

# Postgraduate Certificate

## Introduction to Neuropsychology



## Postgraduate Certificate

### Introduction to Neuropsychology

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

Website: [www.techtute.com/in/psychology/postgraduate-certificate/introduction-neuropsychology](http://www.techtute.com/in/psychology/postgraduate-certificate/introduction-neuropsychology)

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# 01

# Introduction

Understanding the relationships that occur between the brain and behavior, both in healthy patients and in those who are suffering from some type of mental pathology is the main objective of Neuropsychology. To this end, the professional in this field must know in detail the latest scientific evidence related to the neural basis of complex mental processes, in order to be able to handle their clinical cases with the speed and specificity they require. In order to know all the advances that have been carried out in this branch of Psychology, TECH Technological University has developed this complete program. It is a 100% online program that includes 150 hours of the best content, thanks to which the professional will be able to catch up in a comfortable, comprehensive way and from anywhere.





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*The perfect program to review the basics of Neuropsychology and update your knowledge to the latest scientific evidence that has been developed in this field of Psychology”*

The study of the neuroanatomical bases in relation to mental processes such as attention, memory, language, perception, praxias, executive functions and emotion is the main objective of Neuropsychology, so that, thanks to this science, it is possible to know the higher mental processes that take place between the brain and the behaviors of healthy patients or those who have suffered some kind of brain damage. That is why the role of the professional in this area is very important in the processes of rehabilitation and assessment of neurological diseases, such as tumors, dementia, neurodegenerative pathologies or learning disabilities, among others.

For this reason, and with the aim that the specialist can be up to date in a comprehensive and complete way on all the developments that have occurred in this field, TECH and its team of experts have developed the Postgraduate Certificate in Introduction to Neuropsychology. This is an intensive program, distributed over 6 weeks, which includes 150 hours of the best information. Thanks to this course, the professional will be able to delve into the basics of this science, reviewing the most important authors and works focusing on the systems that compose it. In addition, they will also be able to delve into the functional and structural anatomy, as well as the most innovative neuroimaging techniques that are obtaining the best results.

To accomplish this task, you will have the most exhaustive syllabus and hours of additional and high-quality material including: detailed videos, images, research articles, complementary readings and much more. Everything you need to delve into those concepts you consider most relevant for your professional performance. All this summarized in a convenient and accessible 100% online format with which you can enjoy this educational experience from wherever you want and with a schedule fully adapted to your availability.

This **Postgraduate Certificate in Introduction to Neuropsychology** contains the most complete and up-to-date program on the market. The most important features include:

- ♦ The development of practical cases presented by experts in Psychology and Immunology
- ♦ 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
- ♦ 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



*A unique opportunity to reinforce your knowledge on cellular and molecular neurobiology from wherever you want and with a schedule fully adapted to your availability"*

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*Thanks to its convenient 100% online format, you will be able to access the virtual classroom 24 hours a day and from any device with an internet connection, be it a PC, tablet or mobile phone”*

The program's teaching staff includes professionals from the sector who contribute their work experience to this educational 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 education programmed to learn 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 throughout the program. For this purpose, students will be assisted by an innovative interactive video system developed by renowned experts.

*In less than 150 hours, you will have gained detailed knowledge of the latest developments related to the ontogeny and phylogeny of the Central Nervous System.*

*You will be able to delve into the first approaches to Neuropsychology through an intensive and dynamic syllabus designed by experts in the field.*



# 02

# Objectives

The importance of the role played by the Neuroscience professional in the diagnosis and treatment of patients with different brain pathologies, is what has led TECH Technological University to create a program focused exclusively on its update. For this reason, the objective of this Postgraduate Certificate is to provide you with all the information that will allow you to get up to date on the latest techniques and clinical management strategies, while reviewing the most important concepts of Neuropsychology.







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*A program created exclusively for professionals like you and designed to enable you to exceed your highest goals in less than 6 weeks"*



## General Objectives

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- ♦ Develop in the graduate an exhaustive knowledge of Neuropsychology, from its origin to the most recent updates
- ♦ Know in detail the latest advances related to the tools and treatments in psychology that are having the best results

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*If your educational objectives include acquiring a broad and up-to-date knowledge of the neurobiology of systems, their structure and development, TECH guarantees that you will achieve it with this Postgraduate Certificate"*





