

# Postgraduate Certificate Neuropsychology of Attention and Memory





## Postgraduate Certificate Neuropsychology of Attention and Memory

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/in/psychology/postgraduate-certificate/neuropsychology-attention-memory](http://www.techtitute.com/in/psychology/postgraduate-certificate/neuropsychology-attention-memory)

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# 01

# Introduction

The program is aimed at consolidating the knowledge and developing the techniques used in the field of research in psychology, in this case related to the Neuropsychology of Attention and Memory. Make the most of the opportunity and become a researcher with solid and secure foundations through this academic program and the latest educational technology 100% online.





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*The Postgraduate Certificate in Neuropsychology of Attention and Memory will help you update your knowledge in research and qualify you as a practicing professional”*

The Postgraduate Certificate in Neuropsychology of Attention and Memory has been created with the aim of understanding that the development and improvement of research in the field of psychology involves focusing not only on the content to be developed, but also on the different methodologies and techniques used to achieve the objectives set more efficiently. It aims to respond to the whole context that surrounds both the research itself and the field of knowledge in which the research is framed.

The program focuses on the study of neuropsychology and the relationship between the brain and behavior, as well as the physiology and pharmacology of attention and memory. It also delves into the symptoms, syndromes and disorders of attention and memory, with special emphasis on the relationships between these two abilities and psychological processes. Enhance your skills thanks to this program that will allow you to work at the highest level in research in the field of psychology.

Through this program, you will be able to incorporate the competencies associated with the researcher in psychology through a broad, objective and experiential description of the elements to be applied during your practice. From the most general to the most specific and transversal, analyzing all the stages that make up a piece of research. Research is a fundamental section in any field, since all the existing theoretical content is based on it.

This **Postgraduate Certificate in Neuropsychology of Attention and Memory** 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 Psychology and Scientific Research
- ♦ The graphic, schematic, and practical contents with which they are created provide scientific and practical information on the disciplines that are essential for carrying out research
- ♦ News and innovations on research in the different fields of psychology
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ Algorithm-based interactive learning system for decision-making in the situations that are presented to the student
- ♦ Special emphasis on research 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



*Access the latest methodologies in applied psychology, master the writing of articles or delve into data analysis. Become a research professional in psychology"*

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*This Postgraduate Certificate aims to provide a methodological renewal taking into account the demands of current research and offering the most innovative strategies and tools”*

