

# Postgraduate Certificate Neuropsychology in the Educational Process





## Postgraduate Certificate

### Neuropsychology in the Educational Process

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH Technological University**

**6 ECTS Credits**

Official N° of hours: **150 h.**

Website: [www.techtute.com/education/postgraduate-certificate/neuropsychology-educational-process](http://www.techtute.com/education/postgraduate-certificate/neuropsychology-educational-process)

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01

# Introduction

Neuropsychology has recently become the support of many other disciplines and sciences. Teaching is one of them. With the synergy of these two disciplines, a different approach to the different situations that occur in the classroom is achieved. In this scenario, neurosciences become a highly valuable tool for advancing in the planning and implementation of effective educational intervention strategies in certain contexts.





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*The educational vanguard with the support of neurosciences applied to teaching, in a Postgraduate Certificate of high pedagogical and technological level"*

This Postgraduate Certificate in Neuropsychology in the Educational Process offers a broad and complete vision of the complex world of neurosciences from an applied perspective. Starting from the biological bases and the techniques of Neuro-Imaging, the different practical approaches existing in this discipline are collected.

In this Postgraduate Certificate, the teaching professional will learn to understand and interpret neurosciences in order to apply them to their teaching experience.

During the training, two types of neuropsychological programs will be dealt with: the eminently biological ones focused on the neuronal bases and genetics of the brain, and the exclusively clinical programs, where the problems associated with pathologies affecting the brain and neurodegenerative diseases are studied in depth. This double vision allows a better understanding of the functioning of neurosciences from different fields, so that the professional can have different options for its application.

This Postgraduate Certificate addresses the new branches of neuroscience that are currently under development, both theoretical and applied. Neuro-Marketing and Neuro-Education and introduces the new branches that in a few years will be demanded by different sectors, such as Neuro-Economics or Neuro-Leadership. These insurgent areas have not yet been included in the usual educational programs, which makes this Postgraduate Certificate a unique specialization opportunity that will prepare you in a very exclusive way.

Students will have access to the latest advances in neurosciences with the most complete theoretical contents and through a developed learning system supported by practice. Thus, at the end of their specialization, they will be able to apply everything they have learned in their work.

A qualitative advantage over other professionals in the sector that will make it easier for teaching professionals to enter or be promoted in the job market, with extensive theoretical and practical knowledge that will improve their skills in the performance of their position.

This **Postgraduate Certificate in Neuropsychology in the Educational Process** is the most comprehensive and up-to-date educational program on the market. The most important features include:

- ♦ More than 75 practical cases presented by experts in neurosciences for teachers. 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.
- ♦ New developments in Neurosciences for teachers
- ♦ Practical exercises where the self-evaluation process can be carried out to improve learning.
- ♦ With special emphasis on innovative methodologies in Neurosciences for teachers
- ♦ All of this will be complemented by 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 study program focused on the achievement, in a short period of time, of the most complete pedagogical contents"*

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*This Postgraduate Certificate may be the best investment you can make in the selection of an updated program for two reasons: in addition to updating your knowledge of Neuropsychology. in the Educational Process, you will obtain a certificate from TECH-Technological University”*

The program is taught by professionals with extensive experience in the field of Neurosciences for teachers, as well as recognized specialists in this area, belonging to reference societies and prestigious universities.

Thanks to its multimedia content, developed with the latest educational technology, the professional will enjoy situated and contextual learning. In other words, a simulated environment that will provide immersive learning, programmed to train you for real situations.

The design of this program is based on Problem-Based Learning, through which the student must try to solve different professional practice situations. This will be done with the help of an innovative interactive video system, one of the most advanced in the educational market.

*Change the way you work and face the day to day, with a high level Postgraduate Certificate that will open new paths to develop your profession.*

*Through the ABP learning system, this program will provide you with the experience and skills necessary for the use of Neuropsychology in the Educational Process.*



# 02

# Objectives

This Postgraduate Certificate was created to specialization teachers in the application of neurosciences in the development of their work in the classroom, incorporating new forms of approach to their task as training. A high-level qualitative leap that will allow you to be at the forefront of education.





