

Postgraduate Certificate

Assessment and Treatment of Voice Disorders





Postgraduate Certificate Assessment and Treatment of Voice Disorders

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/assessment-treatment-voice-disorders

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01

Introduction

The voice presents, in many cases and for various reasons, different conditions that limit speech, which must be treated individually and rigorously to improve the communicative ability of people. For this reason, improved diagnostic and therapeutic tools have been developed to promote the rehabilitation of these pathologies and increase the patient's quality of life, which the physician must identify in order to optimize his professional update. For this reason, TECH has created this course, which will enable the student to know in depth the latest techniques of functional assessment of the voice or exercises to treat organic-functional dysphonia. In a 100% online way, you will obtain this learning without depending on tight schedules.



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This course will allow you to know the most avant-garde exercises to treat the different organic-functional dysphonia with the maximum efficiency"

People, as a result of the contraction of various diseases or the prolonged efforts made daily by the vocal cords, may suffer from various voice problems. A quick diagnosis and the administration of a therapy adapted to the pathology of each patient are crucial aspects to promote their recovery. This fact has led to the development of updated methods of detection and approach of vocal disorders, which allow a more rigorous management of these pathologies in order to preserve the well-being of the individual. Because of the benefits offered, their knowledge is essential for any specialist wishing to be at the forefront of their field.

In view of this circumstance, TECH has developed this program, through which the student will deepen in the advances that have occurred in the field of Assessment and Treatment of Voice Disorders. During 12 weeks of intensive learning, the student will delve into the updated strategies to undertake the objective evaluation of the voice or detect the recent speech therapy treatments for dysphonia of congenital or acquired organic origin. You will also establish which are the most appropriate semi-occluded vocal tract exercises to promote voice relaxation.

Thanks to this degree, which is carried out through a 100% online modality, the specialist will be able to obtain an effective learning thanks to the management at will of his own time. You will also have access to educational content in a wide variety of formats such as readings, videos or self-assessment tests. With this, TECH's primary objective is to provide you with a learning experience that is available 24 hours a day, effective and compatible with your personal and professional life.

This **Postgraduate Certificate in Assessment and Treatment of Voice Disorders** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of practical cases presented by experts in Speech Neurorehabilitation
- ♦ The graphic, schematic, and practical content with which they are created, provides 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



Update, through this program, your knowledge on speech therapy treatments to address dysphonia of congenital or acquired organic origin"

“*Enjoy a curriculum designed by the best experts in Speech Therapy that will provide you with the most relevant and updated knowledge in the Assessment and Treatment of Voice Disorders”*

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

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

Obtain excellent learning without having to neglect your personal life through the study facilities that TECH offers you.

With this course, you will detect the most effective and avant-garde exercises of the semi-occluded vocal tract, used to promote voice relaxation.



02 Objectives

The design of this course has been carried out with the premise of providing the student with the most relevant and updated knowledge in the Assessment and Treatment of Voice Disorders. Throughout this academic experience, the student will delve into the sophisticated strategies to undertake vocal assessment and the techniques to manage its adequate rehabilitation. Such learning will be preserved by achieving the following general and specific objectives.





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In just 12 weeks, you will receive the opportunity to place yourself at the forefront of Voice Disorders Treatment through this qualification"

