



## Postgraduate Certificate

Speech Therapy Intervention for Hearing Impairments

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Accreditation: 6 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/medicine/postgraduate-certificate/speech-therapy-intervention-hearing-impairments

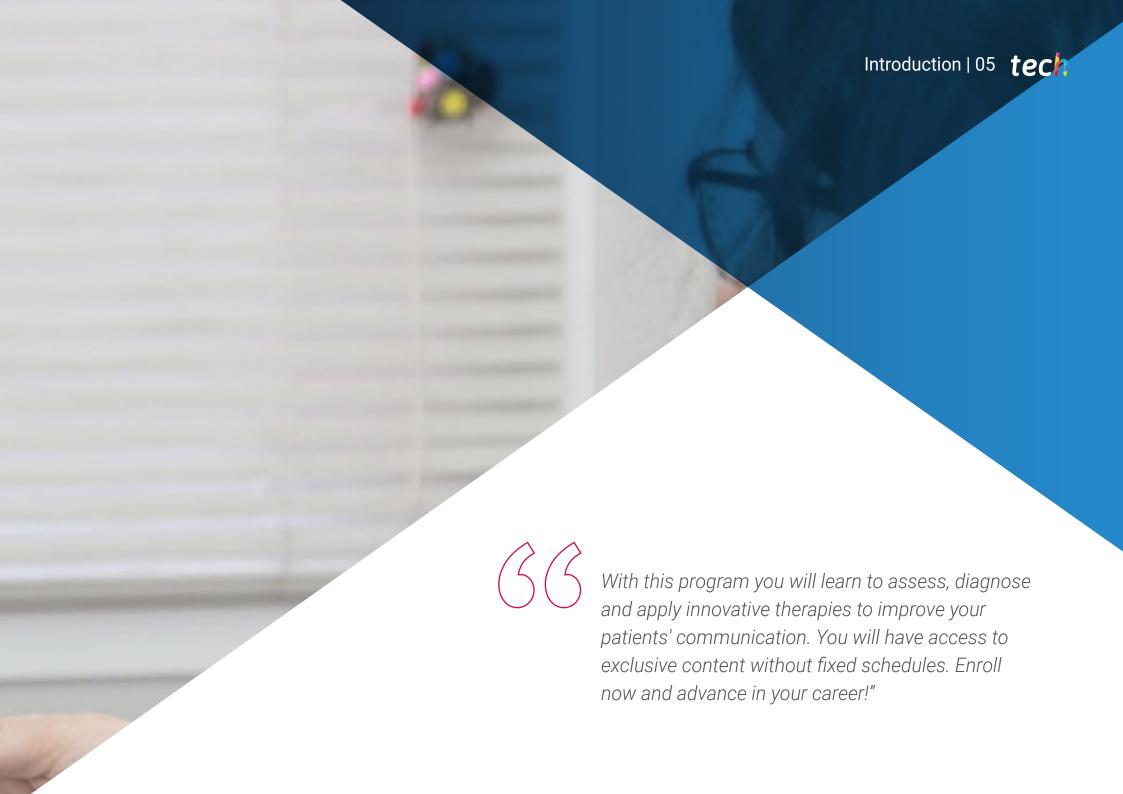
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### tech 06 | Introduction to the Program

Hearing impairments significantly affect the communication, cognitive development and social integration of those who suffer from them. For this reason, speech therapy plays a fundamental role in the improvement of auditory and linguistic skills, allowing patients to develop effective compensatory strategies. In addition, it not only facilitates the development of oral language, but also contributes to the autonomy and well-being of the people affected.

In this context, TECH has designed a complete program in Speech Therapy Intervention for Hearing Impairments that will provide comprehensive and efficient training. Through a specialized syllabus, knowledge will be provided on audiological assessment, auditory rehabilitation and language therapy adapted to different types of hearing loss. Subsequently, emphasis will be placed on the fundamentals of hearing, the early detection of disorders, the application of advanced methodologies in auditory re-education and multisensory therapy. Likewise, there will be an in-depth look at the use of cochlear implants, hearing aids and other assistive technologies, as well as speech therapy interventions for children and adults with hearing loss.

