

# Postgraduate Certificate

## Psychology of Perception and Attention





## Postgraduate Certificate Psychology of Perception and Attention

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/psychology/postgraduate-certificate/psychology-perception-attention](http://www.techtute.com/us/psychology/postgraduate-certificate/psychology-perception-attention)

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# 01

# Introduction

The intensive use of technologies, increasingly at younger ages, has modified the way in which people perceive their environment, which has redefined information processing or ways of concentration. In this context, Psychology has allied with disciplines such as Neurosciences, to investigate how the brain manages reality, also improving the intervention of patients. As such, TECH has developed this program so that professionals in this field can be up to date on the latest discoveries related to the mechanisms that underlie visual, auditory and speech perception, as well as the different types and models of attention. Likewise, this educational process is supported by a 100% online methodology and disruptive teaching systems such as Relearning.



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*During this 100% online TECH program, you will analyze perceptual disorders, including theories about selective, divided attention and executive functions”*

In recent years, there has been a widespread view that attentional disorders, such as ADHD, have increased, as have people with different cognitive and neurological demands. The truth is that these diagnoses have risen, but not because there are more cases than decades ago. In fact, this increase in statistics denotes a significant improvement in diagnostic mechanisms and their effectiveness. In other words, specialists now have tools and techniques with greater capacity to identify early on the attention or perception difficulties that some individuals may have.

At the same time, this is an ever-evolving field of research that requires professionals with up-to-date skills based on the latest scientific evidence. However, keeping up to date with these advances can be cumbersome for specialists, such as psychologists, since they need to combine their studies with their professional practice.

That is why TECH has put together this 100% online Postgraduate Certificate in which psychologists will be able to delve into sensory and attentional processes, interpreting their impact on human learning and behavioral modifications. The program defines the alterations and associated disorders that are related to divergences in visual, auditory and speech perception. Also, the characteristics, factors and types of attention are analyzed, together with the theories on selective, divided attention and executive functions.

Similarly, the academic itinerary delves into the link between Neurosciences and Psychology from the study of brain bases, the P300 component and the latest neuroimaging techniques. All this in order to integrate the most disruptive knowledge for research and understanding of these processes.

In turn, to address all these contents, TECH provides a Virtual Campus, equipped with various multimedia resources, such as explanatory videos and interactive summaries, which enhance the comprehensive update of the students. Likewise, the educational materials will be accessible 24 hours a day, from anywhere, without any restriction, so that graduates can balance work and education, while relying on exclusive teaching methods, such as Relearning.

This **Postgraduate Certificate in Psychology of Perception and Attention** contains the most complete and up-to-date program on the market. The most important features include:

- ♦ The development of case studies presented by experts in Psychology, Social Work, Care for People with Functional Diversity, etc.
- ♦ The graphic, schematic and practical contents with which it is conceived, collect scientific and practical information on those 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



*Get up to date on the most innovative mechanisms and procedures for the detection of perception disorders through the disruptive Relearning system implemented by TECH”*

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*Throughout this university program you will have the best multimedia resources, such as explanatory videos, taught by experts with extensive professional experience in Psychology”*