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*The most specialized training in the teaching sector. A qualitative leap that will boost your resume”*



## General Objectives

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- ♦ Update the knowledge on neurosciences in their different fields of application, from the clinical, educational or social area
- ♦ Increase the quality of the teaching professional's praxis in their performance
- ♦ Introduce the teacher to the vast world of neurosciences from a practical perspective
- ♦ Know the different disciplines involved in the study of the brain in relation to human behavior and its possibilities
- ♦ Learn to use the tools used in neuroscience research and practice
- ♦ Develop skills and abilities in emotional development in the classroom
- ♦ Direct the student towards continuing training and research





## Specific Objectives

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- ♦ Learn the formation of the nervous system
- ♦ Understand the types of neurons
- ♦ Identify brain hemispheres and lobes
- ♦ Differentiate between localizationism and brain functionalism.
- ♦ Discover the undifferentiated neurons
- ♦ Understand programmed neural death
- ♦ Recognise interneuronal electrical communication
- ♦ Determine the role of myelin in neurons
- ♦ Understand interneuronal chemical communication
- ♦ Classify neurohormones and their functions
- ♦ Differentiate between age and neuronal plasticity
- ♦ Discover neuronal development
- ♦ Learn the peculiarities of the human brain
- ♦ Unravel the left brain
- ♦ Explore the white matter
- ♦ Recognize gender differences at the neural level
- ♦ Classify hemispheric functions
- ♦ Discover the new localizationism
- ♦ Understand invasive techniques
- ♦ Recognize non-invasive techniques
- ♦ Discover the Papez circuit
- ♦ Explore the limbic brain
- ♦ Analyze the amygdala and positive emotion
- ♦ Understand the function of the amygdala and negative emotion
- ♦ Recognize the intensity of emotion
- ♦ Determine the affective value of emotion



*A unique specialization course that will enable you to acquire superior training for development in this field"*

# 03

## Course Management

In this Postgraduate Certificate, you will have the support of a highly qualified faculty, in a multidisciplinary approach, with leading experts in the field of neurosciences at the service of the best online training. Throughout the six months of specialization and through a high-tech communication system, you will be able to access tutoring and guidance from your faculty at all times. With the confidence of counting on the best.



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*The highest quality online specialization in the educational market, with the experience and prestige of the most qualified professors in the field"*

## Management



### Dr. Jiménez Romero, Yolanda

- ♦ Educational psychologist
- ♦ Degree in Primary Education with English
- ♦ Educational psychologist
- ♦ Master's Degree in Neuropsychology of High Abilities
- ♦ Master's Degree in Emotional Intelligence
- ♦ Neurolinguistic Programming Practitioner
- ♦ Specialized Teacher in High Intellectual Ability
- ♦ Co-director, Author and Teacher in Different University Educational Projects.



### Dr. De la Serna, Juan Moisés

- ♦ PhD in Psychology, Professional Master's Degree in Neurosciences and Behavioral Biology
- ♦ Director of the Open Chair of Psychology and Neurosciences and science communicator

## Professors

### Dr. Pellicer Royo, Irene

- ♦ Physical Education Teacher at Fundació Jesuïtes Educational
- ♦ Degree in Sciences of Physical Activity and Sport, University of Lleida
- ♦ Master's Degree in Medical Sciences applied to Physical Activity and Sport, University of Lleida
- ♦ Master's Degree in Emotional Education and Well-being, University of Barcelona
- ♦ Postgraduate in Neuroeducation

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*The most avant-garde teaching resources of the moment, backed by the experience and good results of thousands of teachers who have already graduated with us”*

04

# Structure and Content

The structure of the contents has been designed by a team of professionals from the best educational centers and universities in Spain. Through the incorporation, as a priority, of new information and communication technologies, this Postgraduate Certificate is an example of innovative training, of total and permanent relevance.

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*The contents of this program have been selected for the acquisition of the necessary knowledge to implement the advantages of neuropsychology in the classroom at the end of the Postgraduate Certificate"*