Thanks to this structured and up-to-date academic content, professionals will acquire innovative strategies to optimize the communicative development of their patients. In this way, they will be ready to lead personalized therapeutic interventions, designing effective treatment plans that favor the integration of patients with hearing impairments.

TECH will offer this program in a 100% online format, designed so that students can balance their studies with their work and personal activities. In turn, the implementation of the Relearning methodology, based on the reiteration of key concepts, will guarantee dynamic and effective learning. With permanent access to the materials and the support of a prestigious teaching team, graduates will be able to specialize in this field with total flexibility and without geographical restrictions.

This Postgraduate Certificate in Speech Therapy Intervention for Hearing Impairments contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- The development of practical cases presented by experts in Speech Therapy.
- The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- Practical exercises where self-assessment can be used to improve learning
- Special emphasis on innovative methodologies in Speech Therapy Intervention for Hearing Impairments
- 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



You will acquire the most advanced tools for dealing with hearing loss, cochlear implants and auditory rehabilitation. All with a flexible methodology and the support of expert teachers"



100% online learning, with analysis of real clinical cases and the support of expert teachers in audiology and medical speech therapy: that's what this program is all about. Enroll now and boost your career!"

Its teaching staff includes professionals from the field of Speech Therapy, who bring their work experience to this 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 an immersive learning experience designed to prepare for real-life situations.

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

Specialize in auditory rehabilitation with a clinical and scientific approach. Thanks to this program you will know how to efficiently evaluate, diagnose and treat auditory alterations.

You will benefit from updated content and multimedia material of a high educational level. This way you will master the latest techniques in speech therapy for patients with hearing impairments.







### tech 10 | Why Study at TECH?

#### The world's best online university, according to FORBES

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

#### The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

#### The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.



The most complete syllabus





World's
No.1
The World's largest
online university

### The most complete syllabuses on the university scene

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

#### A unique learning method

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

#### The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

#### **Leaders in employability**

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.









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#### **Google Premier Partner**

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.

#### The top-rated university by its students

Students have positioned TECH as the world's toprated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.

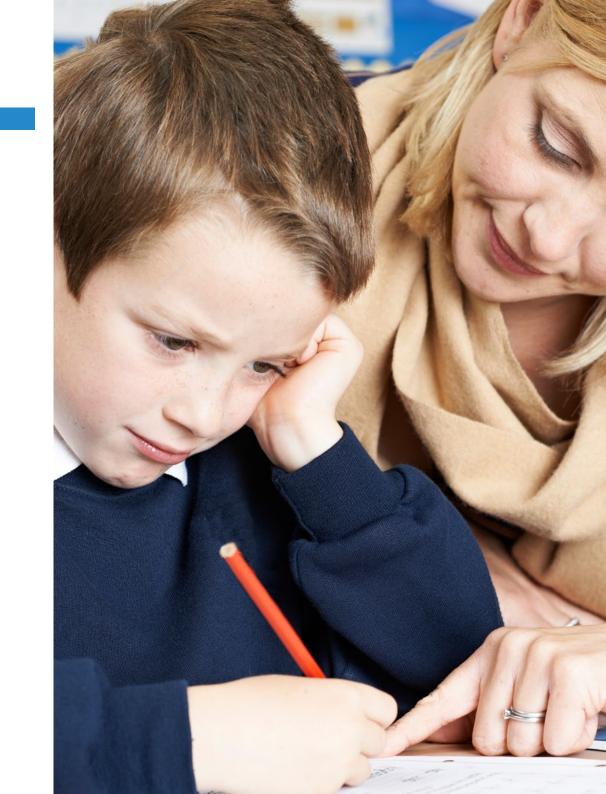




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#### **Module 1.** Speech Therapy Intervention for Hearing Impairments

