

# Postgraduate Diploma

## Neuropsychology of the Elderly





## Postgraduate Diploma Neuropsychology of the Elderly

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 19 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-neuropsychology-elderly](http://www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-neuropsychology-elderly)

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# 01

# Introduction

Neuropsychology is one of the branches of the study of the human being that presents more unknowns at present. And yet, it is a crucial element in the analysis of behavior in the elderly. This is the stage in which cognitive disorders are most prevalent. Therefore, keeping abreast of the latest advances in neuropsychology is essential for diagnosing and treating the elderly. In this regard, TECH has developed a complete program based on the most recent research on the subject. With the intention that the physician can update their knowledge and transfer it to their practice to increase the quality of care. The contents will be available to the student in a totally online modality and without timetables, thus favoring personal and work conciliation.







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*The field of brain research is constantly being renewed. Therefore, qualifications such as the present program become essential to offer the best possible treatment"*

From a strict point of view, Neuropsychology belongs to the field of Psychology. However, in practice this line is blurred and becomes just another tool for detecting pathologies in the elderly. Especially in primary care.

Therefore, it is necessary for physicians, regardless of the area, to have notions of Neuropsychology. With special emphasis on the most recent discoveries about the functioning of the brain, as well as the latest psychodiagnostic techniques. For it will be these that will allow the elderly to be treated with greater precision.

In this sense, the present program proposed by TECH studies neuropsychological and psychopathological alterations in the elderly. Delving into disorders of consciousness and perception, such as loss of attention and memory or isolation and loneliness.

In a complementary manner, an analysis will be made of the role played by the figure of the elderly in the modern conception of the family. It also provides an updated view of the evaluation and psychodiagnosis of the elderly.

All this, through a 100% online modality, without timetables and with all the syllabus available from the first day. In this way, the physician will be able to organize themselves according to their needs and reconcile their studies with their personal and professional life.

The **Postgraduate Diploma in Neuropsychology of the Elderly** contains the most complete and up to date educational program on the market. The most important features include:

- ♦ The development of case studies presented by experts in Neuropsychology of the Elderly
- ♦ The graphic, schematic, and eminently 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
- ♦ 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



*Suicide rates in the elderly continue to rise year after year. Throughout this program we will try to answer this and other questions"*

“ *Affective and sleep disorders are present in a large percentage of the elderly. Through the keys that you will find in this program, you will be able to define its origin*”

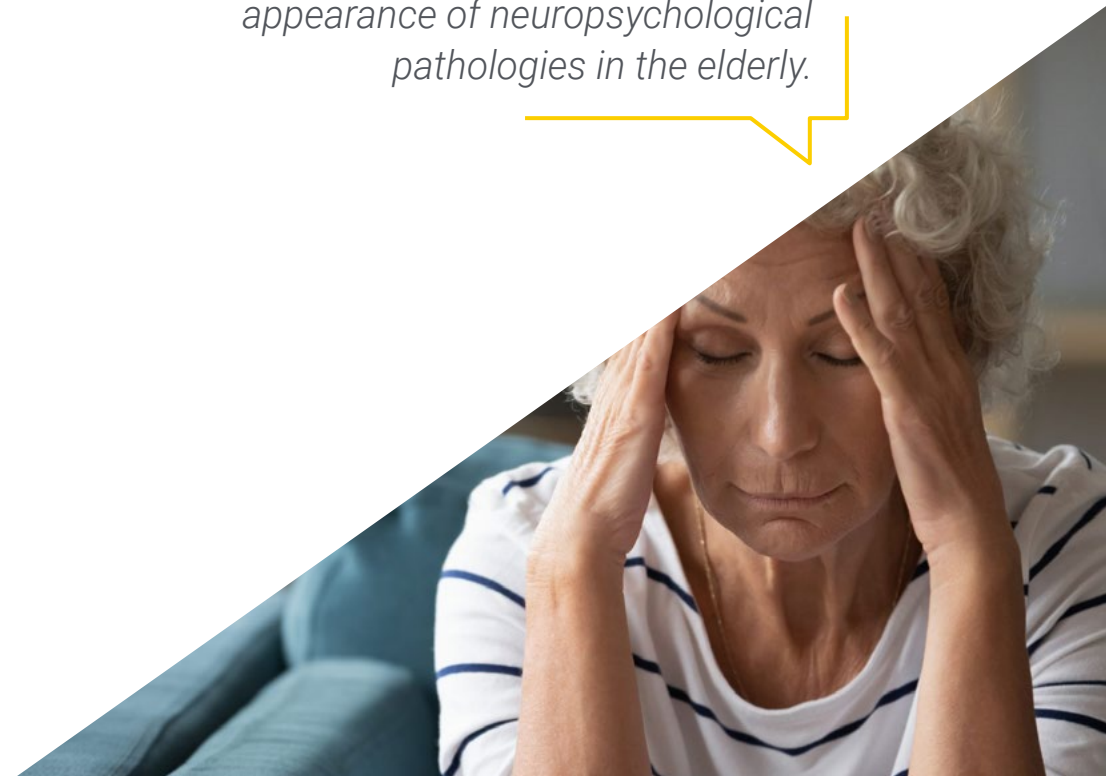
The program's teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

