

Postgraduate Certificate Technological Resources in Speech Therapy





Postgraduate Certificate Technological Resources in Speech Therapy

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/technological-resources-speech-therapy

Index

01

Introduction to the Program

p. 4

02

Why Study at TECH?

p. 8

03

Syllabus

p. 12

04

Teaching Objectives

p. 16

05

Study Methodology

p. 20

06

Certificate

p. 30

01

Introduction to the Program

The integration of advanced technologies in the field of speech therapy has allowed for improved evaluation and treatment of Communication Disorders. Tools like augmented reality and virtual reality offer enriched environments that combine the real world with three-dimensional virtual elements, facilitating the development of linguistic and cognitive skills in patients with various pathologies. These technological innovations not only optimize the effectiveness of therapeutic interventions but also expand the possibilities for personalization and monitoring of patient progress. In this context, TECH has created a fully online program that flexibly adapts to the personal and professional schedules of graduates, based on the revolutionary Relearning methodology, which is pioneering at this institution.



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With this 100% online university course, you will manage alternative and augmentative communication systems, technological devices, and innovative techniques that optimize the accuracy of diagnosis”

In recent years, speech therapy has experienced technological advancements that have optimized the evaluation and treatment of communication disorders. Artificial intelligence (AI) has allowed, for example, the cloning of voices for patients who have lost the ability to speak due to a stroke.

Thus, this university course was created to develop skills that allow for the selection, adaptation, and application of alternative and augmentative communication systems, always considering the individual needs of each patient. These systems, essential for people with severe communication disabilities, will be analyzed in depth, including their personalized design and implementation in clinical and educational environments.

Additionally, emphasis will be placed on managing technologies and technical aids that enhance learning and speech therapy intervention, using prosthetics and assistive devices such as electronic communicators, mobile apps, and specialized software, tools that have shown to significantly improve patients' quality of life. Strategies to facilitate the use of these technologies will also be addressed, maximizing their effectiveness through patient and family training in their use.

Finally, training in advanced evaluation and diagnostic techniques and tools, essential for accurately identifying the needs of each patient, will be included. In this regard, innovative methodologies for analyzing communicative and linguistic abilities will be examined, integrating technologies like artificial intelligence and data-based communication systems. This will allow for improved therapeutic processes and personalized interventions, achieving more effective results that align with the particularities of each case.

As such, TECH has developed a comprehensive 100% online program, with high-quality academic materials and resources accessible from any electronic device with an internet connection. This will eliminate the difficulties of having to travel to a physical location or adjust to strict schedules. Additionally, it will use the innovative Relearning methodology, based on the continuous repetition of key concepts to ensure effective and natural understanding of the content.

This **Postgraduate Certificate in Technological Resources in Speech Therapy** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- ♦ The development of case studies presented by experts in Medicine and 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 the self-assessment process can be carried out to improve learning
- ♦ Special emphasis on innovative methodologies in Technological Resources in Speech Therapy
- ♦ 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 personalize treatment strategies according to the specific needs of each patient, which will be key in complex cases such as Autism Spectrum Disorders, Aphasias or Dysarthrias”

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This comprehensive approach will provide you with the skills necessary to transform speech therapy practice and offer quality treatment based on the latest technological advances. What are you waiting for to enroll?”

The teaching staff includes professionals belonging to the fields of Medicine and Speech Therapy, who contribute their work experience to this program, as well as renowned specialists from reference 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.

You will update your knowledge and skills in advanced tools and techniques that optimize intervention in patients with Speech and Communication Disorders. With all TECH's quality guarantees!

You will use voice generation devices, specialized mobile applications and interactive software, which not only favor the therapeutic process, but also promote patient autonomy.



02

Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs, available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it has a huge faculty of more than 6,000 professors of the highest international prestige.