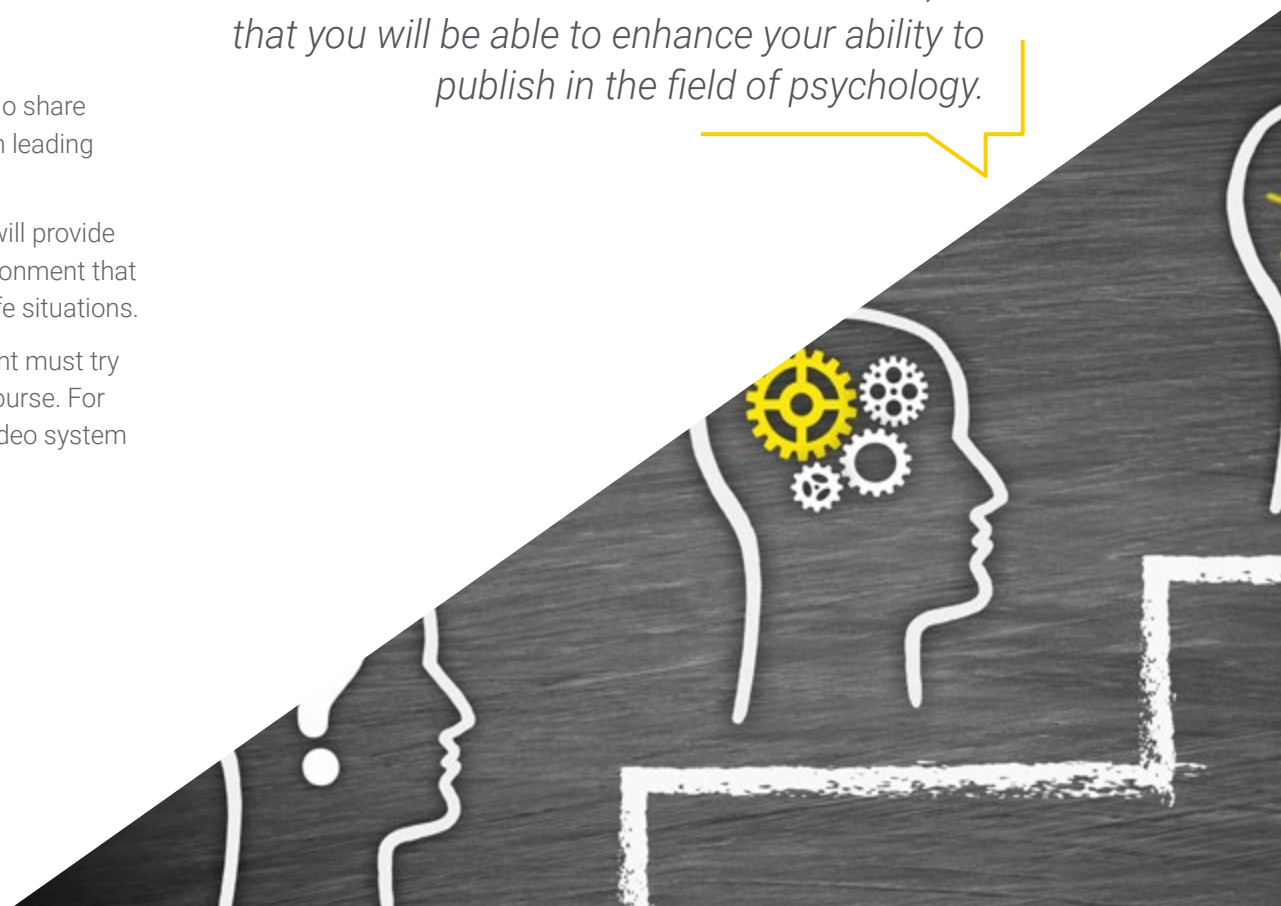
It includes a very broad teaching staff made up of experts in psychology, who share their work experience in this program, as well as recognized specialists from leading communities and prestigious universities.

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, where the student must try to solve the different professional practice situations that arise during the course. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced research experts.

*The Postgraduate Certificate in Neuropsychology of Attention and Memory will allow you to obtain specialized knowledge in active methodologies.*

*With this Postgraduate Certificate you will delve into social behavior and education, so that you will be able to enhance your ability to publish in the field of psychology.*



# 02

# Objectives

This Postgraduate Certificate is aimed at the researchers in the field of Psychology, so that they can acquire the necessary tools to develop in the specific field, knowing the latest trends and delving into those issues that make up the forefront of this area of knowledge. Researchers will only be able to carry out their objectives successfully if they are adequately prepared.





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*The Postgraduate Certificate in Neuropsychology of Attention and Memory will broaden your horizons as a psychologist and allow you to grow personally and professionally”*



## General Objective

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- Learn the necessary competences to develop a research activity, as psychologists, that will allow them to raise their methodological and performance level in the field of research in psychology, using the appropriate tools within the research context, which will allow them to grow personally and professionally

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*Make the most of the opportunity and acquire the tools to enhance your research skills”*





## Specific Objectives

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- ♦ Know and understand the neuropsychological functioning of attention processes and human memory
- ♦ Know and discriminate adequately between the different memory systems
- ♦ Be able to analyze and interpret a research report related to the neuropsychology of attention and memory
- ♦ Design an experimental task neuropsychology for the neuropsychological assessment of attention and memory
- ♦ Design and implement a treatment or intervention program for the improvement of Attention and Memory
- ♦ Know the analysis necessary for the neuropsychological assessment of attention and memory

03

# Structure and Content

The structure of the contents has been designed by a team of professionals in psychology research, aware of the relevance of updating in order to delve deeper into the field of knowledge and produce publications of academic quality.