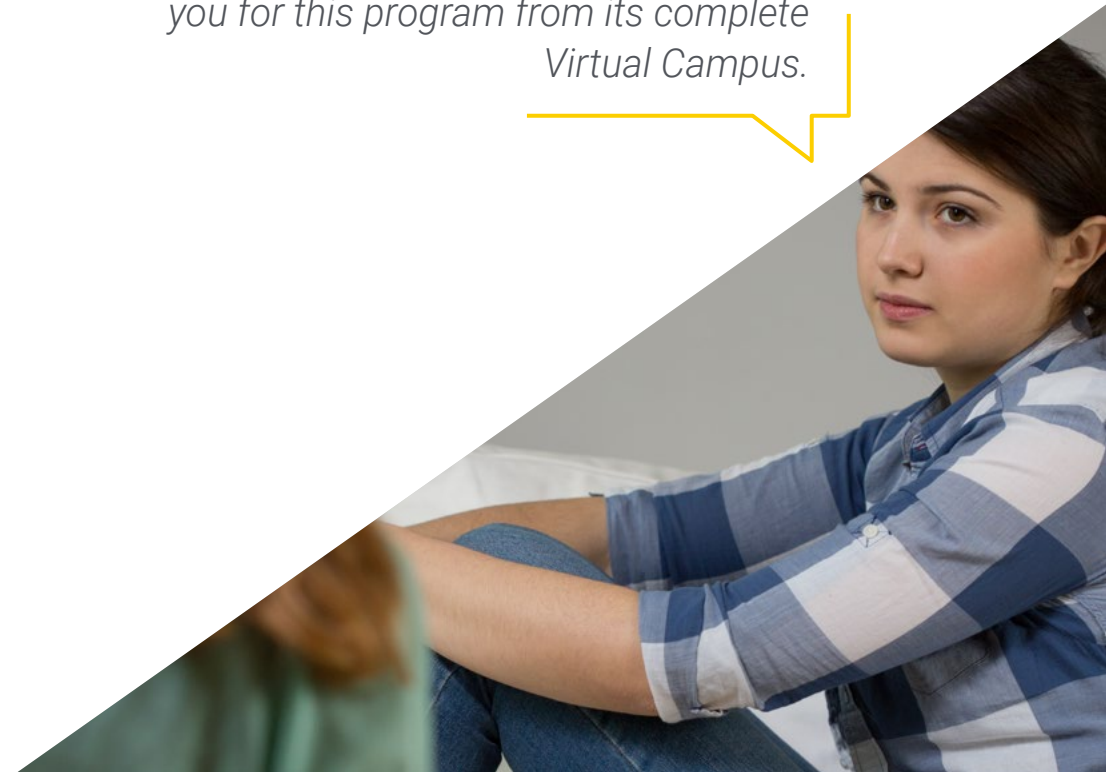
The program's teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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 during the course. For this purpose, students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*Delve into the links between Psychology and Neurosciences to address the modifications in the behavior of patients due to sensory and perceptual divergences.*

*At any time or place, you can consult the teaching material that TECH offers you for this program from its complete Virtual Campus.*



# 02

# Objectives

This TECH program offers a comprehensive vision of sensory and attentional processes, addressing their impact on people's behavior and their ability to learn. It analyzes the mechanisms underlying visual, auditory and speech perception, as well as the different types and models of attention, under the premise of qualifying its graduates to identify early on the alterations of attention and its associated disorders. In addition to providing them with the most efficient diagnostic and treatment tools and techniques; thereby preparing psychologists to exercise a practice of excellence, based on the latest scientific evidence for the profession.





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*The main objective of this Postgraduate Certificate is to prepare you to become a psychologist widely qualified to deal with patients with alterations in Perception and Attention”*



