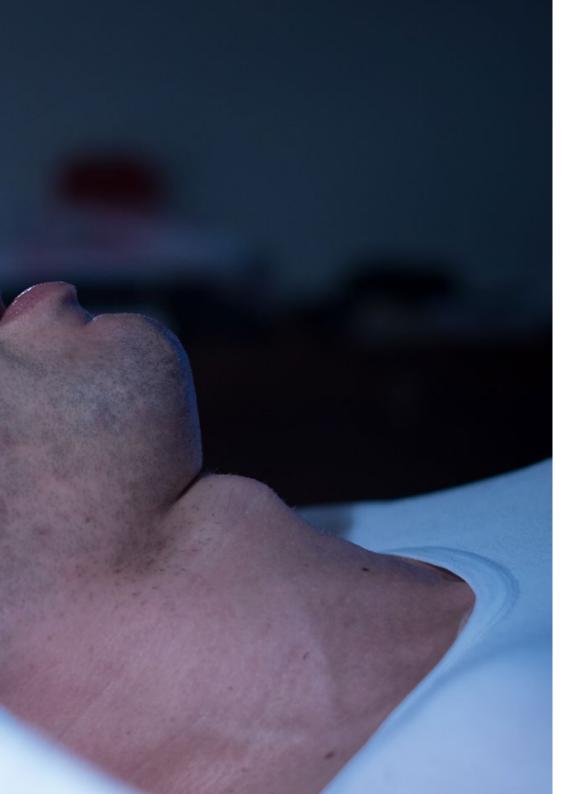




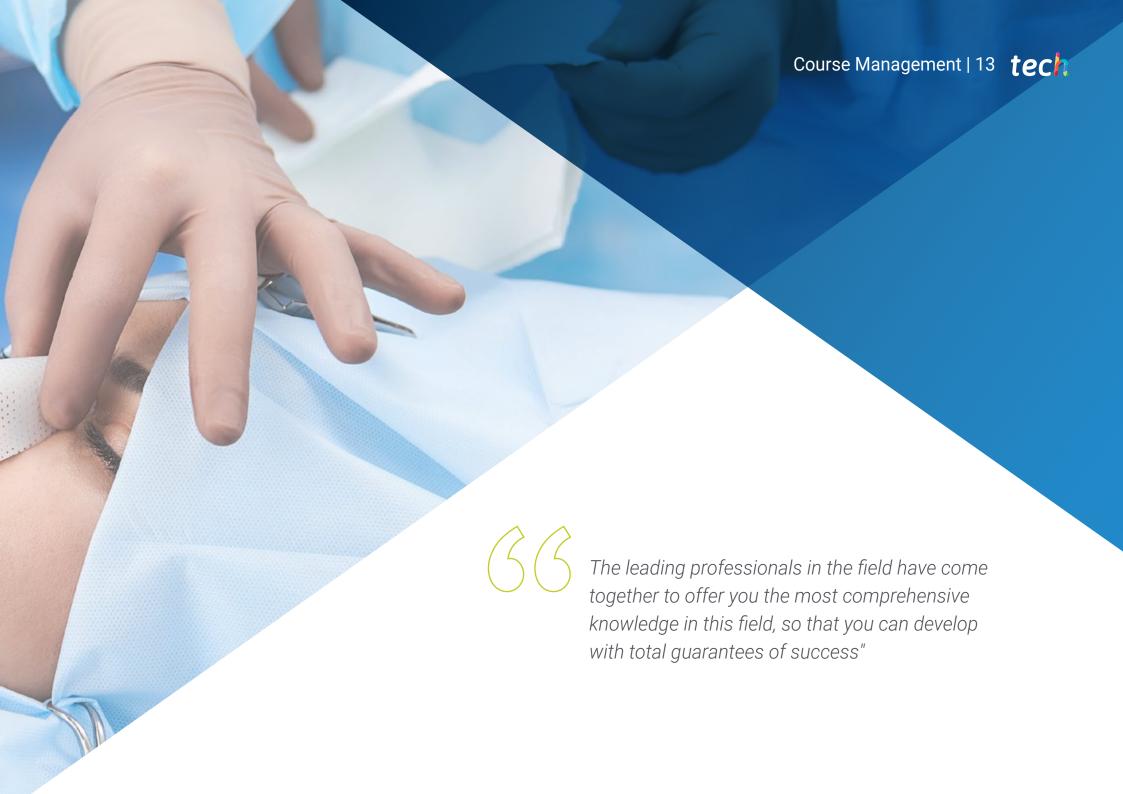


# **Specific objectives**

- Develop anatomical-functional knowledge of the upper airways and the examination methods used. These are very useful in guiding surgical and dental management to address the factors influencing upper airway obstruction Special attention is given, although not exclusively, to the indications and methodology of modern somnoscopy technology (DISE)
- Specialise in the different surgical techniques, including multilevel techniques, their precise indications and their functionality in different situations, either as a standalone technique or alongside others
- Apply skills in the utility, indications, mechanisms of action in modern dental devices and techniques, either used alone, as an alternative, or in combination with other therapeutic techniques
- Specialize in the different myofunctional techniques for rehabilitation of muscles involved in airway obstruction, their indications and how and to what extent they can help in the prevention and resolution of problems
- Know how to integrate all the techniques discussed at the decision level, in order to
  properly protocolize the therapeutic line to be followed in each patient, maintaining
  possible alternative or rescue solutions, according to the particular evolution







# tech 14 | Course Management

## **International Guest Director**

Dr. Craig Canapari is an eminent specialist in **Pediatric Pulmonology and Sleep Medicine**. He has been internationally recognized for his commitment to the study and treatment of sleep disorders in children, as well as his work in the field of **pulmonary diseases**. Throughout his extensive professional career, Dr. Canapari has had an outstanding praxis focused on treating pediatric patients with chronic and life-threatening respiratory diseases.

As director of the Pediatric Sleep Medicine Program at Yale-New Haven Children's Hospital,
Dr. Canapari has been dedicated to the management of various disorders such as Sleep Apnea
and Obstructive Sleep Apnea. He also treats those suffering from general pulmonary problems,
including cough, shortness of breath and asthma, as well as those suffering from Muscular
Dystrophy. In this field, he is noted for his interdisciplinary approach, combining Pneumology,
Neurology and Psychiatry in the research and treatment of these complex disorders.