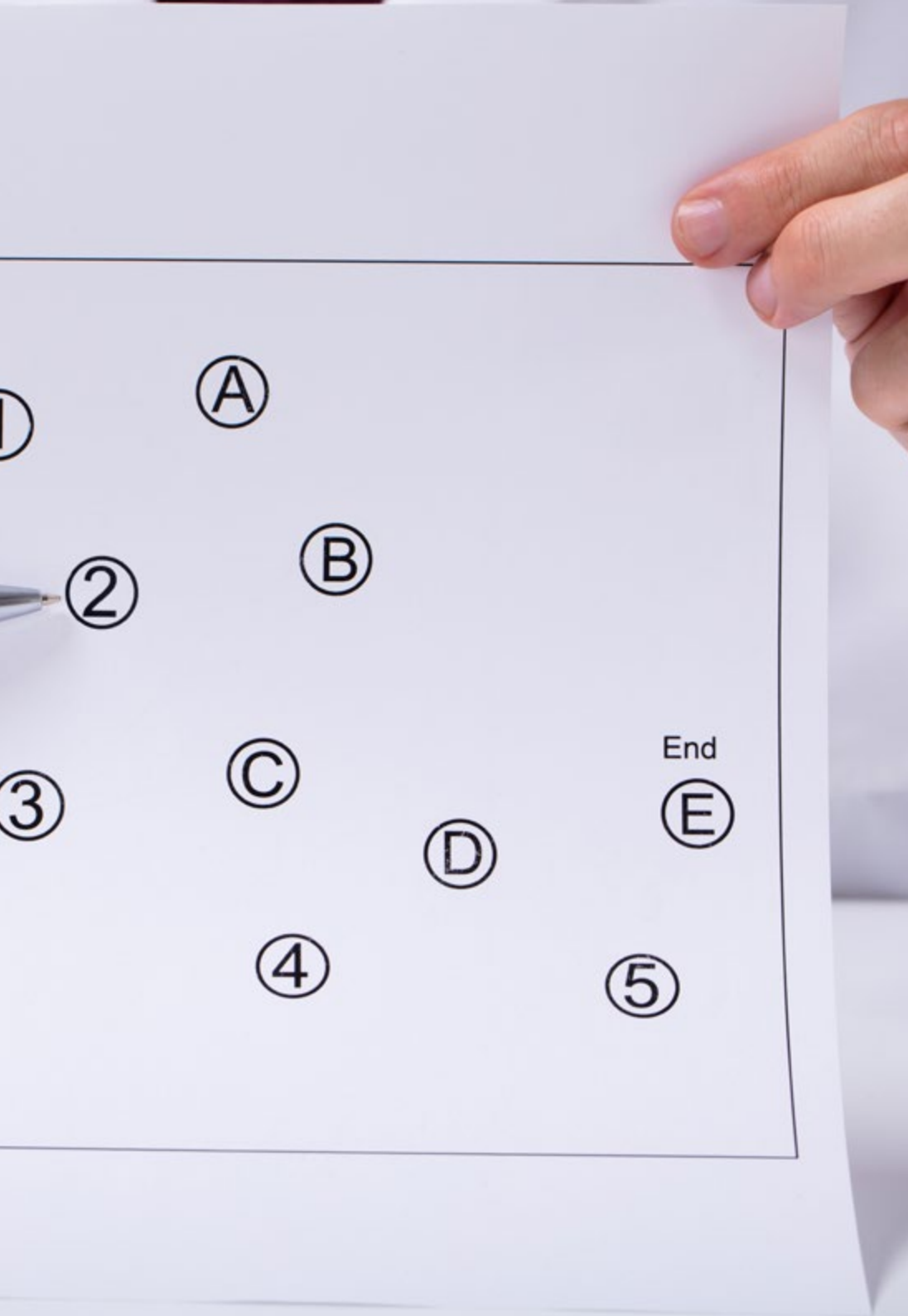
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*The Postgraduate Certificate in Neuropsychology of Attention and Memory contains the most complete and up-to-date scientific program on the market"*