## Specific Objectives

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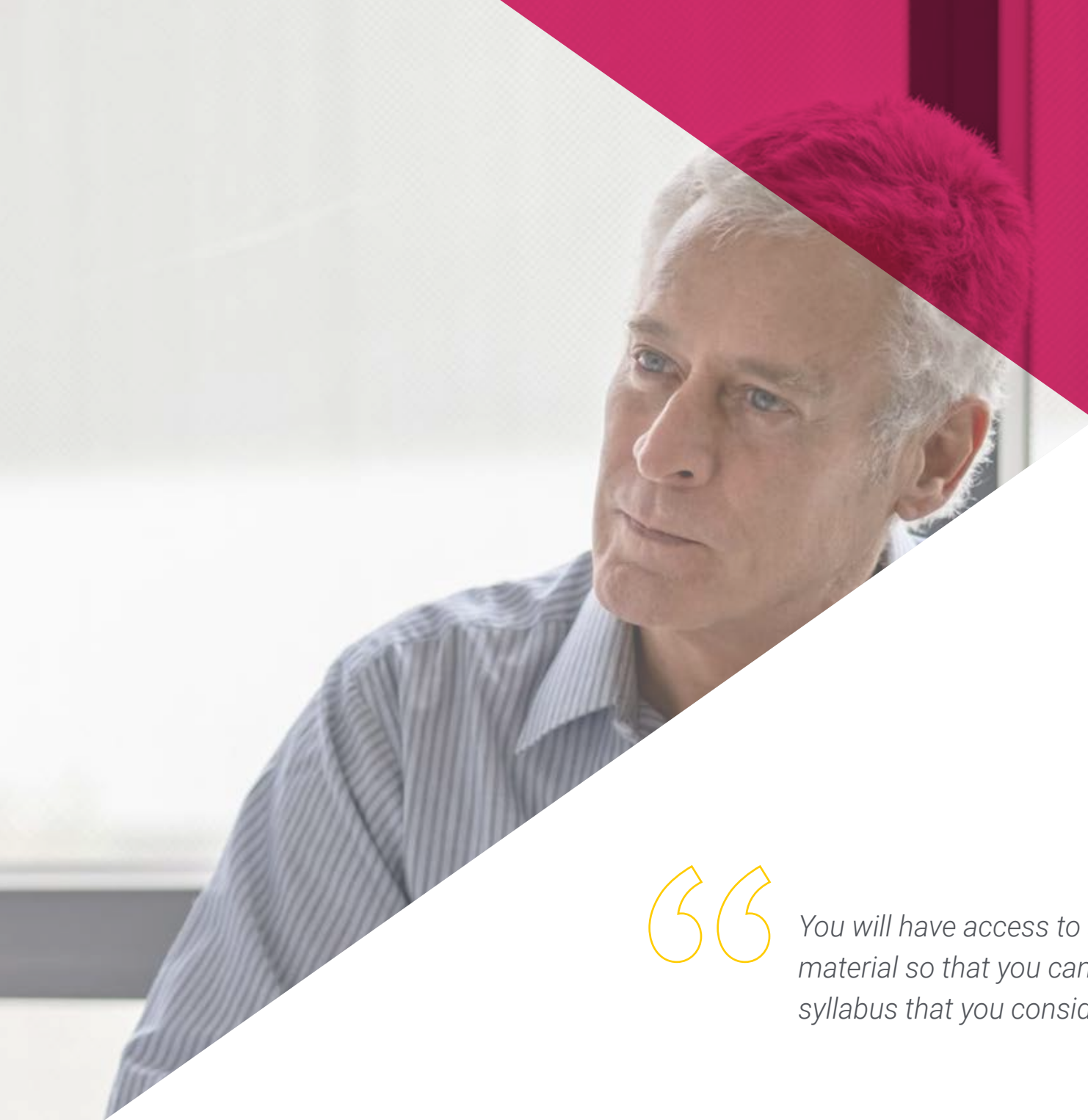
- ♦ Know the beginnings of neuropsychology and its first studies
- ♦ Learn about the basics of Neurobiology
- ♦ Know and contextualize the bases of the development of the central nervous system

# 03

## Structure and Content

The design of the structure and content of this 100% online program has been the responsibility of the teaching team, which, in addition to selecting the information in the syllabus, has worked on the search for and creation of additional material of great quality and variety: detailed videos, dynamic summaries of each unit, research articles, complementary readings, clinical cases for practice, etc. All this summarized in a 100% online format, accessible from any device with internet connection, with which the specialist will be able to take the educational experience in a comfortable way and without worrying about schedules or attending classes.