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Study at the largest online university in the world and ensure your professional success. The future begins at TECH”

The world's best online university, according to FORBES

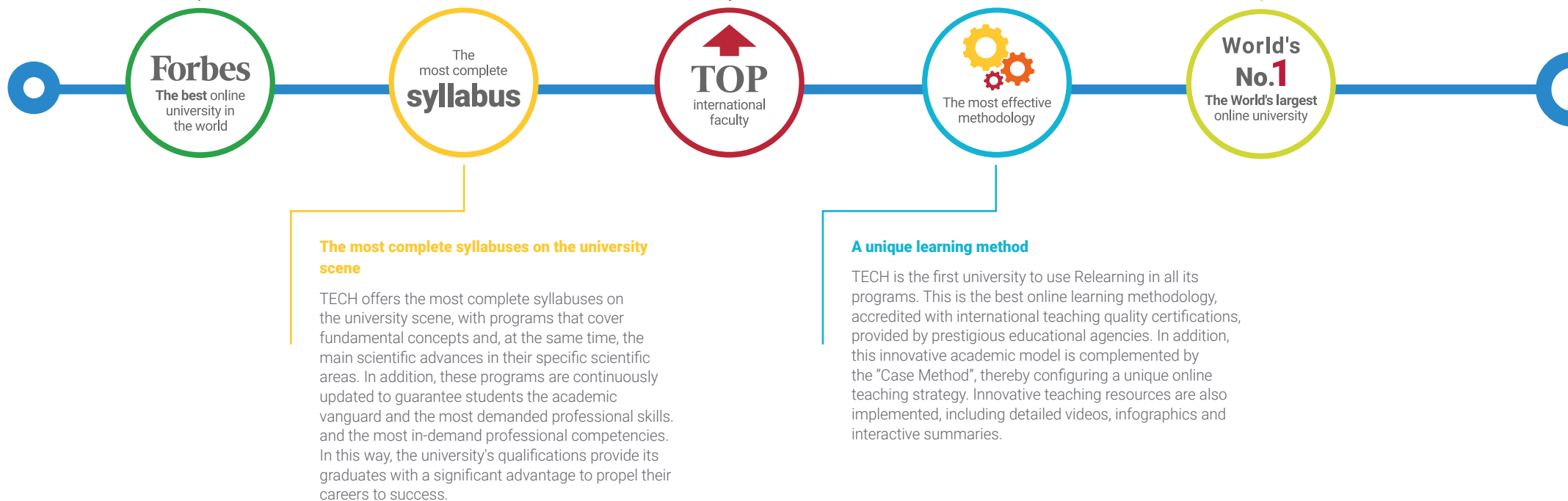
The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer 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 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.



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 top-rated 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.



03 Syllabus

The curriculum will include subjects dedicated to the selection and adaptation of Augmentative and Alternative Communication Systems (AACs), the use of prosthetics and technical aids, as well as the mastery of advanced tools for the evaluation and diagnosis of Speech and Language Disorders. In addition, content will be addressed on the implementation of communication technologies, such as mobile applications, interactive software and voice generation devices, which will allow doctors to personalize therapies according to the characteristics of each patient.





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Bet on TECH! You will develop skills to select, adapt and apply Augmentative and Alternative Communication Systems (AACs), taking into account the specific needs of each patient"