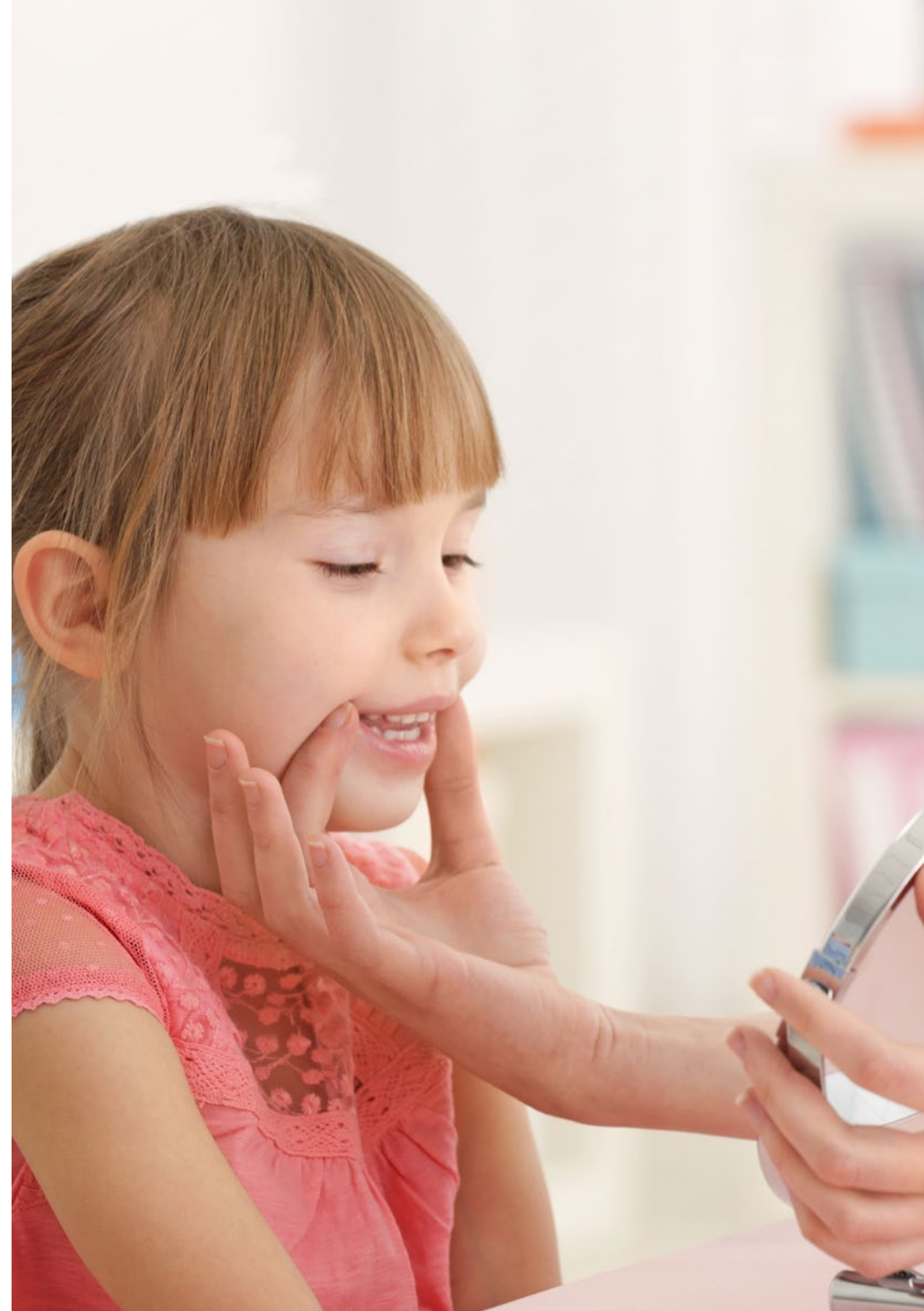


General Objectives

- ♦ Develop a broad body of knowledge of the anatomical and functional basis of the central and peripheral nervous system
- ♦ Study the anatomy and function of the organs involved in basic functions such as respiration, phonation and swallowing
- ♦ Acquire knowledge in both assessment and speech therapy intervention
- ♦ Delve into rehabilitation techniques supported by clinical practice
- ♦ Develop intervention skills acquired from complementary disciplines such as neuropsychology, physiotherapy and psychology
- ♦ Become proficient in the assessment, diagnosis and treatment of neurofunctional and logopedic disorders in specific groups with neurodevelopmental or syndromic disorders
- ♦ Know various approaches and intervention programs in neurological and speech therapy neurorehabilitation



Update your knowledge in Assessment and Treatment of Voice Disorders and complete your health development"





Specific Objectives

- ◆ Learn how to implement a correct and complete assessment of vocal function in daily clinical practice
- ◆ Learn the specific anatomical and functional aspects of the phonatory system as a basis for the rehabilitation of vocal pathologies and for vocal work with voice professionals
- ◆ Know the most important features of the voice and learn to listen to different types of voices in order to know which aspects are altered to guide clinical practice
- ◆ Gain in-depth knowledge of the most current diagnostic and treatment techniques
- ◆ Analyze the different possible vocal pathologies and achieve scientific rigor in treatments
- ◆ Solve real case studies with current therapeutic approaches based on scientific evidence
- ◆ Delve into the knowledge and analysis of the results obtained in objective voice assessments
- ◆ Learn about different approaches to the treatment of vocal pathologies
- ◆ Raise awareness of the need for vocal care
- ◆ View the voice as a global ability of the person and not as an exclusive act of the phonatory system

03

Course Management

Thanks to TECH's untiring commitment to preserve intact the excellent academic level of its degrees, the best specialists in the field of Speech Therapy have been appointed to direct and teach this program. These experts are in charge of developing the teaching resources that the student will have throughout their academic experience. Therefore, the contents to which the student will access will be fully applicable in their work experiences.