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*You will have access to a variety of high-quality additional material so that you can delve into the aspects of the syllabus that you consider most important or interesting”*

## Module 1. Introduction to Neuropsychology

- 1.1. Introduction to Neuropsychology
  - 1.1.1. Basis and Origins of Neuropsychology
  - 1.1.2. First Approaches to the Discipline
- 1.2. First Approaches to the Neuropsychology
  - 1.2.1. First Works Within Neuropsychology
  - 1.2.2. Most Relevant Authors and Works
- 1.3. Ontogeny and Phylogeny of the CNS
  - 1.3.1. Concept of Ontogeny and Phylogeny
  - 1.3.2. Ontogeny and Phylogeny Within the CNS
- 1.4. Cellular and Molecular Neurobiology
  - 1.4.1. Introduction to Neurobiology
  - 1.4.2. Cellular and Molecular Neurobiology
- 1.5. Neurobiology of Systems
  - 1.5.1. Concepts of Systems
  - 1.5.2. Structures and Development
- 1.6. Embryology of the Nervous System
  - 1.6.1. Principles of Embryology of the Nervous System
  - 1.6.2. Phases of CNS Embryology
- 1.7. Introduction to Structural Anatomy CNS
  - 1.7.1. Introduction to Structural Anatomy
  - 1.7.2. Structural Development
- 1.8. Introduction to Functional Anatomy
  - 1.8.1. What is Function Anatomy?
  - 1.8.2. Most Important Functions
- 1.9. Neuroimaging Techniques
  - 1.9.1. Concept of Neuroimaging
  - 1.9.2. Most Commonly Used Techniques
  - 1.9.3. Advantages and Disadvantages





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*A perfect opportunity to get up to date on the advantages and disadvantages of the most widely used neuroimaging techniques that are currently showing the best results”*

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.





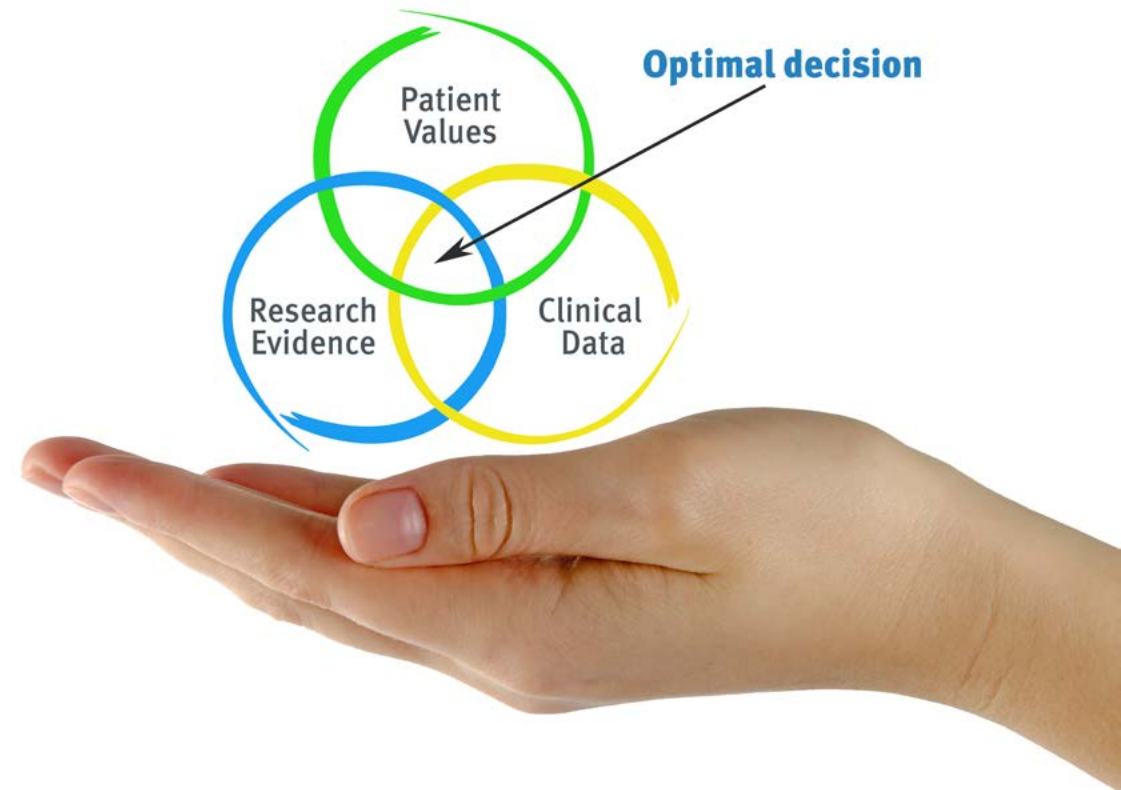
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

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







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

This **Postgraduate Certificate in Introduction to Neuropsychology** contains the most complete and up-to-date program on 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 in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Introduction to Neuropsychology**

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  
classroom



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