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 training programmed to train 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 student will be assisted by an innovative interactive video system created by renowned and experienced experts.

*Recent studies have revealed new reasons for the occurrence of stress in the elderly. Throughout this Postgraduate Diploma, we will reveal what they are.*

*Enroll in TECH and get up to date with the studies that highlight the relevance of the family in the appearance of neuropsychological pathologies in the elderly.*



# 02 Objectives

The Postgraduate Diploma in Neuropsychology of the Elderly focuses on the analysis of the most recent neuropsychological research. Seeking to provide the most up to date diagnostic and treatment tools. So that practitioners can implement them in their practice. In addition, a review of the role of the elderly in the family. For it is the main agent of socialization for the elderly.







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*The increase in life expectancy is accentuating certain pathologies derived from cognitive deterioration. Enroll in TECH to learn the latest palliative techniques”*



## General Objectives

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- ♦ Update knowledge in Neuropsychology through the latest studies and research
- ♦ Provide notions of Neuropsychology to professionals in specialties other than psychology
- ♦ Understanding the role of the family in the neuropsychological processes of the elderly
- ♦ Provide knowledge about the latest techniques of evaluation and psychodiagnosis

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*By taking this program you will share the same objective as TECH's teachers: to deepen your neuropsychological knowledge to the maximum"*







## Specific Objectives

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### Module 1. Physiological and Neuropsychological Changes in the Elderly

- ♦ Understand the changes that occur in the central nervous system during aging
- ♦ Define the influence of psychopathologies and neuropathologies on disorders of consciousness and perception in the elderly
- ♦ Understand affective behaviors in old age
- ♦ Understand the sleep disorders in old age

### Module 2. Aging and Family

- ♦ Define the concept of family
- ♦ Identify the processes and factors that regulate family life
- ♦ Know the advantages of having a functional family in old age
- ♦ Deepen in the support mechanisms that exist within the family
- ♦ Understand the changes that the 70's crisis can generate in the elderly
- ♦ Understand how the concept of family is evolving
- ♦ Understand the needs of the elderly in order to age successfully

### Module 3. Health and Disease Assessment in Old Age

- ♦ Conduct a physical, psychological and social evaluation
- ♦ Determine how psychological and social factors affect physical activity
- ♦ Observe the ability to solve problems

03

# Course Management

Neuropsychology is a discipline with a wide scope for research. For this reason, this Postgraduate Diploma has been staffed with physicians who have an extensive academic curriculum. In addition, they are currently involved in scientific studies in the field of neuropsychology. Being able to transfer to the students the advances that have taken place recently and those that are about to take place.







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*The extensive curriculum of TECH teachers will allow you to get answers to the most specific questions that may arise"*

## International Guest Director

Dr. Abby Altman is a renowned Psychologist specialized in Anthropology and Philosophy. Her line of work focuses on providing personalized therapeutic plans to patients with conditions such as Cognitive Impairment or Dementia in order to optimize their long-term quality of life.

Her passion for integrating behavioral health into primary care has led her to lead important programs focused on mental wellness. One example is iCBT, which promotes neurological resilience. In addition, during her career, she has held strategic roles such as the Director of Brain Support and Wellness Services at Brigham and Women's Hospital in Massachusetts.

