

# Postgraduate Certificate

## Principles of Cognitive Functions





## Postgraduate Certificate Principles of Cognitive Functions

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

Website: [www.techtitute.com/in/education/postgraduate-certificate/principles-cognitive-functions](http://www.techtitute.com/in/education/postgraduate-certificate/principles-cognitive-functions)

# Index

01

Introduction

---

p. 4

02

Objectives

---

p. 8

03

Structure and Content

---

p. 12

04

Methodology

---

p. 16

05

Certificate

---

p. 24

# 01

# Introduction

In the learning process, there is a direct implication of biological processes, which are key for the adequate cognitive development of the human being. However, sometimes there are difficulties and alterations that prevent the correct assimilation of concepts. Knowing how the brain works and the different mechanisms involved will facilitate the teacher's understanding of what happens to their students and even favor the adaptation of their classes according to the characteristics of the disorder they suffer from. This 100% online program provides students with a multidisciplinary education with a theoretical-practical approach that will allow them to advance in their field of work.



“

*A 100% online program designed to advance your professional career and apply all this knowledge in your classroom”*

The reception, storage, processing and retrieval of information involves cognitive functions that, without them, would not be possible. A process that is closely related to attention span, memory, language, praxias or gnosias. All of these are concepts that the teaching professional should know in order to better understand the learning process of students and how to guide learning according to the characteristics of the students or the content to be taught. This Postgraduate Certificate provides the professional with advanced knowledge in the field of the Bases of Cognitive Functions via a 100% online format, which will allow them to combine quality teaching with their work and/or personal responsibilities.

The professional is offered a university program, which over the course of 6 weeks will allow them to acquire the basic concepts in neurobiology involved in attention, memory, language, perception, visuospatial functions or executive functions. In addition, through multimedia content, students will learn about the main characteristics and types of praxias and agnosias. The simulations of practical cases provided by the specialized teaching staff will be very useful for students to approach real situations.

TECH offers, with this Postgraduate Certificate, the opportunity to acquire advanced learning comfortably. For this purpose, students only need to have an electronic device (computer, tablet or cell phone) with which to connect to the virtual platform where the entire syllabus is stored. Having the complete content available from the beginning of the program will allow students to distribute the course load according to their needs. An ideal flexibility for professionals seeking to pursue a high-level educational program without neglecting other areas of their life.

This **Postgraduate Certificate in Principles of Cognitive Functions** 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 Neurology
- ♦ 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



*Combine a university qualification  
with other areas of your life.  
TECH adapts to you”*

“

*What the memorization process is, what cognitive functions are involved, and their characteristics are just some of the concepts that you will integrate with this program"*

The program's teaching staff includes professionals from sector who contribute 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 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 during the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

*Delve into praxias and gnosias in a more visual way thanks to the multimedia content of this program.*

*Over 6 weeks, you will have the opportunity to delve into the origins of cognitive functions.*



# 02

# Objectives

This Postgraduate Certificate has been designed with a multidisciplinary approach, which will allow the teaching professional to acquire throughout the 150 teaching hours of this program, intensive learning on the bases of cognitive functions. Therefore, at the end of the program, students will master the most relevant functions, understand the neurobiological bases and the principles of cognitive functions. The teachers who impart this program will guide the students during this process so that they can advance in their professional careers in a much easier way.







“

*Incorporate the knowledge from this Postgraduate Certificate into your classroom. Thanks to it you will better understand the learning process”*



## General Objectives

---

- Provide the graduate with the latest educational tools that will allow them to know in detail the latest developments related to Cognitive Functions
- Improve their professional competencies and skills through the practical resolution of real clinical cases taken from the practices of practicing professionals





## Specific Objectives

---

- ◆ Know the most important cognitive functions
- ◆ Know and contextualize the neurobiological principles of the cognitive functions
- ◆ Know the principles and origins of cognitive functions

“

*The objective of this program is that you reach your educational goals in the shortest time possible. That's why TECH will provide you with the best tools to help you achieve it"*

# 03

## Structure and Content

TECH uses the latest technology applied to education in the syllabus of its programs with the aim of offering students a teaching according to the current academic times. This way, students have at their disposal video summaries, detailed videos, interactive diagrams, which are complemented with essential readings and real clinical cases. A set of didactic material that will allow you to delve in a more dynamic way into cognitive functions and neurobiological bases. Also, with the *Relearning* system, you will be able to reduce the long hours of study normally spent in other methodologies.



