

# Postgraduate Certificate

## The Visual System and Learning to Read



## Postgraduate Certificate

### The Visual System and Learning to Read

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

Website: [www.techtute.com/us/psychology/postgraduate-certificate/visual-system-learning-read](http://www.techtute.com/us/psychology/postgraduate-certificate/visual-system-learning-read)

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# 01

# Introduction

Reading is fundamental for the correct academic and pedagogical development of children and adolescents. From the time the student starts school, we work so that he learns the keys that will allow him, with the passage of time, to have an optimal and adequate reading ability, a necessary quality to lead a life adapted to normality. Visual quality in this process is fundamental, so when psychologists receive patients with problems in learning to read, they must know the protocols that allow them to rule out a possible visual deficit. Therefore, this degree has been designed so that they can update and expand their knowledge in this field, through a 100% online program, created by experts and perfectly compatible and combinable with their working life.





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*This course delves into the different processes involved in reading, so that you can work with your patient according to his or her deficit and in a personalized way"*

Learning to read is, nowadays, very necessary to lead a normal life in a society characterized by digitalization and technology. In addition, it is a knowledge that influences people's literacy and daily habits: knowing the side effects of a pharmacological treatment, writing a prescription, communicating with family members, etc. From the beginning of the school stage, teachers work so that children acquire the necessary skills that allow them to learn to read, however, there are cases in which, due to an undiagnosed or untreated visual deficit, the infant is unable to achieve it.

In this sense, the role of psychologists is fundamental, since diagnosing this problem can help them to apply an adequate treatment that allows the patient to continue his or her development normally. For this reason, TECH Global University has decided to launch this Diploma in Visual System and Learning to Read, a very complete program that covers in depth the agents involved in learning to read, the stages and skills to work on. It also devotes part of the syllabus to the importance of visual accommodation and ocular motility in this process.

This is a unique academic opportunity to expand your resume with the world's largest online university and its faculty, a group of experts in psychology and vision. In addition, the convenient online format of this degree will allow graduates to organize their academic calendar in a completely personalized way.

### **This Postgraduate Certificate in The Visual System and Learning to Read**

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



*Deepen the perceptual-motor, linguistic, cognitive and motivational skills that will help your patient, thanks to your intervention, to learn to read"*



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*Because the course of a degree to improve as a psychologist should not be a problem that influences your working life, TECH Technological has a great offer of 100% online postgraduate courses, adapted to your needs”*

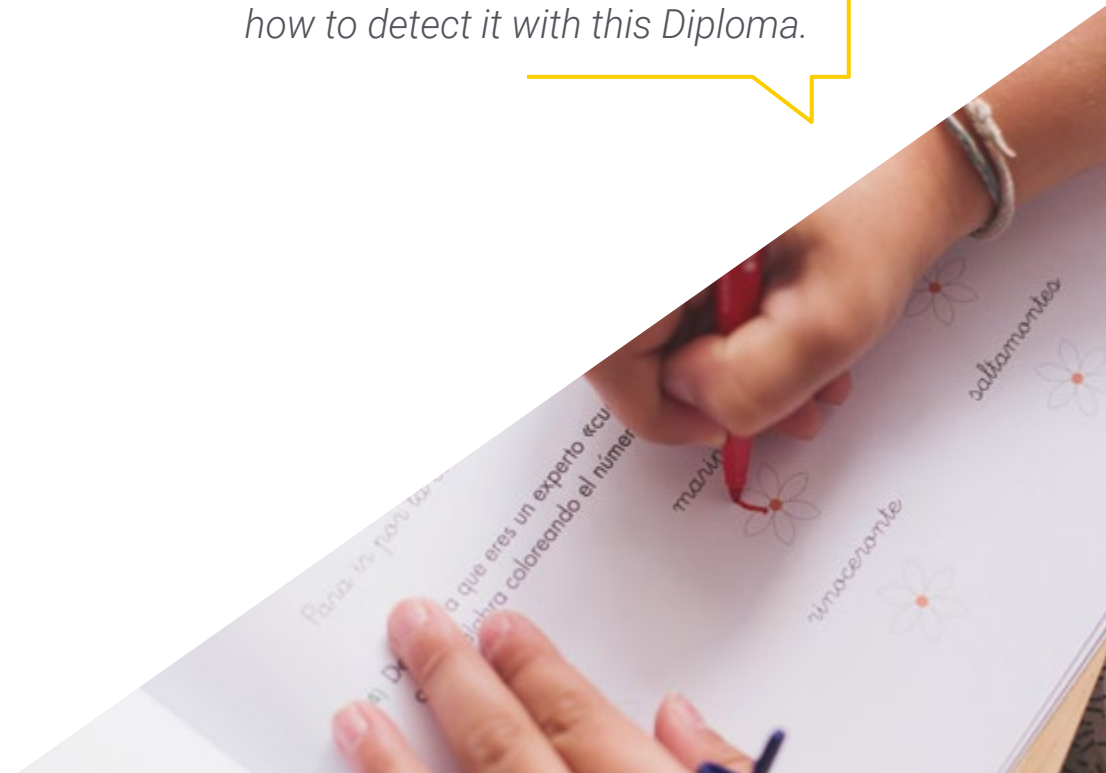
The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its 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 an immersive education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