Module 1. Technological Resources in Speech Therapy

- 1.1. Use of Digital Technologies in Speech Therapy Intervention
 - 1.1.1. Digital Tools in Speech and Language Assessment
 - 1.1.1.1. Voice Analysis Applications for Diagnosis
 - 1.1.2. Applications for Speech Rehabilitation
 - 1.1.2.1. Interactive Games for Speech Improvement
 - 1.1.3. Use of Simulators and Interactive Games in Speech Therapy
 - 1.1.3.1. Voice Simulators for Therapy
 - 1.1.4. Telemedicine Platforms for Speech Therapy
 - 1.1.4.1. Videoconferencing Platforms for Therapy Sessions
- 1.2. Technological Tools for Assessment and Diagnosis in Speech Therapy
 - 1.2.1. Voice and Pronunciation Analysis Software
 - 1.2.1.1. Acoustic Analysis Tools
 - 1.2.2. Tools for the Assessment of Verbal Comprehension and Expression
 - 1.2.2.1. Software for the Assessment of Verbal Fluency
 - 1.2.3. Digital Techniques for the Diagnosis of Speech Disorders
 - 1.2.3.1. Digital Assessment of Dysarthria
 - 1.2.4. Technological Equipment for the Assessment of Hearing and Language Perception
 - 1.2.4.1. Digital Tests for Hearing Assessment
- 1.3. Mobile Apps for Learning Alternative and Augmentative Communication Systems
 - 1.3.1. Apps for Training in the Use of Pictograms
 - 1.3.1.1. Programs for Learning Visual Pictograms
 - 1.3.2. Tools for Monitoring Patients in the Use of Alternative Systems
 - 1.3.2.1. Daily Use Monitoring Apps
 - 1.3.3. Apps for Improving Communication in Children and Adults with Disorders
 - 1.3.3.1. Personalized Applications for Children with Autism
 - 1.3.4. Personalized Programs for Learning Signs and Symbols
 - 1.3.4.1. Apps for Teaching Sign Language
- 1.4. Virtual Platforms for Speech Therapy Rehabilitation
 - 1.4.1. Interactive Platforms for Remote Language Therapy
 - 1.4.1.1. Platforms with Interactive Exercises in Real Time
 - 1.4.2. Use of Videoconferencing in Speech Therapy Rehabilitation
 - 1.4.2.1. Benefits of Teletherapy for Remote Patients
 - 1.4.3. Online Programs for Monitoring Patient Progress
 - 1.4.3.1. Progress Monitoring Software
 - 1.4.4. Real-Time Feedback Tools for Therapists and Patients
 - 1.4.4.1. Real-Time Vocal Feedback Applications
- 1.5. Assistive Technologies for Improving Communication in Patients with Disabilities
 - 1.5.1. Computer-generated Voice Devices
 - 1.5.1.1. Voice Technologies for People with Aphasia
 - 1.5.2. Reading and Writing Technologies for Visually Impaired People
 - 1.5.2.1. Reading Software for Blind People
 - 1.5.3. Hearing Aids and Sound Amplification Systems
 - 1.5.3.1. Amplification Devices for Patients with Hearing Loss
 - 1.5.4. Assistive Technologies for People with Cerebral Palsy
 - 1.5.4.1. Communication Devices for People with Limited Mobility
- 1.6. Design and Use of Electronic Devices for Communication Prostheses
 - 1.6.1. Electronic Devices for Patients with Aphasia
 - 1.6.1.1. Augmentative Communication Devices for Aphasia
 - 1.6.2. Vocal Prostheses and their Integration into Daily Communication
 - 1.6.2.1. Prosthetic Devices for the Improvement of Speech and Voice
 - 1.6.3. Portable Technologies to Improve Communication in People with Paralysis
 - 1.6.3.1. Portable Prostheses for Patients with Paralysis
 - 1.6.4. Devices for the Improvement of Speech in Patients with Dysarthria
 - 1.6.4.1. Support Devices for Vocal Articulation
- 1.7. Devices for Improving Speech in Patients with Dysarthria
 - 1.7.1. Impact of Technology on the Efficiency of Speech Therapy
 - 1.7.1.1. Improvements in the Quality of Treatments with Technology
 - 1.7.2. Tools for Data Collection and Analysis of Patient Progress
 - 1.7.2.1. Clinical Data Analysis Software
 - 1.7.3. Recording Technologies for Monitoring Speech Therapy Intervention
 - 1.7.3.1. Platforms for Recording Therapy Sessions
 - 1.7.4. Use of Social Networks and Virtual Communities for Collaborative Learning
 - 1.7.4.1. Social Network Support Groups for Patients
 - 1.7.4.2. Professional Development Groups