“

*If you have a computer with an Internet connection, you can connect whenever you want to this 100% online program. Enroll now”*

## Module 1. Cognitive Functions

- 1.1. Neurological Principles of Attention
  - 1.1.1. Introduction to the Concept of Attention
  - 1.1.2. Neurobiological Principles and Foundations of Attention
- 1.2. Neurobiological Principles of Memory
  - 1.2.1. Introduction to the Concept of Memory
  - 1.2.2. Neurobiological Principles and Foundations of Memory
- 1.3. Neurological Principles of Language
  - 1.3.1. Introduction to the Concept of Language
  - 1.3.2. Neurobiological Principles and Foundations of Language
- 1.4. Neurobiological Principles of Perception
  - 1.4.1. Introduction to the Concept of Perception
  - 1.4.2. Neurobiological Principles and Foundations of Perception
- 1.5. Visuospatial Neurobiological Principles
  - 1.5.1. Introduction to Visuospatial Functions
  - 1.5.2. Principles and Fundamentals of Visuospatial Functions
- 1.6. Neurobiological Principles of Executive Functions
  - 1.6.1. Introduction to Executive Functions
  - 1.6.2. Principles and Fundamentals of Executive Functions
- 1.7. Apraxias
  - 1.7.1. What is Praxis?
  - 1.7.2. Features and Types
- 1.8. Gnosis
  - 1.8.1. What is Praxis?
  - 1.8.2. Features and Types
- 1.9. Social Cognition
  - 1.9.1. Introduction to Social Cognition
  - 1.9.2. Characteristics and Theoretical Foundations





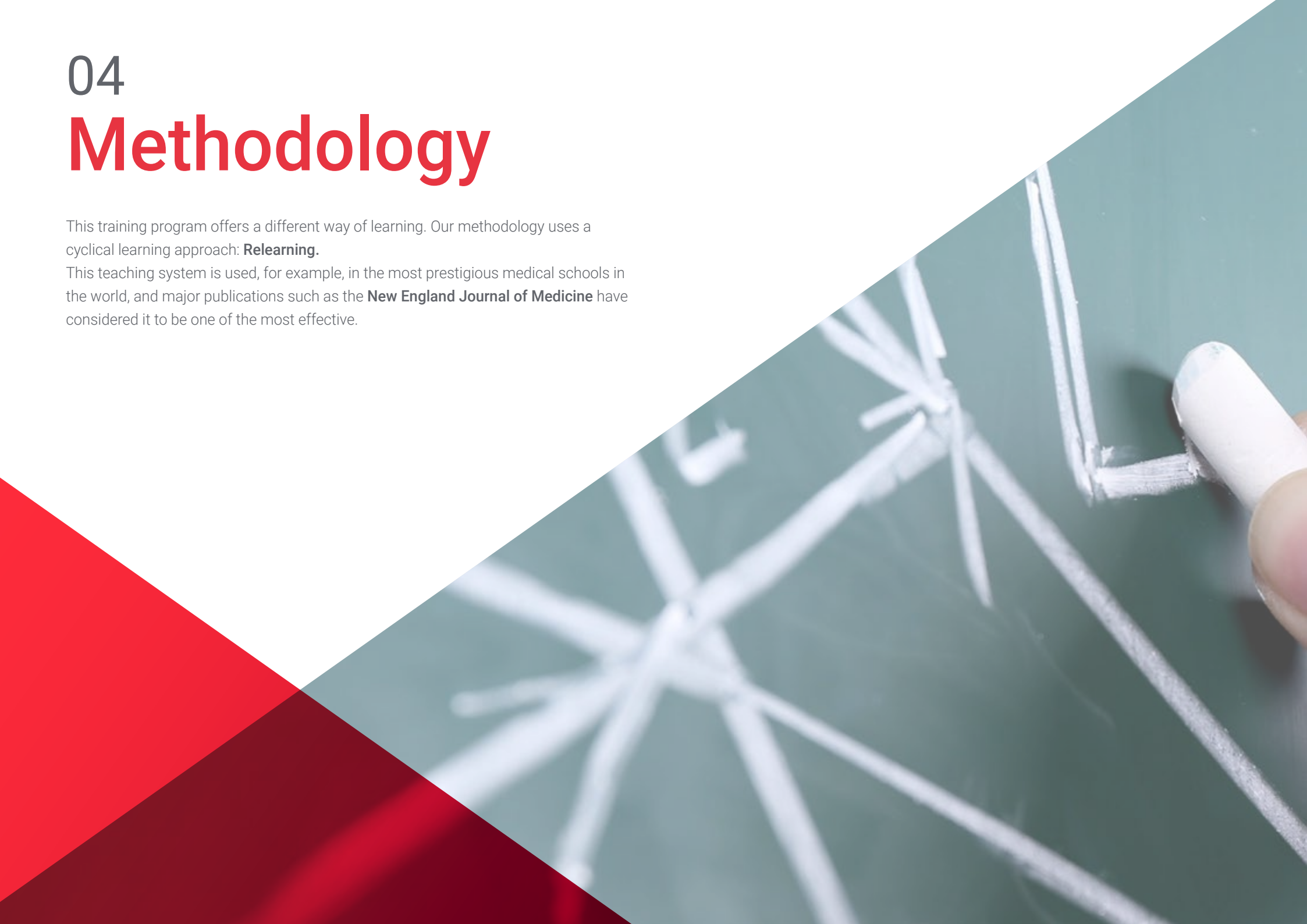
“ Take a step further as a teacher and understand how the biological process works that allows us to capture attention, how language is produced or how we understand space”

04

# Methodology

This training program offers 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.







