

# Postgraduate Certificate

## Visual System and School Performance





## Postgraduate Certificate

### Visual System and School Performance

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/in/psychology/postgraduate-certificate/visual-system-school-performance](http://www.techtitute.com/in/psychology/postgraduate-certificate/visual-system-school-performance)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 20*

06

Certificate

---

*p. 28*

# 01

# Introduction

Some of the consultations received by child psychologists are derived from patients with poor school performance. Educational centers recommend these specialists without detecting that what is happening to the child or adolescent is that they have a visual impairment that is negatively influencing their learning.

For this reason, psychologists must know how to detect these pathologies quickly, in order to establish an action plan that favors the child. Knowing in detail and having an up-to-date understanding of the visual system and its implication in learning and school performance is now possible thanks to this 100% online qualification that will provide graduates with the tools to become highly qualified specialists in the detection of visual problems in children and adolescents.





“

*Delving into the fundamentals of learning and the involvement of the visual system in its proper development will give you the keys to early detection of children with visual impairment"*

The correct development of learning during the school stage is influenced by different factors. One of the most important is to have good visual health, which allows students to perceive in detail all the stimuli involved in their pedagogical evolution. However, there are situations in which the lack of diagnosis in children suffering from ocular pathologies or visual dysfunctions seriously affects their school performance.

For this reason, psychology specialists must know how to recognize these cases in order to establish an action protocol that benefits the infant and helps them to follow a school and life rhythm according to normality. On many occasions, keeping up to date with the latest developments in the fundamentals of learning, school performance and the implication of the visual system in its correct development is a very complicated task for specialists due to the lack of qualifications that adapt to their time availability.

In this sense, TECH has designed a 100% online qualification that will allow you to organize your educational experience in a personalized way. It is a Postgraduate Certificate that will not only help you to update and expand your knowledge in this sector, but will also provide them with the tools they will need to achieve their most ambitious professional goals in psychology.

This **Postgraduate Certificate in Visual System and School Performance** contains the most complete and up-to-date program on the market. The most important features include:

- ◆ Practical cases presented by experts in psychology applied to academics
- ◆ 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 self-assessment can be used 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



*Analyzing the embryology of the eye and its nervous system will help you to easily understand the different ocular pathologies that a patient may suffer"*

“*You will have a team of experts dedicated exclusively to learning in childhood and adolescence, so that you can extract all the information you need to apply the latest protocols and techniques in your practice*”

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 professionals 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.

*You will have access to the most comprehensive and innovative 100% online syllabus in the sector, designed based on the most advanced pedagogical methodology.*

*With this Postgraduate Certificate, you will delve into the different learning processes and exponentially expand your knowledge in this area in just 12 weeks.*



# 02

# Objectives

This Postgraduate Certificate in Visual System and School Performance has been developed with the objective of positively influencing the academic improvement of the graduate. That is why TECH and its team of experts in the area have invested hours and hours of continuous research to develop the most complete and dynamic online academic program in the market. In this way, and thanks to the most advanced pedagogical tools, the graduate will find in this qualification the answer to all their questions.





“

*The higher your expectations, the more you will be able to get out of this Postgraduate Certificate thanks to all the tools that TECH will put at your disposal from the beginning"*



## General Objectives

---

- ♦ Define the different ways of learning and their direct relationship with academic performance at all educational levels, in students with cognitive difficulties
- ♦ Delve into the relationship between visual impairment and poor learning of reading and writing in children and adolescents
- ♦ Establish the guidelines and protocols for the psychologist to follow when encountering a patient in their office with an ocular pathology or visual dysfunction that is affecting their school performance



*Having a psychology specialist prepared to deal with clinical cases of patients with visual system deficits can have a significant influence on the academic development of the infant"*





## Specific Objectives

---

- ◆ Understand the peculiarities of adult learning
- ◆ Recognize the role the senses play in learning
- ◆ Observe perception in learning
- ◆ Explore attention in learning
- ◆ Solve attention-related problems in learning: ADHD
- ◆ Discover the neurons and neural networks associated with eye vision
- ◆ Learn about the specialized neurons of the eye, the rods and cones
- ◆ Introduce the sympathetic and parasympathetic nervous system
- ◆ Distinguish between ocular nerves and ocular tracts
- ◆ Learn about the visual cortex and the ectoderm
- ◆ Identify the mesoderm
- ◆ Establish eye development in infants
- ◆ Classify visual development during the first year of life

03

# Course Management

This Postgraduate Certificate in Visual System and School Performance has been directed by a team of experts in the field of psychology and optics with extensive professional experience and a strong commitment to the profession and teaching.

For this reason, they will be at the disposal of the graduates to answer any questions that may arise during the academic experience and to discuss any issues that may arise from the syllabus.