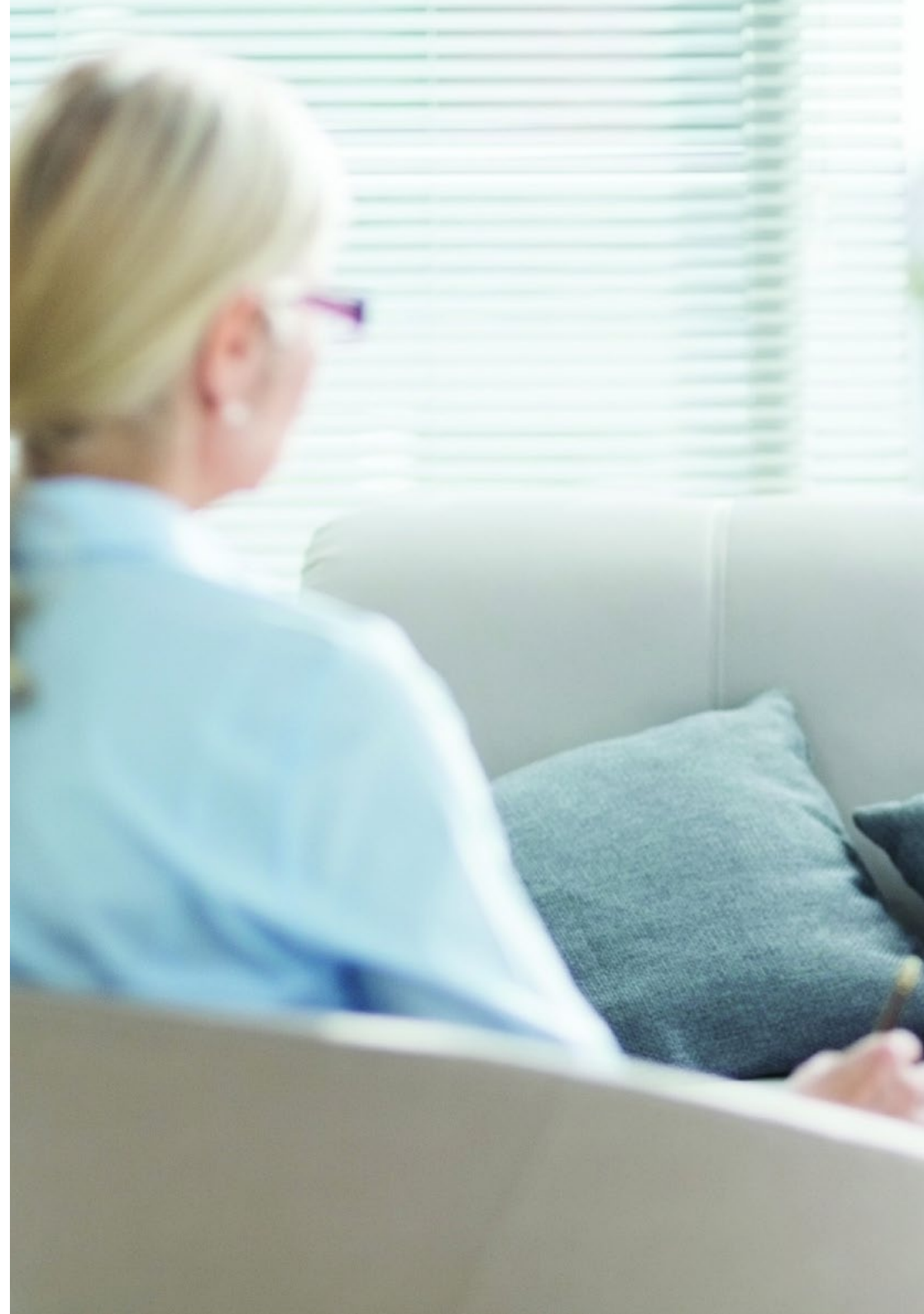
## General Objectives

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- Understand the fundamental processes of sensory perception and their influence on the interpretation of the environment
- Analyze the different types of attention and the factors that influence its functioning, as well as its alterations
- Define the relationship between neuroscience and psychology in the explanation of the mechanisms of perception and attention
- Apply knowledge of perception and attention to identify and address associated disorders in clinical and educational settings

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*Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice”*





## Specific Objectives

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- ♦ Describe the processes of visual, auditory and speech perception, identifying the structures involved
- ♦ Argue the main theories of selective, divided and sustained attention, and their relevance in cognitive psychology
- ♦ Identify disorders and disturbances related to perception and attention, such as ADHD or visual disorders
- ♦ Analyze the role of executive functions in the regulation of attention and their relationship with psychopathology
- ♦ Understand the use of neurophysiological techniques, such as the P300 component, in the investigation of attentional processes
- ♦ Assess the impact of perceptual and attentional mechanisms on human behavior and learning

# 03

## Structure and Content

The syllabus of this Postgraduate Certificate comprehensively covers the fundamentals of sensory perception and attention. To this end, the academic itinerary delves into how the brain interprets visual, auditory and speech stimuli. Likewise, it addresses the characteristics, factors and types of attention, along with its associated disorders. Also, the program addresses the close link between Psychology and Neurosciences in order to understand these processes. Likewise, for the analysis of these contents, the program relies on the disruptive Relearning methodology that, through repetition, enables the assimilation of the most complex concepts.





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*You will delve into the research potential of the P300 component as an electrophysiological indicator and the neuroimaging techniques that facilitate its study”*

## Module 1. Psychology of Perception and Attention

- 1.1. The Perception Process
  - 1.1.1. Introduction to Perception
  - 1.1.2. Color Perception
  - 1.1.3. Anomalous Perceptions
- 1.2. Introduction to the Study of Attention
  - 1.2.1. Characteristics of Attention
  - 1.2.2. Determinants Factors of Attention
  - 1.2.3. Types of Attention
  - 1.2.4. Attention Disorders
- 1.3. Visual perception
  - 1.3.1. Light
  - 1.3.2. The Organ of Vision: The Eye
  - 1.3.3. Photoreceptors and Phototransduction
  - 1.3.4. The Visual Pathways
  - 1.3.5. The Visual Cortex
  - 1.3.6. Visual Disorders
- 1.4. Motion Perception
  - 1.4.1. Definition of Motion
  - 1.4.2. Motion Perception Functions
  - 1.4.3. Characteristics of Motion Perception and its Types
- 1.5. Auditory Perception
  - 1.5.1. Touch
  - 1.5.2. Smell
  - 1.5.3. Taste
- 1.6. Perception of Speech
  - 1.6.1. Physical Characteristics of the Signal
  - 1.6.2. Acoustic Wave Components
  - 1.6.3. General Features of Speech Perception
  - 1.6.4. Speech Disorders
  - 1.6.5. Theories of Speech Perception