Moreover, her leadership skills in healthcare settings have allowed her to contribute to the comprehensive training of specialists. In this way, she has contributed to physicians developing a multidisciplinary approach based on behavioral change.

It should be noted that her work has been recognized internationally on multiple occasions. One of his main contributions is the digital approach in the field of Geriatric Psychotherapy. In this way, she has received a variety of awards for her work in improving access to mental health and the use of motivational interviewing to promote behavior change in users.

Firmly committed to progress in this area, she has balanced this work with her role as a Clinical Researcher. As such, she has conducted multiple exhaustive analyses on topics such as loneliness, behavioral patterns or the adaptation of Cognitive-Behavioral Therapies.

She is also a member of the Motivational Interviewing Trainers Network. In this organization she participates in the design of educational programs and didactic materials of this technique for different contexts, from Primary Care to Addictions management.



## Dr. Altman, Abby

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- ♦ Co-director of Neurological Wellness at Brigham and Women's Hospital in Boston, United States
- ♦ Geropsychologist at Brigham and Women's Hospital
- ♦ Clinical Leader, iCBT program at Brigham and Women's Hospital
- ♦ Psychologist at Brigham and Women's Hospital
- ♦ Director of Psychology Education at Brigham and Women's Hospital
- ♦ Subject Matter Expert at Inflect Health Advisory
- ♦ Assistant Project Coordinator at Boston VA Research Institute
- ♦ Clinical Psychology Intern at Bay Pines VA Healthcare System
- ♦ Behavioral Specialist at Eldercare Assessment & Resources
- ♦ Ph.D. in Philosophy at Lehigh University

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*Thanks to TECH, you will be able to learn with the best professionals in the world”*

## Management



### Dr. Anasagasti, Aritz

- European specialist psychologist in Psychotherapy by the EFPA at the CEP health center in Bilbao
- President of Emotional Network
- Master in Time-Limited Psychotherapy and Health Psychology
- Psychogeriatrics Specialist
- Creator of the homebased intervention
- Member of the Basque Association of Gestalt Therapy
- Reciprocal Interaction Psychotherapist
- Specialist in neurodegenerative diseases from the Basque Country University
- Responsible for the computer development of Emotional Management and treatment in the elderly

## Coordination



### Dr. Aguado Romo, Roberto

- Psychologist specializing in Clinical Psychology
- European specialist psychologist in psychotherapy
- Managing Director of evaluation and psychotherapy centers in Madrid, Bilbao, and Talavera de la Reina
- Author of Time-Limited Psychotherapy
- Researcher at CerNet, Emotional Network, and European Institute for Time-Limited Psychotherapies



## Professors

### Dr. Fernández Sánchez, Angel

- ♦ European specialist psychologist in Psychotherapy from the EFPA
- ♦ Health Psychologist. Master's Degree in Clinical and Health Psychology
- ♦ Director of the Evaluation and Psychotherapy Center of Madrid
- ♦ Tutor in charge of the Psychodiagnosis and Psychological Intervention area of the CEP
- ♦ Author of the TEN. technique
- ♦ Head of studies on the Master's Degree in Time-Limited Psychotherapy and Health Psychology
- ♦ Specialist in Clinical Hypnosis and Relaxation

### Dr. Martínez Lorca, Manuela

- ♦ Doctorate in Psychology from the University of Castilla-La Mancha
- ♦ Health Psychologist. Lecturer in the Department of Psychology at the UCLM
- ♦ Master in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapies
- ♦ Specialist in Clinical Hypnosis and Relaxation

### Dr. Roldan, Lucia

- ♦ Health Psychologist
- ♦ Cognitive-behavioral intervention specialist
- ♦ Master in Time-Limited Psychotherapy and Health Psychology
- ♦ Expert in energy therapy intervention

### Dr. Otero, Verónica

- ♦ European specialist psychologist in Psychotherapy at the CEP health center in Bilbao
- ♦ Head of the children and youth area of intervention with PTL in the CEP of Bilbao
- ♦ Master in Time-Limited Psychotherapy and Health Psychology
- ♦ Child and Adolescent Specialist