“

*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 an abundance of 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.*

“

*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 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 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

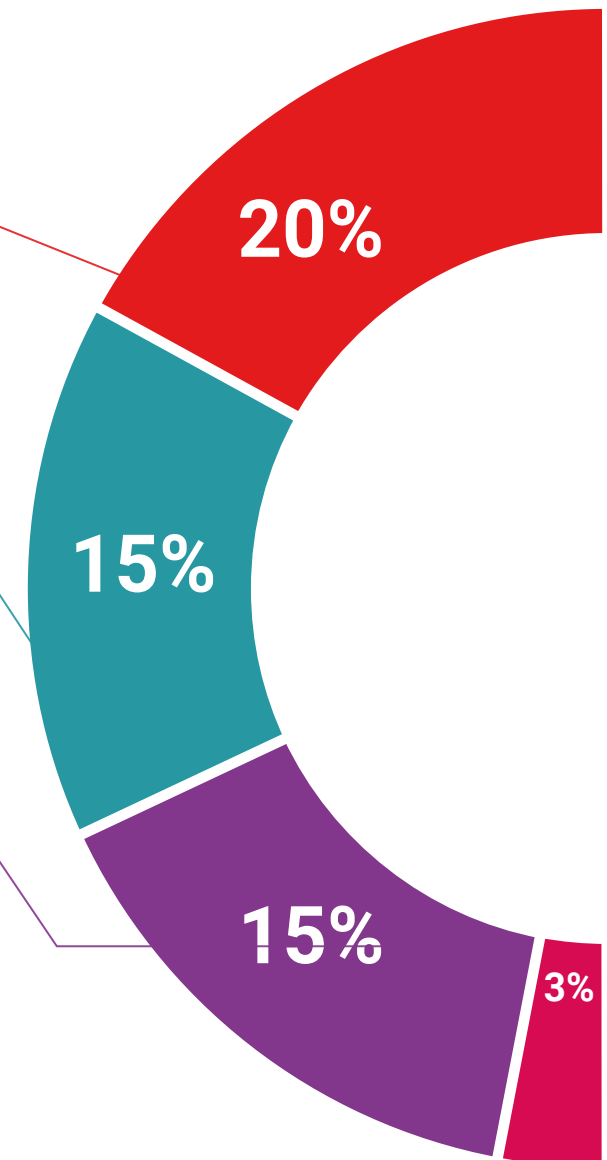
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

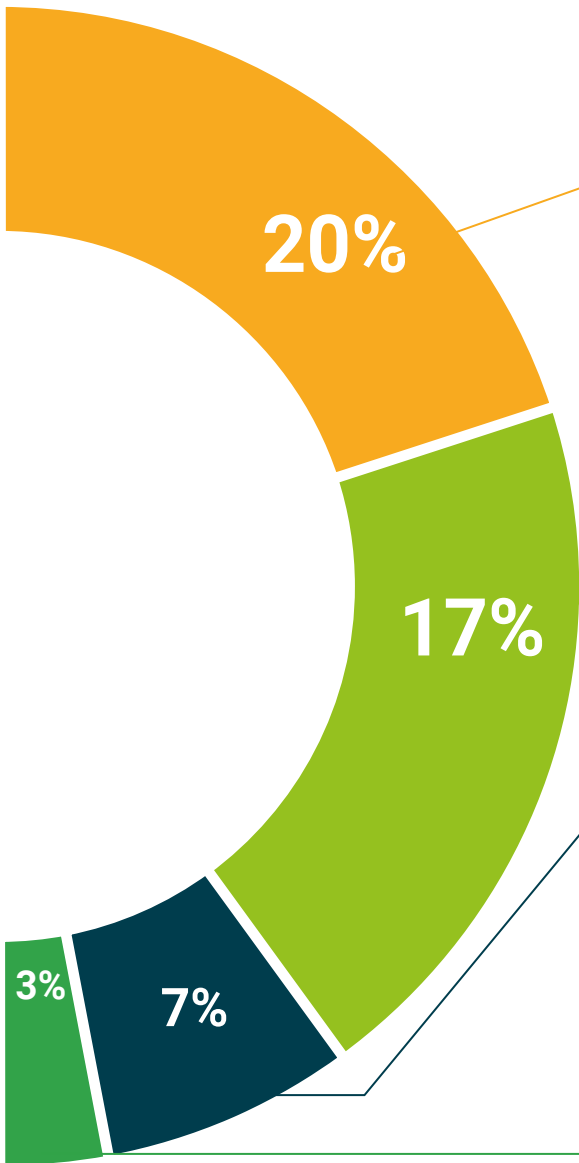
This exclusive multimedia content presentation training Exclusive system was awarded by Microsoft as a "European Success Story".



### 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 & 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 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.



05

# Certificate

The Postgraduate Certificate in Principles of Cognitive Functions 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 Principles of Cognitive Functions** 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 Principles of Cognitive Functions**

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 quality

development languages

virtual classroom

**tech** technological  
university

Postgraduate Certificate

Principles of Cognitive Functions

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

# Postgraduate Certificate

## Principles of Cognitive Functions