- 1.1. Diagnosis and Etiology of Hearing Loss
  - 1.1.1. Epidemiology of Hearing Loss
    - 1.1.1.1. Hearing Loss in Newborns
    - 1.1.1.2. Hearing Loss in Children
    - 1.1.1.3. Hearing Loss in Adults
  - 1.1.2. Early Detection of Hearing Loss
    - 1.1.2.1. Methods of Newborn Screening
    - 1.1.2.2. Screening Tests in Childhood
  - 1.1.3. Etiology of Hearing Loss
    - 1.1.3.1. Genetic Causes
    - 1.1.3.2. Acquired Causes
    - 1.1.3.3. Prenatal and Perinatal Hearing Loss
- 1.2. Risk Factors and Prevention of Hearing Loss
  - 1.2.1. Risk Indicators for Hearing Loss
    - 1.2.1.1. Genetic Factors
    - 1.2.1.2. Exposure to Loud Noises
    - 1.2.1.3. Diseases and Medical Conditions
  - 1.2.2. Classification of Hearing Loss
    - 1.2.2.1. Conductive Hearing Loss
    - 1.2.2.2. Sensorineural Hearing Loss
    - 1.2.2.3. Mixed Hearing Loss
  - 1.2.3. Consequences of Child Hearing Loss
    - 1.2.3.1. Impact on Language Development
    - 1.2.3.2. Impact on Emotional and Social Development
    - 1.2.3.3. Impact on Performance School
- 1.3. Conventional Hearing Aids
  - 1.3.1. History of the Hearing Aid
    - 1.3.1.1. First Hearing Aids
    - 1.3.1.2. Technological Evolution of Hearing Aids



1.3.2. Components and Operation 1.3.2.1. Microphone 1.3.2.2. Amplifier 1.3.2.3. Receiver and Internal Hearing Aid 1.3.3. Types of Hearing Aids 1.3.3.1. Behind-the-Ear Hearing Aids 1.3.3.2. In-the-Canal Hearing Aids 1.3.3.3. Full-Ear Hearing Aids 1.4. Bone Conduction Implants and Middle Ear Implants 1.4.1. Basic Concepts 1.4.1.1. Bone Conduction Principle 1.4.1.2. Indications for Bone Conduction Implants 1.4.2. Types of Implants and Indications 1.4.2.1. Bone Conduction Implants 1.4.2.2. Middle Ear Implants 1.4.3. Surgery Osseointegrated Implant 1.4.3.1. Surgical Procedure 1.4.3.2. Risks and Benefits Cochlear implants 1.5.1. Cochlear Implant Components and Functioning 1.5.1.1. External Parts of the Cochlear Implant 1.5.1.2. Internal Parts of the Cochlear Implant 1.5.2. CI Indications 1.5.2.1. Indications for Adults 1.5.2.2. Indications for Children 1.5.3. Structure of a CI Program 1.5.3.1. Pre-implant Assessment 1.5.3.2. Post-operative and Follow-up 1.5.4. Cl Surgery 1.5.4.1. Surgical Procedure 1.5.4.2. Possible Complications and Their Management 1.5.4.3. Telemetry

1.6.	Assess	ement of Prosthetic Performance	
	1.6.1.		
		1.6.1.1. Technical Parameters for Assessment	
		1.6.1.2. Tools for Measuring Prosthetic Effectiveness	
	1.6.2.	Battery of Tonal Tests	
		1.6.2.1. Auditory Threshold Test	
		1.6.2.2. Tone Discrimination Test	
	1.6.3.	Battery of Verbal Tests	
		1.6.3.1. Words Recognition Test	
		1.6.3.2. Verbal Comprehension Test	
1.7.	Comm	unication Methods and Systems	
	1.7.1.		
		1.7.1.1. Speech Method	
		1.7.1.2. Auditory Stimulation Methods	
	1.7.2.	•	
		1.7.2.1. Sign Language	
		1.7.2.2. Gestures and Mime	
	1.7.3.	Mixed Methods	
		1.7.3.1. Integration of Sign Language and Oral Communication	
		1.7.3.2. Benefits of Mixed Methods	
1.8.	Advice for the Family of the Hearing-Impaired Child		
	1.8.1.	Impact on the Family	
		1.8.1.1. Psychological Adaptation of Parents	
		1.8.1.2. Family Dynamics in Response to Hearing Loss	
	1.8.2.	Guidance for Relatives of Children Aged 0-6	
		1.8.2.1. Early Stimulation Strategies	
		1.8.2.2. Support on Language Development	
	1.8.3.	Guidance for Relatives of Children Aged 6-12	
		1.8.3.1. Support in School Integration	
		1.8.3.2. Strategies for Socialization	
	1.8.4.	Development of School, Social and Emotional Competence	
		1.8.4.1. Setting Educational Goals	
		1.8.4.2. Support in Emotional Development	