## Module 1. Neuropsychology

- 1.1. Foundations of Neuropsychology
  - 1.1.1. Defining Neuropsychology
  - 1.1.2. Psychological Processes.
  - 1.1.3. Neuropsychological Assessment
- 1.2. Sensation and Perception
  - 1.2.1. Defining Sensation
  - 1.2.2. Neurological Foundations of Sensation
  - 1.2.3. Evaluation of Sensation
  - 1.2.4. Defining Perception
  - 1.2.5. Neurological Foundations of Perception
  - 1.2.6. Evaluation of Perception
- 1.3. Attention.
  - 1.3.1. Defining Attention
  - 1.3.2. Neurological Foundations of Attention
  - 1.3.3. Evaluation of Attention
  - 1.3.4. Alterations of Attention
- 1.4. Memory.
  - 1.4.1. Defining Memory
  - 1.4.2. Neurological Foundations of Memory
  - 1.4.3. Evaluation of Memory
  - 1.4.4. Alterations of Memory
- 1.5. Emotion
  - 1.5.1. Defining Emotion
  - 1.5.2. Neurological Foundations of Emotion
  - 1.5.3. Evaluation of Emotion
  - 1.5.4. Alterations of Emotion
- 1.6. Language
  - 1.6.1. Defining Language
  - 1.6.2. Neurological Foundations of Language
  - 1.6.3. Language Evaluation
  - 1.6.4. Alterations of Language



- 1.7. Executive Functions.
  - 1.7.1. Defining Executive Functions
  - 1.7.2. Neurological Foundations of Executive Functions
  - 1.7.3. Evaluation of Executive Functions
  - 1.7.4. Alterations of Executive Functions
- 1.8. Motivation
  - 1.8.1. Defining Motivation
  - 1.8.2. Neurological Foundations of Motivation
  - 1.8.3. Evaluation of Motivation
  - 1.8.4. Alterations of Motivation
- 1.9. Metacognition.
  - 1.9.1. Defining Metacognition
  - 1.9.2. Neurological Foundations of Metacognition
  - 1.9.3. Evaluation of Metacognition
  - 1.9.4. Alterations of Metacognition
- 1.10. Intelligence.
  - 1.10.1. Defining Intelligence
  - 1.10.2. Neurological Foundations of Intelligence
  - 1.10.3. Evaluation of intelligence
  - 1.10.4. Alterations of Intelligence



*A unique, key, and decisive training experience to boost your professional development and make the definitive leap”*

05

# Methodology

This training program provides you with 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.



A hand is shown in the foreground, pointing towards a chalkboard in the background. The chalkboard has some mathematical symbols written on it, including a large 'A' and a 'Y'. The background is split into two diagonal sections: a light blue one on the left and a dark red one on the right. The hand is positioned in the lower-left quadrant, with the index finger pointing towards the center of the page.

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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 Education School we use the Case Method

In a given situation, what should a professional do? Throughout the program students will be presented with multiple simulated cases based on real situations, where they will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method.

*With TECH, educators can experience a learning methodology that is shaking the foundations of traditional universities around the world.*



*It is a technique that develops critical skills and prepares educators to make decisions, defend their arguments, and contrast opinions.*



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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. Educators who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process is solidly focused on practical skills that allow educators to better integrate the knowledge into daily practice.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life teaching.
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 Harvard case method with the best 100% online teaching methodology available: Relearning.

Our University is the first in the world to combine case studies with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which represent a real revolution with respect to simply studying and analyzing cases.



*Educators 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 Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 85,000 educators with unprecedented success in all specialties. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*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 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 specialist educators who teach the course, specifically for the course, so that the teaching content is really 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.



### Educational Techniques and Procedures on Video

TECH introduces students to the latest techniques, with the latest educational advances, and to the forefront of Education. All this, first-hand, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



### 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 multimedia content presentation training Exclusive system 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 & Re-testing**

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 your 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.





06

# Certificate

The Postgraduate Certificate in Neuropsychology in the Educational Process guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Certificate issued by TECH Technological University.





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*Successfully complete this training  
and receive your diploma without the  
hassle of travel or paperwork”*

This **Postgraduate Certificate in Neuropsychology in the Educational Process** is the most comprehensive and up-to-date educational program on the market.

After passing the evaluation, the student will receive by mail 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 professionals from career evaluation committees.

Title: **Postgraduate Certificate in Neuropsychology in the Educational Process**

ECTS: **6**

Official N° of Hours: **150 h.**



future

health confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

**tech** technological  
university

personalized service innovation

knowledge present quality

Postgraduate  
Certificate

Neuropsychology in the  
Educational Process

development languages

virtual classroom

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

6 ECTS Credits

Official N° of hours: 150 h.



Postgraduate Certificate

Neuropsychology in the  
Educational Process