### Dr. Zabala Baños, María Carmen

- ♦ Doctorate in Psychology from the Castilla la Mancha University
- ♦ Health Psychologist. Master's Degree in Clinical and Health Psychology
- ♦ Master in Time-Limited Psychotherapy and Health Psychology
- ♦ Psychosocial and Work Rehabilitation Specialist
- ♦ UCLM European specialist psychologist in psychotherapy. EFPA
- ♦ Specialist in Clinical Hypnosis and Relaxation

# 04

## Structure and Content

The Postgraduate Diploma in Neuropsychology of the Elderly begins by addressing the physiological and neuropsychological changes that occur in the elderly. Delving into a long list of psychopathologies associated with the passage of time. Next, we will detail the particularities of aging within the family nucleus. To conclude with the latest techniques in the study and psychodiagnosis of the elderly.





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*Knowing how an elderly person's brain works involves serious difficulties. However, TECH teachers will provide you with some tricks to help you identify the signs"*

## Module 1. Physiological and Neuropsychological Changes in the Elderly

- 1.1. Changes in the Central Nervous System
  - 1.1.1. Neuropsychological and Psychopathological Alterations in the Elderly
  - 1.1.2. Characteristics in Old Age Affecting Drug Intervention
- 1.2. Psychopathology and Neuropathology in Disorders of Consciousness and Perception in the Elderly
  - 1.2.1. Biopsychosocial Factors in Life Fatigue
  - 1.2.2. Daily Life Stress in the Elderly
  - 1.2.3. Attention, Learning and Memory
  - 1.2.4. Helplessness
  - 1.2.5. Isolation
  - 1.2.6. Loneliness
  - 1.2.7. Boredom
  - 1.2.8. Neglect
  - 1.2.9. Suicide in Old Age
- 1.3. Affective Disorders in the Elderly
- 1.4. Sleep Disorders in Old Age

## Module 2. Aging and Family

- 2.1. What Is Family?
  - 2.1.1. Family Life Cycle
  - 2.1.2. Family Sociability
  - 2.1.3. New Intergenerational Conflicts
  - 2.1.4. Core Family
  - 2.1.5. Modern Family
  - 2.1.6. Social Organization of Sexual Relationships
- 2.2. Regulatory Processes of Family Life
  - 2.2.1. Family Temperament
  - 2.2.2. Family Identity

- 2.3. The Process of Family Development and Growth
  - 2.3.1. Sandwich Generation
  - 2.3.2. Tupac Amaru Syndrome
  - 2.3.3. Family Aging
- 2.4. Functional Family in Old Age
  - 2.4.1. Support for Demands and Needs
  - 2.4.2. Parentability
  - 2.4.3. Subsidiary Liability
- 2.5. Stability of Change and Authority Placement
- 2.6. Aging Within the Family
  - 2.6.1. Family and the Importance of Contribution and Productivity
  - 2.6.2. Psychosocial Aspects of the Family
  - 2.6.3. Structure
  - 2.6.4. Mechanisms of action
  - 2.6.5. The Family as a Social and Health Network in Old Age
  - 2.6.6. Current Role of Old Age in 21st Century Families
- 2.7. The Crisis of the 70s
  - 2.7.1. Retirement
  - 2.7.2. Dependence
  - 2.7.3. Depression
- 2.8. The Family of Today and the Family of the Future
- 2.9. Quality of Life, Family and Changes That Occur in Old
  - 2.9.1. Society and Aging
  - 2.9.2. How Does Our Body Transform as We Age?
  - 2.9.3. Psychology and Old Age. Metapsychology
- 2.10. Aging in Satisfaction
- 2.11. Realization of Basic Needs in Old Age