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1.9.	Technical Aids and Schooling for the Hearing Impaired Child	
	1.9.1.	Frequency Modulation Systems
		1.9.1.1. Use in the Classroom
		1.9.1.2. Adaptation and Benefits
	1.9.2.	Magnetic Loops and Connectivity
		1.9.2.1. Principle of Operation
		1.9.2.2. Integration with Other Devices
	1.9.3.	School Acoustics
		1.9.3.1. Optimization of the Acoustic Environment in the Classroom
		1.9.3.2. Measures to Reduce Environmental Noise
	1.9.4.	Visual Resources
		1.9.4.1. Use of Subtitles and Visual Screens
		1.9.4.2. Integration of Visual Technologies in the Classroom
1.10.	Auditor	y Rehabilitation of the Post-Lingual Deaf with a Cochlear Implant
	1.10.1.	Detection
		1.10.1.1. Initial Hearing Assessment
		1.10.1.2. Early Identification of Difficulties
	1.10.2.	Discrimination
		1.10.2.1. Tone Discrimination Training
		1.10.2.2. Speech Discrimination Training
	1.10.3.	Identification
		1.10.3.1. Recognition of Environmental Sounds
		1.10.3.2. Identification of Speech Sounds
	1.10.4.	Detection
		1.10.4.1. Detection of Isolated Words
		1.10.4.2. Detection of Complete Sentences
	1.10.5.	Comprehension
		1.10.5.1. Comprehension of Discourse in Context
		1.10.5.2. Strategies to Improve Auditory Comprehension

