

Postgraduate Certificate

Neuropsychology of Language



Postgraduate Certificate Neuropsychology of Language

- » 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/neuropsychology-language

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01

Introduction to the Program

The neuropsychology of Language has become established as an essential discipline for understanding the brain processes that underlie linguistic abilities and their disorders. In this sense, its capacity to evaluate, diagnose and treat language alterations based on a deep knowledge of brain anatomy and functionality is crucial for improving the prognosis of patients with neuropsychological disorders. For this reason, specialists need to keep up to date with the latest advances in this field in order to optimize therapeutic interventions and improve the general well-being of patients in the long term. With the aim of facilitating this work, TECH has created an innovative, fully online university program focused on the Neuropsychology of Language.



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Through this 100% online program, you will design therapeutic plans based on neuropsychological approaches to manage language dysfunctions and improve patients' quality of life”

A recent study by the World Health Organization estimates that over 50 million people worldwide live with some type of neurological language disorder, with aphasia being one of the most prominent. Faced with this reality, professionals have the responsibility to acquire advanced clinical skills to use state-of-the-art tools that enhance both diagnosis and treatment of these conditions, grounded in the latest scientific findings and neuropsychological technologies.

In this context, TECH introduces a groundbreaking program in the neuropsychology of language. Developed by leading experts in the field, the academic curriculum delves into topics ranging from the most advanced speech therapy strategies for treating communication disorders, to various techniques for language rehabilitation, and the mechanisms of neural plasticity. Thanks to this, graduates will gain advanced clinical competencies to design highly personalized therapeutic programs that significantly improve the overall well-being of patients with language disorders.

The university program's methodology is based on TECH's disruptive Relearning method, which ensures the gradual and natural assimilation of complex concepts. Aligned with this approach, all physicians need is an electronic device with internet access to enter the Virtual Campus. There, they will find numerous resources in different multimedia formats (such as interactive summaries, case studies or specialized readings) to enjoy a didactic and entertaining update. In this sense, the physicians will enjoy the freedom to individually plan their schedules and pace of study, which will allow them to update their knowledge without hindering their full-time healthcare work.

This **Postgraduate Certificate in Neuropsychology of Language** 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 Neuropsychology of Language.
- ♦ 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
- ♦ Its special emphasis on innovative methodologies in medical practice
- ♦ 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 gain a comprehensive understanding of the neurological foundations underlying the language process, including the functional anatomy of the brain"

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With the Relearning methodology promoted by TECH, you will consolidate the key concepts of the syllabus efficiently and immediately”

Its teaching staff includes professionals from the field of Neuropsychology of Language, 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.

You will carry out therapeutic interventions based on neuropsychological approaches for the rehabilitation of Language Disorders.

You will be able to identify different language disorders associated with Brain Injuries, such as Aphasia and Dysarthria.



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

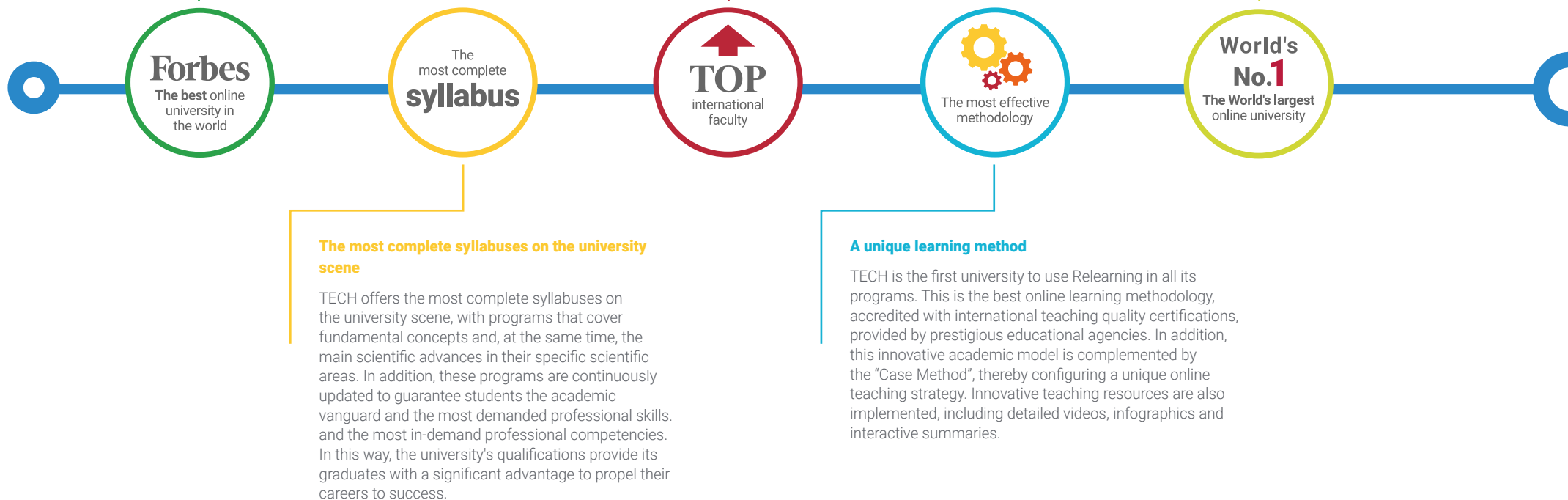
The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer 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 teaching content that makes up this program has been designed by true experts in the field of Neuropsychology of Language. The syllabus will delve into factors ranging from different neuroimaging techniques and the neuroanatomical bases of language to the use of cutting-edge technologies to optimize patient rehabilitation. In this way, graduates will be able to apply advanced approaches to the neuropsychological evaluation of language, integrate innovative technologies into treatments and offer personalized care to users with language disorders.