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In order to provide you with the most updated didactic contents in Assessment and Treatment of Voice Disorders, this course is taught by experts who actively practice their profession in the field of Speech Therapy"

Management



Mr. Borrás Sanchís, Salvador

- ♦ Psychologist, Teacher and Speech Therapist
- ♦ Educational Counselor at Generalitat Valenciana, Consejería de Educación (Valencian Regional Government)
- ♦ Abile Education Specialist
- ♦ Partner Avance S.L
- ♦ Pedagogical Advisor and External Collaborator of Aula Salud (an organization to promote health in the classroom)
- ♦ Pedagogical Director. iteNlearning
- ♦ Author of "Guide for the Reeducation of Atypical Swallowing and Associated Disorders"
- ♦ Pedagogical Director at the DEIAP Institute
- ♦ Degree in Psychology
- ♦ Hearing and Speech Teacher
- ♦ Diploma in Speech Therapy

**Ms. Santacruz García, Estefanía**

- Social integrator and clinical speech therapist at Uner Clinic
- Teacher at CEFIRE
- Specialist in Orofacial and Myofunctional Therapy

Professors**Ms. Álvarez Valdés, Paula del Carmen**

- Specialist in Diagnosis and Treatment of Early Childhood Care
- Clinical Speech Therapist Specialist in Myofunctional Therapy
- Diploma in Psychodiagnosis and Early Care Treatment
- Direct collaboration in Dental Office
- Graduate in Speech Therapy
- Master's Degree in Special Education and in Foreign Languages from the Pontifical University of Salamanca
- ISEP Master's Degree in Myofunctional Therapy

Ms. Carrasco de Larriva, Concha

- Expert in Cognitive Rehabilitation and Clinical Neuropsychology
- Psychologist at PEROCA
- Clinical Neuropsychologist accredited by the General Council of Psychology in Spain
- Assistant Professor of the Department of Psychology at the Catholic University San Antonio of Murcia
- Master's Degree in Clinical Neuropsychology by the Spanish Association of Clinical Cognitive Behavioral Psychology
- Expert in Child and Cognitive Rehabilitation by the Francisco de Vitoria University

- ♦ Postgraduate degree in Cognitive Rehabilitation from ISEP
- ♦ Degree in Psychology from the University of Granada
- ♦ Qualified for the assessment of Autism with the Autism Diagnostic Observation Scale ADOS

Ms. Gallego Díaz, Mireia

- ♦ Hospital Speech Therapist
- ♦ Occupational Therapist
- ♦ Speech Therapist Expert in Swallowing Disorders

Ms. García Gómez, Andrea

- ♦ Speech therapist specialized in Acquired Brain Injury Neurorehabilitation
- ♦ Speech therapist at UNER Clinic
- ♦ Speech therapist at Integra Brain Injury
- ♦ Speech therapist at Ineuro
- ♦ Graduate in Speech Therapy
- ♦ Master's Degree in Speech Therapy Neurorehabilitation in Acquired Brain Injury

Ms. Jiménez Jiménez, Ana

- ♦ Clinical Neuropsychologist and Social Worker
- ♦ Clinical Neuropsychologist at Integra Cerebral Damage
- ♦ Neuropsychologist at UNER Clinic
- ♦ Educator of the Social Action Team Murcia in Cáritas Spain
- ♦ Degree in Social Work at the University of Murcia
- ♦ Degree in Psychology from the National University of Remote Education (UNED)

- ♦ Master's Degree in Clinical Neuropsychology from the European University Miguel de Cervantes
- ♦ Master in General Health Psychology from the National University of Distance Education (UNED)

Ms. López Samper, Belén

- ♦ General Health Psychology and Clinical Neuropsychologist
- ♦ Psychologist at the Alcaraz Institute
- ♦ Psychologist at the IDEAT Centre
- ♦ Neuropsychologist at the UNER Clinic-Comprehensive Brain Damage Assessment and Rehabilitation
- ♦ Specialized in Child and Adult Neurorehabilitation at the Integral Center for Brain Injury
- ♦ Master's Degree in Special Educational Needs and Early Intervention,
- ♦ Developmental and Child Psychology from the International University of Valencia
- ♦ Master's Degree in Clinical Neuropsychology by the Spanish Association of Clinical Cognitive Behavioral Psychology
- ♦ Master's Degree in General Health Psychology from the University of Valencia
- ♦ Degree in Psychology from the Miguel Hernández University of Elche