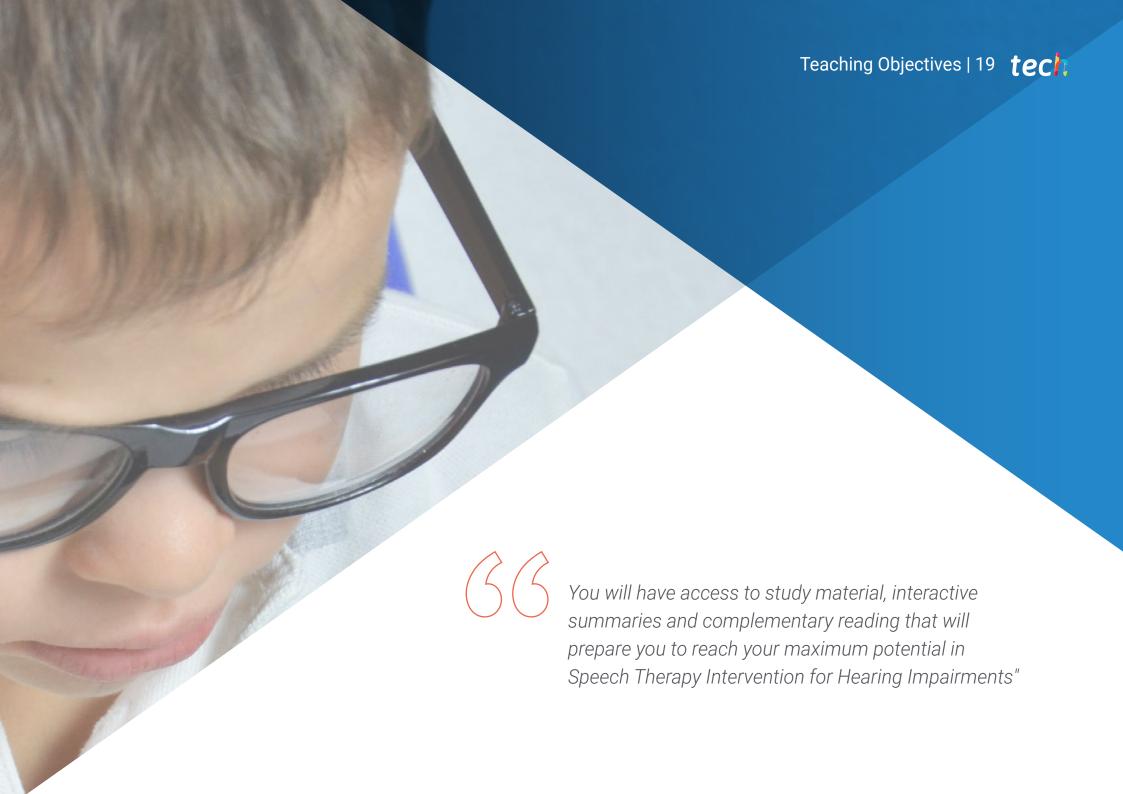






You will study under the guidance of experts using a 100% online methodology, adapted to your pace. Enroll now and specialize in a key area of healthcare!"





### tech 20 | Teaching Objectives



### **General Objectives**

- Analyze the impact of hearing impairments on communication and language development
- Identify the different types and degrees of hearing loss in children and adults
- Assess hearing ability using specialized tests and diagnostic tools
- Apply speech therapy intervention strategies to improve communication in people with hearing loss
- Design hearing rehabilitation programs tailored to the needs of each patient
- Integrate the use of hearing aids and cochlear implants in speech therapy intervention processes
- Implement auditory training techniques to enhance sound perception and discrimination
- Develop guidance and counseling skills for families and educators on hearing impairment
- Research new methodologies and technological advances in the treatment of hearing impairments
- Promote the social and educational inclusion of people with hearing loss through effective communication strategies