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You will delve into the application of neuropsychological knowledge about language and its conditions in clinical practice, using sophisticated diagnostic techniques”

Module 1. Neuropsychology of Language

- 1.1. Neuropsychology and Speech Therapy
 - 1.1.1. Basic Concepts
 - 1.1.1.1. Definition of Neuropsychology
 - 1.1.1.2. Relationship between Neuropsychology and Speech Therapy
 - 1.1.1.3. Cognitive Functions and their Relationship with Language
 - 1.1.2. Assessment Methodologies
 - 1.1.2.1. Neuroimaging Techniques
 - 1.1.2.2. Neuropsychological Assessment of Language
 - 1.1.3. Technique and Approach Route
 - 1.1.3.1. Interdisciplinary Approach to Speech Therapy
 - 1.1.3.2. Techniques for Neuropsychological Rehabilitation of Language
 - 1.1.3.3. Speech Therapy Strategies for the Treatment of Cognitive and Communicative Disorders
- 1.2. Neuroanatomical Bases of Language
 - 1.2.1. Brain Structures Involved
 - 1.2.1.1. Broca's and Wernicke's Areas
 - 1.2.1.2. Angular Gyrus and its Role in Reading
 - 1.2.1.3. Temporal Lobe and Its Relationship with Comprehension
 - 1.2.2. Brain Connections
 - 1.2.2.1. Arcuate Fasciculus
 - 1.2.2.2. Interhemispheric Connections
 - 1.2.3. Left vs. Right Brain in Language
 - 1.2.3.1. Hemispheric Dominance
 - 1.2.3.2. Function of the Right Hemisphere in Non-verbal Language
- 1.3. Neurocognitive Processes of Language
 - 1.3.1. Language Comprehension
 - 1.3.1.1. Phonological and Lexical Decoding
 - 1.3.1.2. Semantic and Pragmatic Comprehension
 - 1.3.2. Language Production
 - 1.3.2.1. Phonological Processing
 - 1.3.2.2. Lexical, Syntactic and Semantic Processing





- 1.3.3. Memory and Language
 - 1.3.3.1. Verbal Working Memory
 - 1.3.3.2. Long-Term Memory and Language
- 1.4. Neuronal Plasticity and Language
 - 1.4.1. Concept of Brain Plasticity
 - 1.4.1.1. Definition and Types of Brain Plasticity
 - 1.4.1.2. Factors Influencing Brain Plasticity
 - 1.4.2. Mechanisms of Neuronal Plasticity
 - 1.4.2.1. Synaptic Plasticity and its Role in Learning
 - 1.4.2.2. Neurogenesis and its Implication in Brain Repair
 - 1.4.3. Impact of Plasticity on Language Recovery
 - 1.4.3.1. Adaptation Mechanisms in Language Disorders
 - 1.4.3.2. Cortical Plasticity in Language Restructuring
 - 1.4.4. Age and Plasticity
 - 1.4.4.1. Effects of Early Age on Neuronal Plasticity
 - 1.4.4.2. Plasticity in Adulthood and its Relationship with Language Learning
 - 1.4.5. Brain Rehabilitation and Stimulation
 - 1.4.5.1. Brain Stimulation Techniques for Language Rehabilitation
 - 1.4.5.2. Speech Therapies and their Impact on Neuronal Plasticity
- 1.5. Neurobiological Language Disorders in Children
 - 1.5.1. Speech Disorders
 - 1.5.1.1. Speech Disorders
 - 1.5.1.2. Childhood Apraxia
 - 1.5.1.3. Childhood Dysarthria
 - 1.5.2. Language Disorders
 - 1.5.2.1. Specific Language Disorder (SLD)
 - 1.5.2.2. Developmental Language Disorder
 - 1.5.2.3. Simple Language Delay
 - 1.5.3. Related Disorders and Neurodevelopmental Disorders
 - 1.5.3.1. Acquired Childhood Aphasia
 - 1.5.3.2. Autism Spectrum Disorder
 - 1.5.3.3. Down Syndrome
 - 1.5.3.4. Cerebral Palsy