In addition to his clinical expertise, Dr. Canapari is a celebrated researcher who has collaborated with other **Harvard** professionals to develop innovative tools, such as a smart phone application to assist parents in sleep training. His tireless efforts have also focused on how the use of CPAP machines can help children with **Obstructive Sleep Apnea** improve their quality of life. His in-depth knowledge in this area has led him to publish the book **It's Never Too Late to Sleep Train:** The **Low-Stress Way to High-Quality Sleep for Babies, Kids, and Parents.** 

To this must be added his exceptional work as an Assistant Professor of **Pediatrics**, specializing in **Respiratory Medicine**, at the **Yale School of Medicine**. There he contributes to both clinical care and the training of future **pediatric** and **pediatric pulmonology professionals**.



# Dr. Canapari, Craig

- Director of the Pediatric Sleep Medicine Postgraduate Certificate Program at Yale-New Haven Children's Hospital
- Attending Physician in Pediatric Pulmonology and Sleep Medicine at Yale-New Haven Children's Hospital
- Assistant Professor of Pediatrics, Respiratory Medicine, Yale School of Medicine, Yale University School of Medicine
- Doctor of Medicine, University of Connecticut School of Medicine
- Specialist in Pediatric Pulmonology and Sleep Medicine



# Management



# Dr. Larrosa Gonzalo, Óscar

- Specialist in Clinical Neurophysiology, San Rafael Hospita
- Expert in Sleep Medicine (CEAMS accredited, first national exam, 2013)
- Coordinator and founder of the Sleep Medicine Unit of MIPsalud, Madrid. Specialist and clinical consultant in sleep medicine at the Center of Neurological Diseases in Madrid and at the Multidisciplinary Unit for Sleep Disorders in San Rafael Hospital in Madrid, Spain
- Member of the Spanish Sleep Society (SES), founding member and former coordinator of its working group on Sleep Behaviour and Behavioural Disorders
- Member of the Spanish Society of the Neurophysiology Clinic (SENFC), founding member and former coordinator of its working group on sleep disorders
- Honorary Member, medical advisor and recommended specialist of the Spanish Restless Legs Syndrome Association (AESPI)
- Director of the Online Course "RESTLESS LEGS SYNDROME (WILLIS-EKBOM DISEASE)", (AESPI/Information without borders) for healthcare professionals, July 2016 July 2017