“

*This qualification will help you grow personally and professionally under the guidance of experts in psychology and vision professionals”*

## Management



### Mr. Vallejo Salinas, Ignacio

- ♦ Optometrist and Director of Mejor Visión Center
- ♦ Director of Mejor Visión Center
- ♦ Collaborator of the NGO Abre sus Ojos
- ♦ Co-founder and former president of the International Society of Developmental Optometry
- ♦ Master's Degree of Science in Clinical Optometry from the Pennsylvania College of Optometry, USA
- ♦ Master's Degree in Clinical Optometry from the European University of Madrid
- ♦ Diploma in Optics and Optometry from the University of Granada
- ♦ Diploma in Optics from the Complutense University of Madrid

## Professors

### Dr. De la Serna, Juan Moisés

- ♦ Psychologist and Writer expert in Neurosciences
- ♦ Writer specializing in Psychology and Neurosciences
- ♦ Author of the Open Chair in Psychology and Neurosciences
- ♦ Scientific disseminator
- ♦ PhD in Psychology
- ♦ Degree in Psychology. University of Seville
- ♦ Master's Degree in Neurosciences and Behavioral Biology Pablo de Olavide University, Seville
- ♦ Expert in Teaching Methodology. La Salle University
- ♦ University Specialist in Clinical Hypnosis, Hypnotherapy. National University of Distance Education - UNED
- ♦ Diploma in Social Graduate, Human Resources Management, Personnel Administration. University of Seville
- ♦ Expert in Project Management, Administration and Business Management. Federation of Services UGT
- ♦ Trainer of Trainers. Official College of Psychologists of Andalusia



**Dr. Vallejo Bermejo, Miguel**

- ◆ Technical Director and Optometric Audiologist of the Postas Group
- ◆ Doctorate in Health Science and Technology from CEU San Pablo University
- ◆ Master's Degree in Visual Rehabilitation from the University of Valladolid
- ◆ Higher Technician in Prosthetic Audiology by the European University
- ◆ Expert in Pediatric Optometry and Low Vision by the European University

“

*A unique, key, and decisive academic experience to boost your professional development”*

# 04

## Structure and Content

In this Postgraduate Certificate in Visual System and School Performance, graduates will find, first of all, the most exhaustive theoretical content in the market. In addition, following the successful pedagogical methodology that defines this university, they will have clinical cases of real patients in which they will be able to apply everything they have learned during the lessons. Finally, in the virtual classroom, you will have additional material in different formats with which you will be able to delve into those aspects of the syllabus that you consider most important for your professional development.







“

*You will have at your disposal all the content from the beginning of the course and you will be able to access the Virtual Classroom 24 hours a day”*

## Module 1. Fundamentals of Learning and School Performance

- 1.1. Defining Learning
  - 1.1.1. Understanding Learning
  - 1.1.2. Types of Learning
- 1.2. The Characteristics of Learning
  - 1.2.1. Learning Classification
  - 1.2.2. Theories on Learning
- 1.3. Learning Assessment
  - 1.3.1. Learning in Childhood
  - 1.3.2. Learning in Adolescence
- 1.4. Basic Processes in Learning
  - 1.4.1. The Sensation Process in Learning
  - 1.4.2. The Perception Process in Learning
- 1.5. Attention Processes in Learning
  - 1.5.1. The Process of Attention in Learning
  - 1.5.2. Attention Problems in Learning
- 1.6. Cognitive Processes and Meta-Cognitive Learning
  - 1.6.1. The Cognitive Process in Learning
  - 1.6.2. The Process of Metacognition in Learning
- 1.7. Evolution of Psychological Processes in Learning
  - 1.7.1. Origin of Psychological Processes in Learning
  - 1.7.2. Evolution of Psychological Processes in Learning
- 1.8. The Role of the Family in Education
  - 1.8.1. The family as the First Socializing Agent in Learning
  - 1.8.2. Family Educational Models
- 1.9. The Educational Context
  - 1.9.1. Features of Non-formal Education
  - 1.9.2. Features of Formal Education
- 1.10. Learning Difficulties
  - 1.10.1. Difficulties due to Cognitive Impairments
  - 1.10.2. Difficulties in Academic Performance



**Module 2. The Visual System**

- 2.1. The Visual Nervous System
  - 2.1.1. Neurons and Neuronal Network in the Eye
  - 2.1.2. Rods and Cones
- 2.2. The Peripheral Visual Nervous System
  - 2.2.1. Sympathetic Nervous System
  - 2.2.2. Parasympathetic Nervous System
- 2.3. The Central Visual Nervous System
  - 2.3.1. Nerves and Ocular Tracts
  - 2.3.2. The Visual Cortex
- 2.4. Eye Embryology
  - 2.4.1. Ectoderm
  - 2.4.2. Mesoderm
- 2.5. Childhood Visual Development
  - 2.5.1. Infant Eye Development
  - 2.5.2. Visual Development in the First Year of Life
- 2.6. Ontogenetic Development
  - 2.6.1. Monocular Reflexes
  - 2.6.2. Binocular Reflexes
- 2.7. Adolescence Visual Development
  - 2.7.1. Adolescent Visual Development
- 2.8. Neurodegenerative Pathologies
  - 2.8.1. Visual Development in Neurodegenerative Pathologies
- 2.9. Congenital Visual Problems
  - 2.9.1. Classification and Symptomatology
  - 2.9.2. Detection and Intervention
- 2.10. Acquired Visual Problems
  - 2.10.1. Classification and Symptomatology
  - 2.10.2. Detection and Intervention

05

# 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.



“

*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.

“

*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 adapted in 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 assess and re-assess 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.



06

# Certificate

This Postgraduate Certificate in Visual System and School Performance 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 Visual System and School Performance** 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 Visual System and School Performance**

Official N° of Hours: **300 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



## Postgraduate Certificate Visual System and School Performance

- » Modality: online
- » Duration: 12 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

# Postgraduate Certificate

## Visual System and School Performance