### Module 3. Health and Disease Assessment in the Old Age

- 3.1. Physical and Mental Health in Aging
- 3.2. Physical Evaluation
  - 3.2.1. Medical History
  - 3.2.2. General Physical Evaluation
  - 3.2.3. Analysis
  - 3.2.4. Neurological Examination
  - 3.2.5. Other Examinations
- 3.3. Psychical Assessment
  - 3.3.1. Medical History
  - 3.3.2. Life History
  - 3.3.3. Cognitive Assessment
  - 3.3.4. Memory and Attention Assessment
  - 3.3.5. Behavioral Assessment
  - 3.3.6. Evaluation of the Most Frequent Psychological Disorders in the Elderly
- 3.4. Social Assessment
  - 3.4.1. Shared Social Network
  - 3.4.2. Belonging to Groups
  - 3.4.3. How Many Friends Do They Have at the Moment?
  - 3.4.4. How Many Friends Did They Have Before?
  - 3.4.5. Financial Capacity
  - 3.4.6. Recent and Old Relationships
  - 3.4.7. Social Involvement
- 3.5. Physical Aging
- 3.6. Physical Activity
  - 3.6.1. Movement Autonomy
  - 3.6.2. Ability to Travel or Move Around
  - 3.6.3. Motor Coordination
  - 3.6.4. Level of Tiredness and Fatigue
  - 3.6.5. Daily Life Activities
- 3.7. Mental Activity
  - 3.7.1. Ability to Read
  - 3.7.2. Ability to Have a Get Together
  - 3.7.3. Flexibility/Rigidity in Reasoning
  - 3.7.4. Creativity in Old Age
- 3.8. Problem Solving Activity
  - 3.8.1. Ability to Hold a Conversation
  - 3.8.2. Leave the Monologue
  - 3.8.3. Empathize
  - 3.8.4. Conflict Resolution
  - 3.8.5. Allow Win-Win Relationships



*A topic has been reserved for the implementation of activities that will help assess the degree of dependency of the elderly"*

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 Diploma in Neuropsychology of the Elderly guarantees students, in addition to the most rigorous and up to date education, access to a Postgraduate Diploma qualification issued by TECH Global University.





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

This program will allow you to obtain your **Postgraduate Diploma in Neuropsychology of the Elderly** 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.

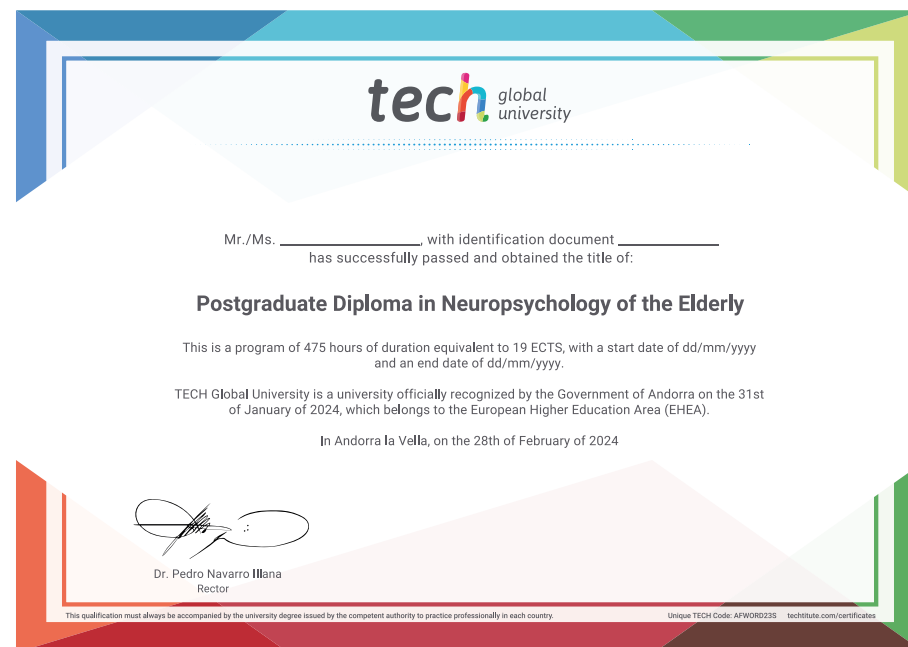
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Neuropsychology of the Elderly**

Modality: **online**

Duration: **6 months**

Accreditation: **19 ECTS**



\*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  
community commitment  
personalized service innovation  
knowledge present quality  
development language  
virtual classroom



**Postgraduate Diploma**  
Neuropsychology  
of the Elderly

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 19 ECTS
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Diploma

## Neuropsychology of the Elderly