- 1.8. Specialized Software for Speech Therapy Assessment
 - 1.8.1. Computer Programs for the Early Detection of Language Disorders
 - 1.8.1.1. Screening Software
 - 1.8.2. Digital Tools for Assessing Pronunciation and Verbal Fluency
 - 1.8.2.1. Speech Analysis Tools
 - 1.8.3. Software for Assessment of Reading Comprehension and Written Expression
 - 1.8.3.1. Programs for the Assessment of Reading Comprehension
 - 1.8.3.2. Text Assessment Programs
 - 1.8.4. Voice Analysis Platforms for Speech Therapy Diagnoses
 - 1.8.4.1. Applications for the Analysis of Vocal Parameters
- 1.9. Integration of Technological Resources in Personalized Speech Therapy Treatments
 - 1.9.1. Adaptation of Applications and Devices to Individual Needs
 - 1.9.1.1. Customization of Applications According to Specific Disorders
 - 1.9.2. Use of Artificial Intelligence in the Customization of Treatments
 - 1.9.2.1. Intelligent Systems for Adapting Speech Therapy
 - 1.9.3. Design of Specific Digital Programs According to Speech Therapy Disorder
 - 1.9.4. Personalization of Intervention Through the Analysis of Patient Data
 - 1.9.4.1. Use of Clinical Data to Personalize Therapy
- 1.10. Strategies to Integrate Accessible Technologies into the Daily Lives of Patients with Communication Needs
 - 1.10.1. Use of Technologies to Improve Communication at Home
 - 1.10.1.1. Devices for Family Communication
 - 1.10.2. Integration of Devices at School or Work for Patients with Communication Difficulties
 - 1.10.2.1. Assistive Technologies in Educational Settings
 - 1.10.3. Adaptation of Technologies to Facilitate Social Inclusion
 - 1.10.3.1. Tools for the Social Integration of People with Disabilities
 - 1.10.4. Training Programs for Family Members and Caregivers in the Use of Accessible Technologies
 - 1.10.4.1. Training Workshops for the Use of Assistive Devices

04

Teaching Objectives

This program will seek to develop skills for selecting, adapting and applying Augmentative and Alternative Communication Systems (AACs), taking into account the individual needs and context of each patient. Likewise, professionals will be trained in the use of prostheses, technical aids and communication technologies, optimizing treatment and enhancing the personalization of therapies. Emphasis will also be placed on the importance of innovation and continuous updating, providing doctors with the knowledge necessary to offer more effective interventions focused on improving patients' quality of life.



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You will master innovative technologies and technical aids, essential for enhancing the use of intervention and diagnostic tools in Speech Therapy, through the best teaching materials on the academic scene”