- 1.6. Neuropsychological Assessment of Language in Children
 - 1.6.1. Assessment Techniques
 - 1.6.1.1. Standardized Tests
 - 1.6.1.2. Clinical and Observational Assessment
 - 1.6.2. Specific Neuropsychological Instruments
 - 1.6.2.1. Verbal Fluency Assessment
 - 1.6.2.2. Language Development Scales
 - 1.6.3. Interpretation of Results
 - 1.6.3.1. Analysis of Language Skills
 - 1.6.3.2. Identification of Disorders and Comorbidities
- 1.7. Neuropsychological Rehabilitation in Children
 - 1.7.1. Early Intervention
 - 1.7.1.1. Language Therapy
 - 1.7.1.2. Early Stimulation Approaches
 - 1.7.2. Specific Therapeutic Approaches
 - 1.7.2.1. Therapies Based on Games
 - 1.7.2.2. Cognitive-Behavioral Therapy for Language
 - 1.7.3. Rehabilitation Techniques
 - 1.7.3.1. Brain Plasticity Therapies
 - 1.7.3.2. Language Rehabilitation Using Technology
- 1.8. Neurobiological Language Disorders in Adults
 - 1.8.1. Aphasia
 - 1.8.1.1. Broca's Aphasia
 - 1.8.1.2. Wernicke's Aphasia
 - 1.8.1.3. Global Aphasia
 - 1.8.2. Disorders Related to Acquired Brain Injury
 - 1.8.2.1. Dysarthria
 - 1.8.2.2. Speech Apraxias
 - 1.8.3. Neurodegenerative Disorders
 - 1.8.3.1. Alzheimer's Disease and Language
 - 1.8.3.2. Language Disorders in Amyotrophic Lateral Sclerosis (ALS)
 - 1.8.3.3. Language Disorders in Parkinson's Disease





- 1.9. Neuropsychological Assessment of Language in Adults
 - 1.9.1. Neuropsychological Tests in Adults
 - 1.9.1.1. Assessment of Aphasias
 - 1.9.1.2. Assessment of Cognitive and Linguistic Disorders
 - 1.9.2. Diagnostic Methods
 - 1.9.2.1. Clinical Interviews and Medical History
 - 1.9.2.2. Functional Assessment Scales
 - 1.9.3. Interpretation of Results in Adults
 - 1.9.3.1. Assessment of Verbal Disfluency
 - 1.9.3.2. Differentiation between Aphasia and Dementia
- 1.10. Neuropsychological Rehabilitation in Adults
 - 1.10.1. Rehabilitation after a Cerebrovascular Accident (CVA)
 - 1.10.1.1. Post-CVA Speech Therapy
 - 1.10.1.2. Approaches Based on Neuroplasticity
 - 1.10.2. Rehabilitation in Neurodegenerative Diseases
 - 1.10.2.1. Intervention Approaches in Alzheimer's Disease
 - 1.10.2.2. Language Rehabilitation in Amyotrophic Lateral Sclerosis (ALS)
 - 1.10.3. Emerging Therapies
 - 1.10.3.1. Cognitive-Behavioral Therapy in Aphasia
 - 1.10.3.2. Use of Technologie for Language Rehabilitation



You will have access to a wide range of dynamic resources, including in-depth videos, interactive summaries and readings based on the latest scientific evidence"

04 Teaching Objectives

This TECH program in Neuropsychology of Language is designed to provide clinicians with advanced clinical skills to address Language Disorders from a neuropsychological perspective. Upon completion of the syllabus, professionals will be able to assess, diagnose and treat various Language conditions, applying innovative therapeutic approaches. In this way, graduates will significantly improve the care of patients with neurological language conditions and contribute to their optimal cognitive rehabilitation.





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You will carry out detailed language assessments, interpreting neuropsychological tests and other clinical indicators related to Language Disorders”



General Objectives

- ♦ Use diagnostic tests and explain research techniques in Neuropsychology of Language
- ♦ Delve into the key concepts of Statistics for selecting samples
- ♦ Apply assessment techniques to diagnose Language Disorders and write speech therapy reports
- ♦ Analyze the linguistic effects derived from Neurodegenerative Diseases, such as Dementia and Multiple Sclerosis
- ♦ Define the concept of psychometrics and its relationship with speech therapy, understanding its application in the evaluation of language and communication disorders
- ♦ Identify and diagnose language disorders in different contexts, considering both the clinical manifestations and the neuropsychological aspects involved
- ♦ Design and apply effective interventions for the treatment of speech disorders, adapted to the needs of the patient
- ♦ Develop skills to assess and adjust speech therapy interventions, based on scientific evidence and advances in the field





Specific Objectives

- ♦ Analyze the neuropsychological processes involved in the production and comprehension of language.
- ♦ Understand the effects of brain damage on linguistic abilities.