Ms. Martín Bielsa, Laura

- ♦ Director of Multidisciplinary Center Dime Más
- ♦ CFP Estill Voice Training
- ♦ Degree in Speech Therapy
- ♦ Graduate in Teaching
- ♦ Dean of the Professional Association of Speech Therapists of Aragon

Ms. Muñoz Boje, Rocío

- ♦ Occupational Therapist Specialist in Neurorehabilitation in the Uner Clinic
- ♦ Degree in Occupational Therapy

Ms. Navarro Maruenda, Laura

- ♦ Neuropsychologist at the Kinemas Center
- ♦ Specialist in Child and Adult Neurorehabilitation in Integral Center of Brain Injury
- ♦ Master's Degree in Speech Neurorehabilitation and Vital Function Analysis
- ♦ Neuropsychologist at INEURO
- ♦ Neuropsychologist at Uner La Clinic
- ♦ Degree in Psychology from the Miguel Hernández University of Elche
- ♦ Master's Degree in Health Psychology from the Miguel Hernández University of Elche
- ♦ Master's Degree in Clinical Neuropsychology from the European University Miguel de Cervantes
- ♦ Master's Degree in Pediatric Neurology and Neurodevelopment by CEU Cardena Herrera University

Ms. Santacruz García, Raquel

- ♦ Specialist in Pedagogy and Nutrition
- ♦ Dietician of the Hispanic Ballet Company
- ♦ Dancer at the Andalusian Dance Center
- ♦ Graduate in Human Nutrition and Dietetics by the Catholic University San Antonio
- ♦ Specialist in Dance Pedagogy by the Theatre Institute of Barcelona
- ♦ Intermediate Degree in Classical Dance at the Conservatory of Murcia

Mr. Santacruz García, José Luis

- ♦ Psychologist specializing in Congenital and Acquired Brain Injury

Ms. Sanz Pérez, Nekane

- ♦ Clinical Speech Therapist specialized in Acquired Cerebral Palsy
- ♦ Teacher in Iberocardio for Aspace (Main Confederation and Entity for Cerebral Palsy Care in Spain)

Ms. Selva Cabañero, Pilar

- ♦ Nurse Specialist in Obstetric - Gynecological Nursing (Midwife)
- ♦ Obstetric - Gynecological Nursing Teaching Unit, University of Murcia
- ♦ Santa Lucia General University Hospital
Publication of La anquiloglosia y el éxito de la lactancia materna, with ISBN13: 978- 84- 695- 5302- 2. 2012

04

Structure and Content

The syllabus of this program is composed of 2 modules through which the specialist will expand and update his knowledge in the Assessment and Treatment of Voice Disorders. All the teaching materials that you will access during the duration of this Postgraduate Certificate are available in media such as complementary readings, explanatory video or self-evaluation tests. Due to this, and by means of a 100% online methodology, the student will have the possibility of adapting their learning to their personal and student needs.



A close-up photograph of a woman with light brown hair tied back, wearing a white lab coat. She is looking down and to the left with a thoughtful expression. The background is softly blurred, showing what appears to be a laboratory or office setting. The image is partially obscured by a large blue diagonal graphic element on the right side of the page.

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This course has a 100% online methodology that will allow you to learn without leaving your own home"