### Teaching Objectives | 21 tech



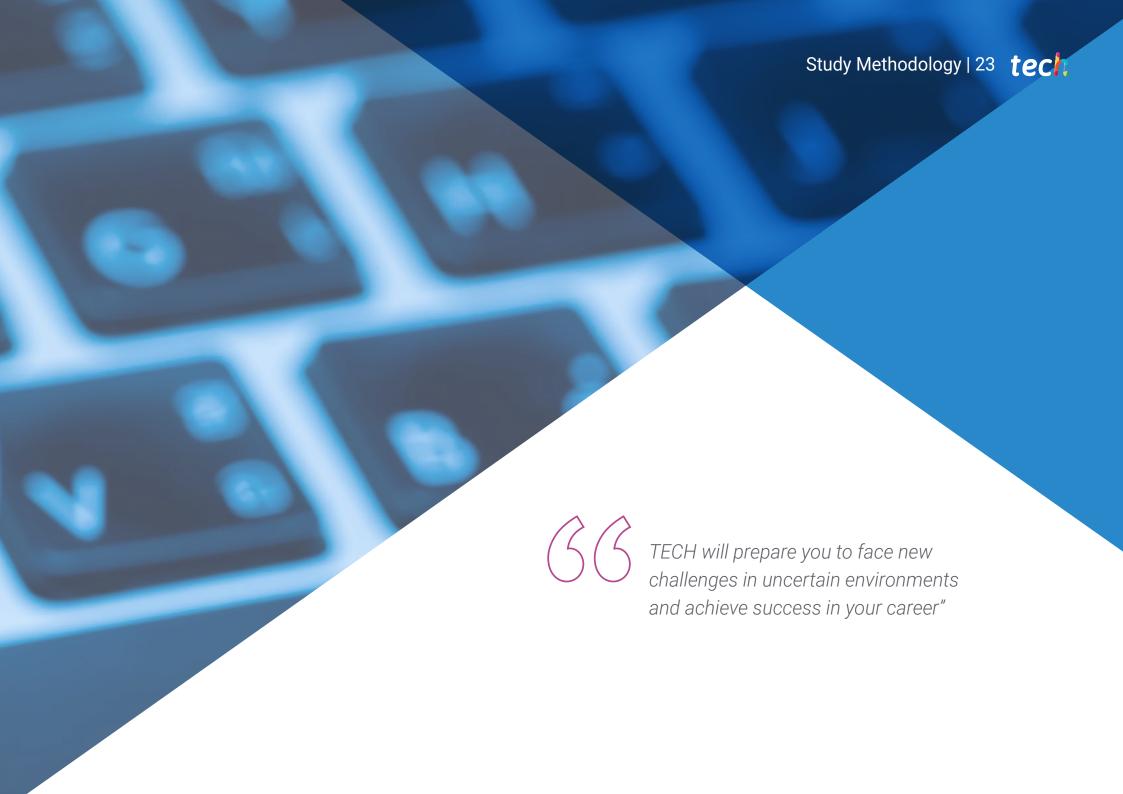
### **Specific Objectives**

- Identify alterations in auditory perception and their impact on communication and social, school and family integration
- Evaluate the therapeutic options available for auditory rehabilitation, differentiating the approaches according to the type of hearing loss
- Know and apply audio-prosthetic devices appropriate for each degree of hearing loss
- Understand the fundamentals of cochlear implants and select the appropriate candidates for this device



Thanks to TECH's 99% employability, you will conquer the labor market, backed by an innovative academic quality that will allow you to succeed in this sector"



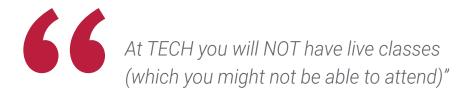


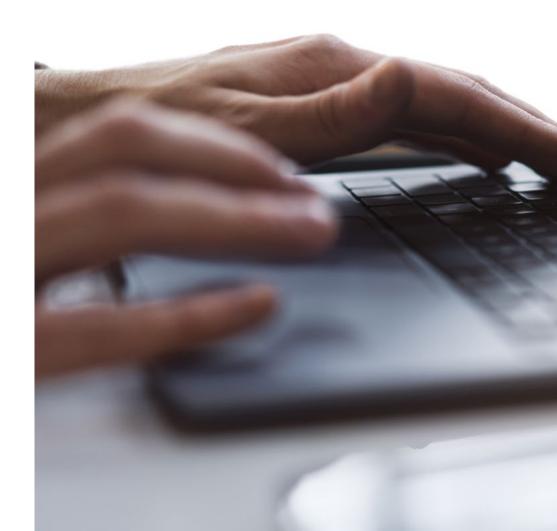
### The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.









### The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.



TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want"

### tech 26 | Study Methodology

#### Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



### Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.





### A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

#### 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 assess 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.

### Study Methodology | 29 tech

### The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.

As such, the best educational materials, thoroughly prepared, will be available in this program:



#### **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.

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.



#### **Practicing Skills and Abilities**

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



#### **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 exclusive educational 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 education.

**Case Studies** 

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.



**Testing & Retesting** 

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

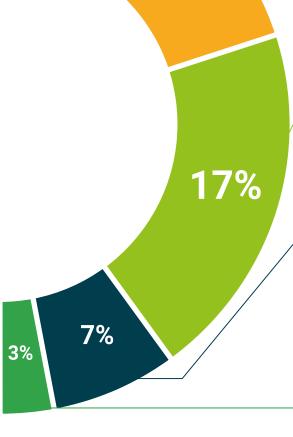


Learning from an expert strengthens knowledge and memory, and generates confidence for future difficult decisions.

**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 private qualification will allow you to obtain a diploma for the **Postgraduate Certificate in Speech Therapy Intervention for Hearing Impairments** 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** private qualification, 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 Speech Therapy Intervention for Hearing Impairments

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



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

#### Postgraduate Certificate in Speech Therapy Intervention for Hearing Impairments

This is a private qualification of 180 hours of duration equivalent to 6 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



<sup>\*</sup>Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

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



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