A flexible university program that is not subject to fixed schedules and allows you to personalize your studies according to your needs and interests. Enroll now!"

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.

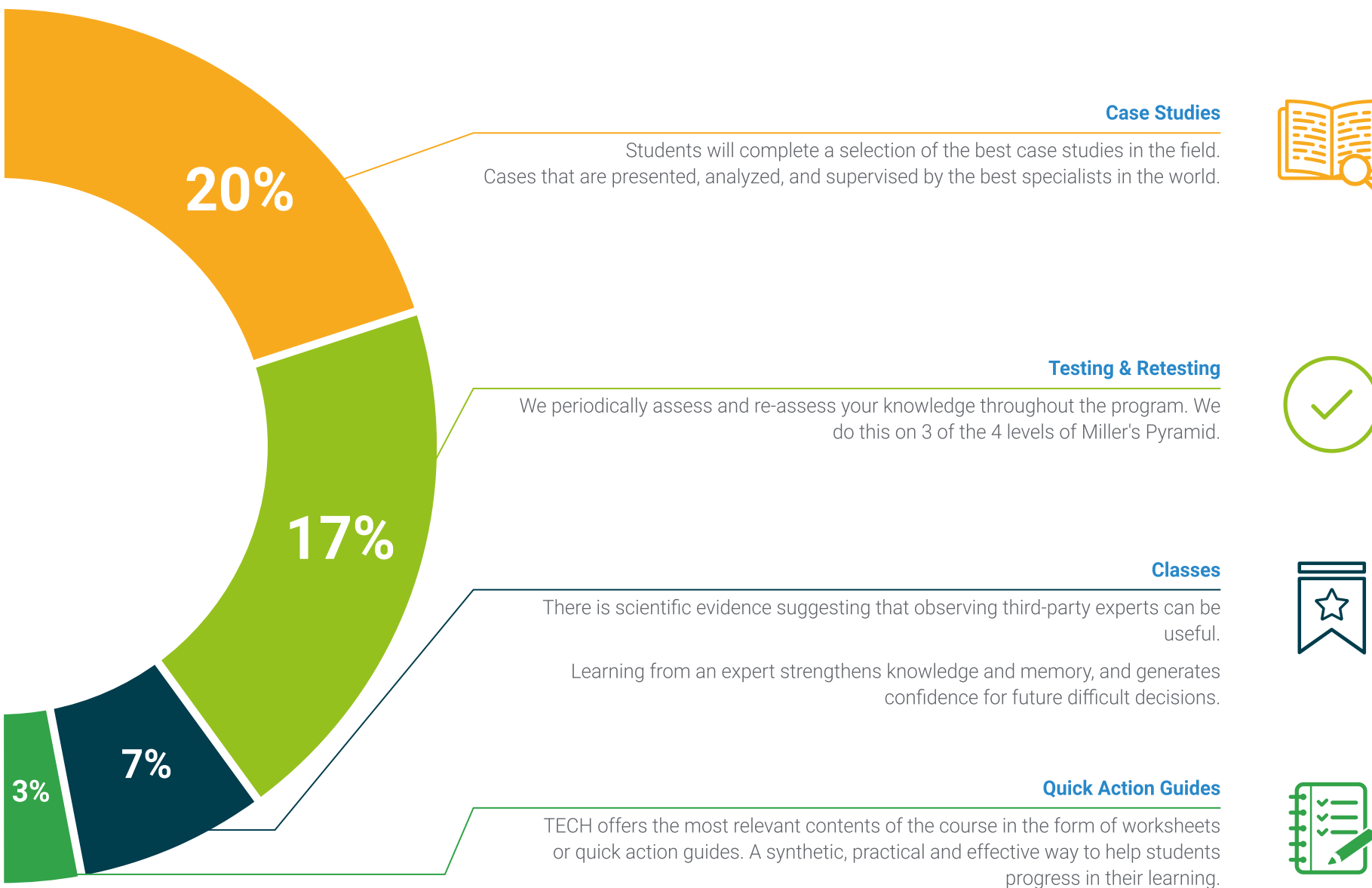
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 Neuropsychology of Language 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 Neuropsychology of Language** 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 Neuropsychology of Language**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





Postgraduate Certificate Neuropsychology of Language

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

Postgraduate Certificate

Neuropsychology of Language