Module 1. Anatomy and Physiology of the Voice. Vocal Chord Status

- 1.1. Voice Anatomy
 - 1.1.1. Laryngeal Anatomy
 - 1.1.2. Respiratory Structures Involved in Phonation
 - 1.1.2.1. Chest
 - 1.1.2.2. Airway
 - 1.1.2.3. Respiratory Musculature
 - 1.1.3. Laryngeal Structures Involved in Phonation
 - 1.1.3.1. Laryngeal Skeleton
 - 1.1.3.2. Cartilage
 - 1.1.3.3. Joints
 - 1.1.3.4. Musculature
 - 1.1.3.5. Innervation
 - 1.1.4. Structures of the Vocal Tract Involved in Phonation
 - 1.1.4.1. Linear Source-Filter Model
 - 1.1.4.2. Non-Linear Source-Filter Model
- 1.2. Voice Physiology
 - 1.2.1. Histology of Vocal Folds
 - 1.2.2. Biomechanical Properties of the Vocal Folds
 - 1.2.3. Myoelastic Mucocondulatory Theory and Aerodynamic Theory
- 1.3. Pathological Voice
 - 1.3.1. Euphonia vs. Dysphonia
 - 1.3.2. Vocal Fatigue
 - 1.3.3. Acoustic Signs of Dysphonia
 - 1.3.4. Classification of Dysphonia
- 1.4. Medical- Surgical Treatment
 - 1.4.1. Phonosurgery
 - 1.4.2. Laryngeal Surgery
 - 1.4.3. Medication in Dysphonia
- 1.5. Physical and Acoustic Aspects
 - 1.5.1. Physical Aspects of the Voice
 - 1.5.1.1. Types of Waves
 - 1.5.1.2. Physical Properties of Sound Waves: Amplitude and Frequency
 - 1.5.1.3. Transmission of Sound
 - 1.5.2. Acoustic Voice Aspects
 - 1.5.2.1. Intensity
 - 1.5.2.2. Pitch
 - 1.5.2.3. Quality
- 1.6. Objective Voice Assessment
 - 1.6.1. Morphofunctional Exploration
 - 1.6.2. Electroglottography
 - 1.6.3. Aerodynamic Measures
 - 1.6.4. Electromyography
 - 1.6.5. Videochemography
 - 1.6.6. Acoustic Analysis
- 1.7. Perceptual Assessment
 - 1.7.1. GRBAS
 - 1.7.2. RASAT
 - 1.7.3. GBR Score
 - 1.7.4. CAPE-V
 - 1.7.5. VPAS
- 1.8. Functional Assessment
 - 1.8.1. Fundamental Frequency
 - 1.8.2. Phonetogram
 - 1.8.3. Maximum Phonatory Times
 - 1.8.4. Velopharyngeal Efficiency
 - 1.8.5. VHI
- 1.9. Assessing Vocal Quality
 - 1.9.1. Vocal Quality
 - 1.9.2. High Quality Voice vs. Low Quality Voice
 - 1.9.3. Vocal Quality Assessment in Voice Professionals
- 1.10. Medical History
 - 1.10.1. The Importance of the Clinical History
 - 1.10.2. Characteristics of the Initial Interview
 - 1.10.3. Medical History Sections and Voice Implications
 - 1.10.4. Proposal of a Model of Anamnesis for Vocal Pathology



Module 2. Vocal Rehabilitation

- 2.1. Speech Therapy Treatment for Functional Dysphonias
 - 2.1.1. Type I: Isometric Laryngeal Disorder
 - 2.1.2. Type II: Glottic and Supraglottic Lateral Contraction
 - 2.1.3. Type III: Anteroposterior Supraglottic Contraction
 - 2.1.4. Type IV: Conversion Aphonia/Dysphonia and Psychogenic Dysphonia with Arched Vocal Cords
 - 2.1.5. Transitional Adolescent Dysphonia
- 2.2. Speech Therapy Treatment for Organic Dysphonias
 - 2.2.1. Introduction
 - 2.2.2. Speech Therapy in Congenital Origin Dysphonias
 - 2.2.3. Speech Therapy in Acquired Origin Dysphonias
- 2.3. Speech Therapy Treatment for Organic-Functional Dysphonias
 - 2.3.1. Introduction
 - 2.3.2. Objectives in the Rehabilitation of Organic-Functional Pathologies
 - 2.3.3. Proposal of Exercises and Techniques according to the Rehabilitation Objective
- 2.4. Voice in Acquired Neurological Problems
 - 2.4.1. Dysphonias of Neurological Origin
 - 2.4.2. Speech Therapy Treatment
- 2.5. Child Dysphonia
 - 2.5.1. Anatomical Characteristics
 - 2.5.2. Vocal Characteristics
 - 2.5.3. Intervention
- 2.6. Hygiene Therapy
 - 2.6.1. Introduction
 - 2.6.2. Harmful Habits and Their Effect on the Voice
 - 2.6.3. Preventive Measures
- 2.7. Semi-Occluded Vocal Tract Exercises
 - 2.7.1. Introduction
 - 2.7.2. Justification
 - 2.7.3. TVSO
- 2.8. *Estill Voice Training*
 - 2.8.1. Jo Estill and the Creation of the Model
 - 2.8.2. Principles of *Estill Voice Training*

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.





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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 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.

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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. 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.



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.



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.



06

Certificate

The Postgraduate Certificate in Assessment and Treatment of Voice Disorders guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Assessment and Treatment of Voice Disorders** contains the most complete and up-to-date scientific 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 Assessment and Treatment of Voice Disorders**

Official N° of Hours: **250 h.**



*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.



Postgraduate Certificate
Assessment and Treatment
of Voice Disorders

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate

Assessment and Treatment of Voice Disorders