## Module 1. Neuropsychology of Attention and Memory

- 1.1. Neuropsychology and Brain-Behavior Relationships
  - 1.1.1. What is Neuropsychology?
  - 1.1.2. Basic Concepts
  - 1.1.3. Definitions and Approaches to Neuropsychology
- 1.2. Physiology and Pharmacology of Attention and Memory
  - 1.2.1. Psychobiology of Attentional Processes
  - 1.2.2. Psychobiology of Memory
  - 1.2.3. Psychopharmacology of the Attention Processes
  - 1.2.4. Psychopharmacology of Memory
- 1.3. Advances in the Neuropsychological Assessment of Attentional Processes
  - 1.3.1. Traditional Assessment of Attention
  - 1.3.2. New Techniques for Measuring Attentional Processes
  - 1.3.3. Ecological Validity of the Measures
  - 1.3.4. Identification of Possible Biases in the Evaluation
- 1.4. Advances in the Neuropsychological Evaluation of Memory
  - 1.4.1. Traditional Assessment of Human Memory
  - 1.4.2. New Techniques for Measuring Memory-Related Processes
  - 1.4.3. Ecological Validity of the Measures
  - 1.4.4. Identification of Possible Biases in the Evaluation
- 1.5. Symptoms, Syndromes, and Attention Disorders
  - 1.5.1. Possible Deficits in Attentional Processes
  - 1.5.2. Attention Problems in Relation to Non-Attentional Disorders
  - 1.5.3. Attention Deficit Hyperactivity Disorder
  - 1.5.4. Problems with ADHD Assessment and Treatment
- 1.6. Neuropsychological Foundations of Human Memory
  - 1.6.1. Memory Systems Identified in Humans
  - 1.6.2. Declarative vs. Non-Declarative
  - 1.6.3. Procedural Memory
  - 1.6.4. Semantic Memory
  - 1.6.5. Episodic and Autobiographical Memory





- 1.7. Symptoms, Syndromes and Memory Disorders
  - 1.7.1. Origins and Causes of Memory Problems
  - 1.7.2. Anterograde Amnesia
  - 1.7.3. Retrograde Amnesia
  - 1.7.4. Amnesia of the Source
  - 1.7.5. Psychogenic Amnesia
  - 1.7.6. Childhood Amnesia: Possible Causes
- 1.8. Neuropsychology of Working Memory
  - 1.8.1. From Short-Term Memory to Working Memory
  - 1.8.2. The Phonological Loop
  - 1.8.3. The Visuospatial Agenda
  - 1.8.4. The Central Executive as a Distributor of Resources
  - 1.8.5. Convergence of Information in the System: The Episodic Buffer
- 1.9. Neuropsychology of Executive Functions
  - 1.9.1. Executive Functions: Concepts and Definitions
  - 1.9.2. Approaches to the Study of Executive Functions
  - 1.9.3. Explanatory Models of Executive Functions
  - 1.9.4. Relationships of Executive Functions with Psychopathology
- 1.10. Relationships of Attention and Memory with Other Psychological Processes
  - 1.10.1. Attention as the Basis of Other Basic Cognitive Processes
  - 1.10.2. Memory as the Basis of Other Basic Cognitive Processes
  - 1.10.3. Relations of Attention with Other Higher Psychological Processes
  - 1.10.4. Relations of Memory with Other Higher Psychological Processes



*Discover the importance of the professional's orientation towards research and the implications of effective accompaniment in this field"*

04

# 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 the psychologist experiences 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 psychologist'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. Psychologists who follow this method not only master the assimilation of concepts, but also develop their mental capacity by means of exercises to evaluate real situations and apply their knowledge.
2. Learning is solidly translated into practical skills that allow the psychologist to better integrate knowledge into clinical practice.
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.

Our 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, which is a real revolution compared to the simple study and analysis of cases.

*The psychologist will learn through real cases and by solving 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).

This methodology has trained more than 150,000 psychologists with unprecedented success in all clinical specialties. 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 training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for 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 our 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.



#### Latest Techniques and Procedures on Video

TECH introduces students to the latest techniques, to the latest educational advances, to the forefront of current psychology. 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 suggesting that observing third-party experts can be useful.  
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.



05

# Certificate

The Postgraduate Certificate in Neuropsychology of Attention and Memory guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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

The **Postgraduate Certificate in Neuropsychology of Attention and Memory** contains the most complete and up-to-date program the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained through the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Neuropsychology of Attention and Memory**

Official N° of Hours: **150 h.**



\*Apostille Convention. In the event that the student wishes to have their paper certificate issued, with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

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



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Postgraduate Certificate  
Neuropsychology  
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