### **Professors**

## Dr. Jiménez Ferreres, Luis

- Specialist in otorhinolaryngology and head and neck surgery, Autonomous University of Madrid. Doctorate in Medicine. (Universdad Complutense de Madrid)
- Assistant Doctor at the Department of Otorhinolaryngology and Cervico-Facial Surgery, Hospital San Rafael, Madrid
- Director of the Multidisciplinary Sleep Unit, Hospital San Rafael, Madrid
- Master in "Senior Healthcare Management", Arthur Andersen (Madrid)
- Master's Degree in "Sleep Physiology and Medicine" from the UCAM
- Member of the following scientific societies
- Spanish society of otorhinolaryngology and head and neck surgery (SEORL)
- Spanish Society of Sleep (SES)
- American Association of Sleep Medicine (AASM)
- · Otorhinolaryngology Society of Madrid
- Otorhinolaryngology Society of Castilla la Mancha
- European society of Pedriatic Otorhinolaryngology
- Interamerican Association of Pediatric Otolaryngology, (IAPO)

## Dr. Marco Garrido, Alfonso

- · Assistant to the ENT Department at Reina Sofía University Hospital. Murcia
- Degree in Medicine and Surgery from the Faculty of Medicine of the University of Murcia
- Specialist in otorhinolaryngology by MIR training at the Virgen de la Arrixaca health city (Murcia)
- Diploma in Respiratory Sleep Disorders, Snoring and Applied Rhinology. Faculty of Medicine. Autonomous University of Nuevo León. Monterrey Mexico. Coordinator Dr. Rodolfo Lugo Saldaña
- Member and Member of the ORL Society of Murcia (SORLMU)
- Member of the Spanish Society of Sleep (SES)
- Founding Member of the Iberoamerican Society of Sleep Surgery (SIBECS)
- Member of the Spanish Society of Pulmonology and Thoracic Surgery (SEPAR)
- Member of the Commission of Roncopathy and Sleep Disorders. Spanish Society of Otorhinolaryngology and Head and Neck Surgery

## Dr. Fernández Jáñez, Cristina

- Teacher in different training projects in centers such as the VITHAS Arturo Soria Hospital in Madrid
- Degree in Medicine from the University of Navarra
- Residency at Great Ormond Street Hospital for Children (Londres). Visiting Observer Program in the Department of Pediatric Otorhinolaryngology and Head and Neck Surgery
- Specialty performed by the MIR route of the Ministry of Health and Consumption of Spain in Otorhinolaryngology at the Gregorio Marañón General University Hospital (Madrid)

# tech 18 | Course Management

## Dr. Guillén Lozada, Enrique

- Assistant Specialist in Otorhinolaryngology and Cervicofacial Pathology at Hospital Infantil Universitario Niño Jesús
- Assistant Specialist in Otorhinolaryngology and Cervicofacial Pathology at Hospital Vithas Nuestra Señora de América
- MIR Otorhinolaryngology and Head and Neck Surgery. Virgen del Rocío University Hospital
- Official Master's Degree in Medical Research: clinical and experimental.
   University of Seville
- D. Cum Laude in Molecular Biology, Biomedicine and Clinical Research.
  University of Seville
- Expert in voice pathology. University of Alcalá

## Ms. Neves Leal, Daniela

- Exclusive clinical practice in Orofacial Myofunctional Therapy, author and co-author of scientific publications and books related to oral breathing, sleep apnea, maxillofacial surgery and lingual frenulum
- Teaching collaboration in several Degrees and Masters of Dentistry, Orthodontics and Pediatric Dentistry
- Degree in Speech Therapy from the Complutense University of Madrid
- Official Master's Degree in Advances in Speech Therapy Intervention and Master's Degree in Orofacial Motricity - Specialist in Orofacial Myofunctional Therapy
- Postgraduate Degree in Myofunctional Rehabilitation and Dentistry
- Ambassador of the TBI technique in Spain and specialist in the evaluation and rehabilitation of the lingual frenulum (TBI-EUA)