- 1.7. Selective Attention
  - 1.7.1. Functions
  - 1.7.2. Research Models
  - 1.7.3. Early Selection Models. Donald Broadbent's Filter Model of Attention
  - 1.7.4. Late Selection Models
  - 1.7.5. Multiple Selection Models
  - 1.7.6. Spatial Attention
- 1.8. Divided Attention
  - 1.8.1. Definition and Concept of Divided Attention
  - 1.8.2. Divided Attention Models
  - 1.8.3. Automaticity and Attentional Control
- 1.9. Neuropsychology of Executive Functions
  - 1.9.1. Objectives
  - 1.9.2. Introduction
  - 1.9.3. Executive Functions: Concepts and Definitions
  - 1.9.4. Approaches to the Study of Executive Functions
  - 1.9.5. Explanatory Models of Executive Functions
  - 1.9.6. Relationships of Executive Functions with Psychopathology
- 1.10. Neuroscience of Attention
  - 1.10.1. Introduction
  - 1.10.2. Cerebral Principles of Attention
  - 1.10.3. The P300 Component as an Electrophysiological Indicator
  - 1.10.4. Sustained Attention and Neuroimaging
  - 1.10.5. Main Disorders

# 04

# Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.





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*TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”*

### The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

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*At TECH you will NOT have live classes  
(which you might not be able to attend)”*



### The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

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*TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want”*

## Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



## Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

*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.*



## A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



*The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule”*

### 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 assess 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.

### The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the quality of teaching, quality of materials, course structure and objectives is excellent. Not surprisingly, the institution became the best rated university by its students on the Trustpilot review platform, obtaining a 4.9 out of 5.

*Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.*

*You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.*



As such, the best educational materials, thoroughly prepared, will be available in this program:



#### 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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



#### Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



#### Interactive Summaries

We present 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".

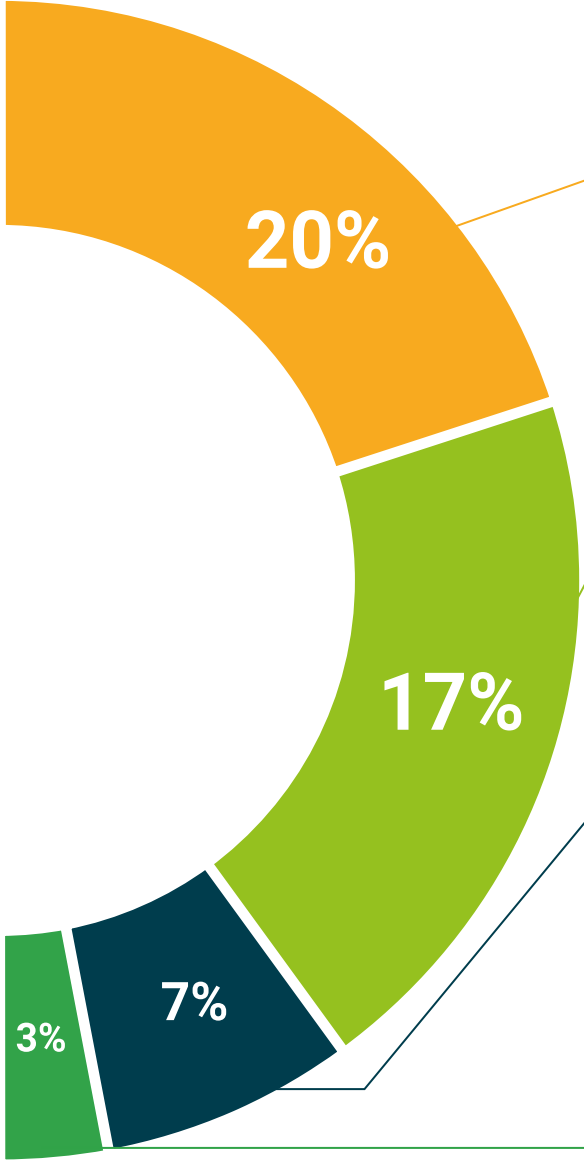


#### Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.







**Case Studies**

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.



**Testing & Retesting**

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.



**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 for 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 Psychology of Perception and Attention guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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

This private qualification will allow you to obtain a **Psychology of Perception and Attention** 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** private qualification, 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 Certificate in Psychology of Perception and Attention**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 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.



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