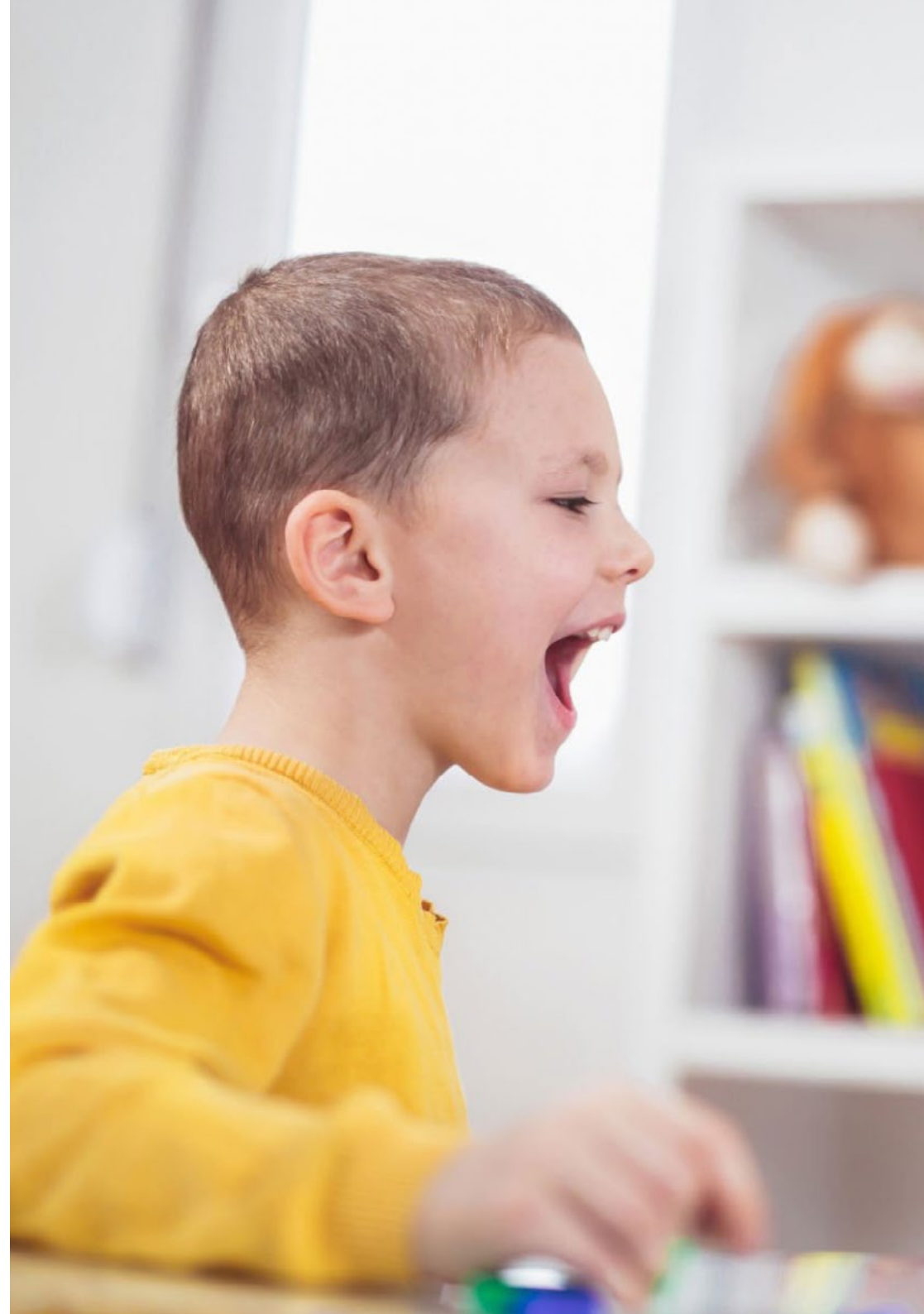


General Objectives

- ♦ Develop skills to select, adapt and apply alternative and augmentative communication systems, taking into account the individual needs and context of each patient.
- ♦ Manage technologies and technical aids, promoting the learning of intervention and evaluation tools in Speech Therapy to improve the quality of treatment and diagnosis

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You will implement prostheses and technological devices that improve the communication skills of your patients, always counting on the support of the revolutionary Relearning methodology, a pioneer in TECH”





Specific Objectives

- ♦ Select and adapt alternative and augmentative communication systems according to the context of each patient
- ♦ Facilitate the learning of alternative systems and increase the use of prostheses and technical aids
- ♦ Know and apply evaluation and diagnostic techniques and instruments in speech therapy
- ♦ Manage communication technologies to improve speech therapy intervention

05 Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



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TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

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.

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*At TECH you will NOT have live classes
(which you might not be able to attend)”*



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*”

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.

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.