## Dr. De Carlos Villafranca, Félix Antonio

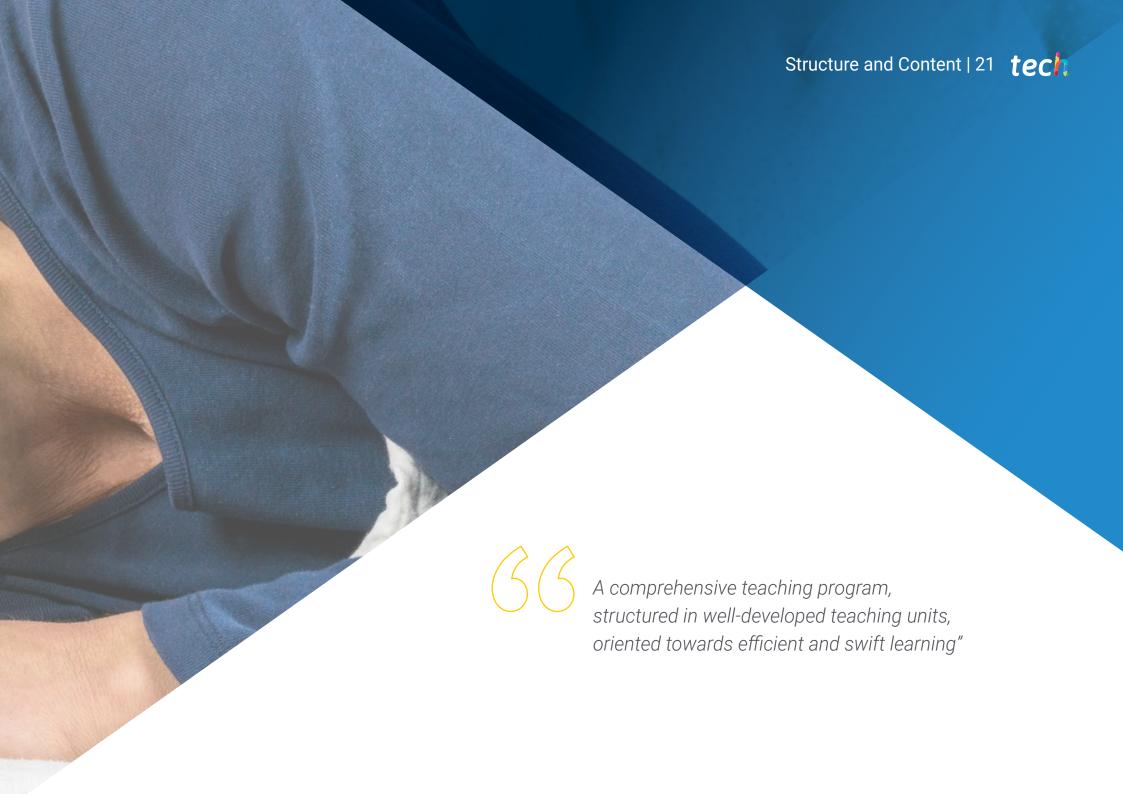
- Professor of Orthodontics of the University of Oviedo
- Director of the Master's Degree in Orthodontics at the University of Deusto
- Degree in Medicine and Surgery. Specialist in Stomatology
- Master's Degree in Orthodontics and Dentofacial Orthopedics
- Doctor of Medicine and Surgery
- Expert in Sleep Medicine: Accredited by the Spanish Committee of Sleep Medicine
- Expert in Sleep Dental Medicine: Accredited by the Spanish Committee of Sleep societies
- Member of the SFODF (Societé Française D'Orthopédie Dento-Faciale)
- Active member of SEDO (Spanish Orthodontic Society), AESOR (Spanish Association of Orthodontic Specialists), EOS (European Orthodontic society), SOCEFF (Spanish Society of Facial Clefts), EADSM (European Academy of Dental Sleep Medicine), SES (Spanish Society of Orthodontic Specialists), SES (European Academy of Dental Sleep Medicine)

## Dr. Bazán Inostroza, Borja

- Resident Doctor of Otorhinolaryngology and Head and Neck Surgery at La Princesa University Hospital (Madrid)
- Completion of Doctoral Thesis at the Faculty of Medicine, Autonomous University of Madrid







# tech 22 | Structure and Content

# **Module 1.** Respiratory Sleep Disorders (RSD): Surgery, Dentistry and Functional Rehabilitation in SAHS

- 1.1. Functional Anatomy and Exploration of the Airway from Surgical and Dental Perspectives
  - 1.1.1. Exploration of the Airway in the Otorhinolaryngological Practice
  - 1.1.2. Dental and Maxilofacial Exploration
- 1.2. Airway Imaging Tests
  - 1.2.1. Somnoscopy (DISE) in Pediatrics and Adults
  - 1.2.2. Applied Radiology
- 1.3. Palato-oropharyngeal Surgery and Treatments
  - 1.3.1. Tonsillectomy, Adenoidectomy and Pharyngoplasty: Concepts and Techniques
  - 1.3.2. Lingual Frenulum Surgery
  - 1.3.3. Soft Tissue Stiffness Augmentation Techniques
    - 1.3.3.1. Radiofrequency
    - 1.3.3.2. Sclerosants
    - 1.3.3.3. Devices
- 1.4. Hypopharyngeal Surgery
  - 1.4.1. Surgery of the Base of the Tongue and Epiglottis
  - 1.4.2. Other Treatment Techniques from a Cervical Approach
    - 1.4.2.1. Tongue and Hyoid Suspension
    - 1.4.2.2. Neurostimulation of the Hypoglossal Nerve
- 1.5. Tracheostomy
- 1.6. Nasal Surgery Optimising Adherence to CPAP
- 1.7. Oro-dental Sleep Medicine (I): Mandibular Advancement Devices in Adults
- 1.8. Oro-dental Sleep Medicine (II): Expanders in Pediatrics and Adults
- 1.9. Maxillary-Mandibular Advancement and Other Orthognathic Surgery Treatments
- 1.10. Myofunctional Therapy and Respiratory Reeducation in the Treatment of SAHS
- 1.11. Multilevel and Multidisciplinary Treatment Conclusions







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





# tech 26 | Methodology

### 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 abundant 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:

- 1. 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.





# Re-Learning Methodology

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

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 | 29 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, 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 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 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.

# 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.



## **Surgical Techniques and Procedures on Video**

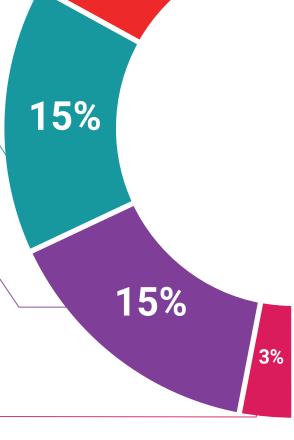
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many 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 multimedia content presentation training Exclusive 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, 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 & Re-testing**

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 your goals.



### Classes

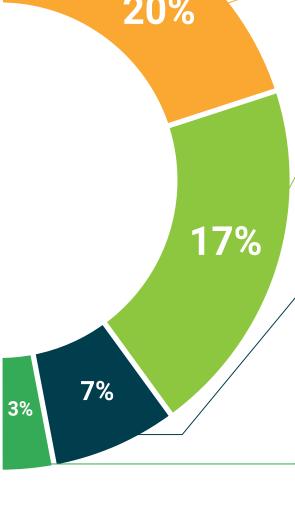
There is scientific evidence on the usefulness of learning by observing experts: The system termed Learning from an Expert strengthens knowledge and recall capacity, and generates confidence in the face of difficult decisions in the future.



#### **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 Certificate in Respiratory Sleep Disorders (RSD): Surgery, Dentistry and Functional Rehabilitation in SAHS contains the most complete and up-to-date scientific program on the market.

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

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

Title: Postgraduate Certificate in Respiratory Sleep Disorders (RSD): Surgery, Dentistry and Functional Rehabilitation in SAHS

Official N° of Hours: 150 h.



<sup>\*</sup>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.

health

guarantee

technological
university

# Postgraduate Certificate

Respiratory Sleep Disorders (RSD): Surgery, Dentsitry and Functional Rehabilitation in SAHS

- » Modality: online
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