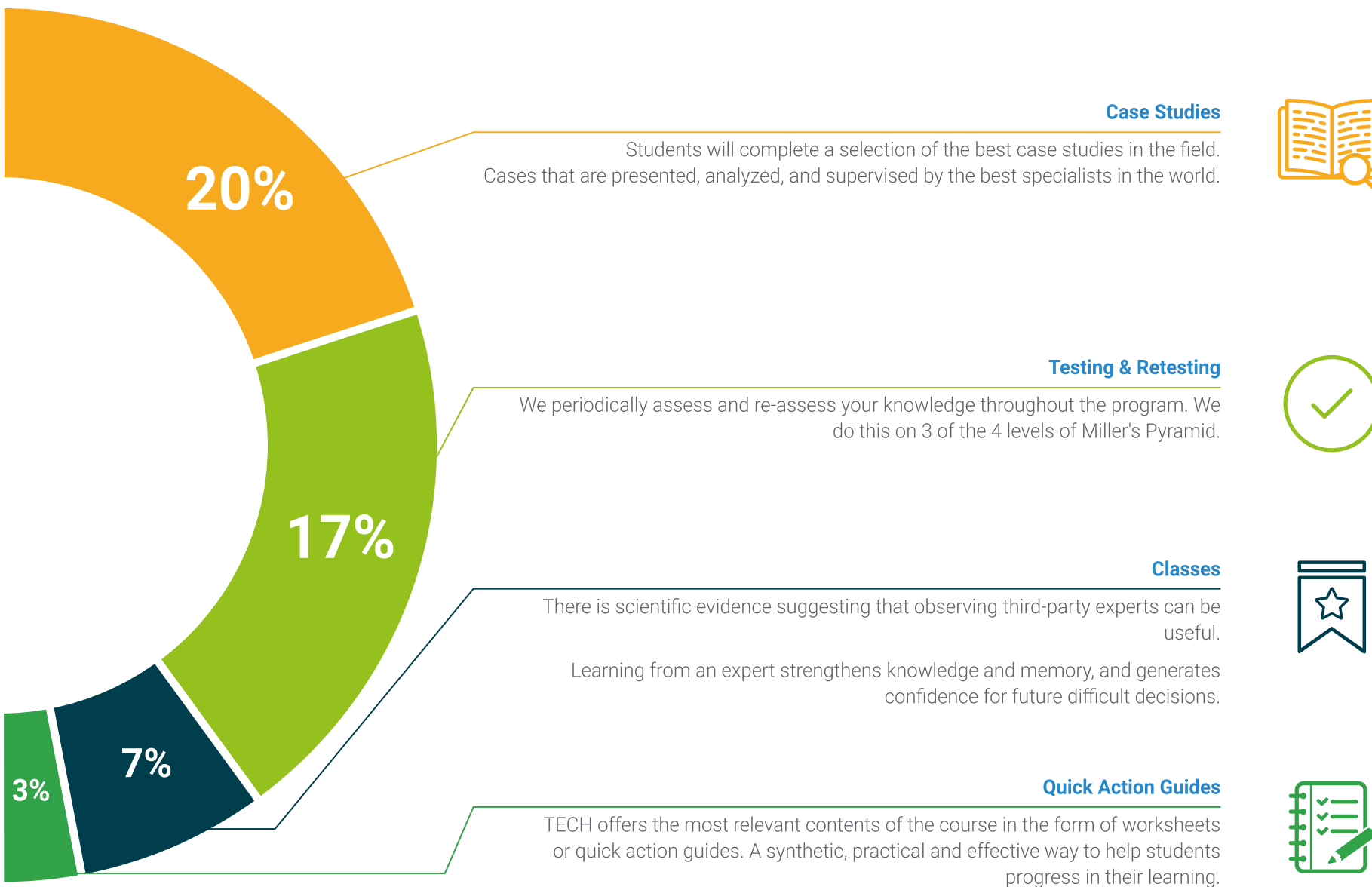
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





06 Certificate

This Postgraduate Certificate in Technological Resources in Speech Therapy guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the Postgraduate Certificate issued by TECH Global University.



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

This private qualification will allow you to obtain a diploma for the **Postgraduate Certificate in Technological Resources in Speech Therapy** 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 Technological Resources in Speech Therapy**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
online training
development languages
virtual classroom



Postgraduate Certificate Technological Resources in Speech Therapy

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate

Technological Resources in Speech Therapy