*A detailed knowledge of the visual system and the muscles involved will give you a broader and more detailed view of the possible deficit your patient is suffering from.*

*Update your knowledge about neuropsychological function, the symptoms of a possible alteration and how to detect it with this Diploma.*



# 02

# Objectives

The main objective of this Diploma in Visual System and Learning to Read is that graduates find in this degree the guide to achieve their academic and professional goals. The aim is to provide you with all the tools that will allow you to update and expand your knowledge in this area in only 180 hours, which is only possible thanks to the best theoretical and practical content that you will find in this very complete 100% online program.





A close-up photograph of a hand holding an orange letter 'A' block. The background is blurred, showing other colorful blocks and a white surface. The image is partially obscured by a diagonal white and pink overlay.

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*If your goal is to become a prepared and confident psychologist with your diagnoses and treatments this degree will give you the keys to achieve it"*



## General Objectives

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- ♦ To update the knowledge of graduates on the importance of the visual system in the correct academic development of the same
- ♦ To deepen the relationship between visual deficits and poor reading learning in children and adolescents
- ♦ To provide psychology professionals with the tools that will allow them to intervene in clinical cases of patients with visual impairment based on the most updated protocols in the field





## Specific Objectives

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- ♦ Discover the evolutionary development of vision
- ♦ Introduce the development of vision in the educational environment
- ♦ Discern visual attention in learning
- ♦ Understand visual perception in learning
- ♦ Classify primary and association visual areas

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*Investing in this University Course will demonstrate a very strong commitment to psychology and to your patients that their parents will appreciate”*



03

# Course Management

The direction of this Diploma in Visual System and Learning to Read has been carried out by a team of experts in the field of psychology and vision with extensive professional experience and with a great commitment to the profession and teaching. That is why they will be at graduates' disposal to consult any doubts that may arise during the academic experience and to discuss the issues generated by the syllabus.





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*This Diploma 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

### Ms. Vallejo Sicilia, Lara

- ♦ Psychologist at Mejor Visión Center
- ♦ Visual Therapist in health institutions of the Community of Madrid
- ♦ Master's Degree in Clinical and Health Psychology by Camilo José Cela University
- ♦ Degree in Psychology from the Camilo José Cela University



# 04

## Structure and Content

TECH Global University is, today, the only university in the world licensed to develop its academic programs based on the specifications governing the pedagogical methodology based on Relearning. Thus, in this and all its degrees, the most modern and innovative techniques of the educational sector have been used, focused on guaranteeing graduates a unique and unequalled academic experience, thanks to which they can obtain the knowledge that will allow them to overcome, with total guarantee of success, their most demanding academic objectives.







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*Access hours of additional high-quality content selected by TECH Global University team of experts and delve deeper into those aspects of the Visual System and Learning to Read that are of most interest to your development as a psychologist”*

## Module 1. The Visual System and Reading

- 1.1. Reading Foundations
  - 1.1.1. The Reading Process
  - 1.1.2. Development Associated to Reading
- 1.2. Processes Involved in Reading
  - 1.2.1. Perceptive Processes
  - 1.2.2. Lexical Processes
  - 1.2.3. Syntactic Processes
  - 1.2.4. Semantic Processes
- 1.3. Prerequisites for Learning to Read
  - 1.3.1. Perceptive-Motor Skills
  - 1.3.2. Language Skills
  - 1.3.3. Cognitive Skills
  - 1.3.4. Motivational Skills
- 1.4. Stages/phases of reading
  - 1.4.1. Logographic phase of reading
  - 1.4.2. Alphabetical phase of reading
  - 1.4.3. Orthographic phase of reading
- 1.5. Reading models
  - 1.5.1. Bottom Up Method
  - 1.5.2. Top Down Method
- 1.6. The Visual System in Reading I. Accommodation
  - 1.6.1. Ciliary Muscles
  - 1.6.2. Visual Sharpness Accommodation
- 1.7. The Visual System in Reading II. Ocular Motricity
  - 1.7.1. Extraocular Muscles
  - 1.7.2. Eye Movements Versions
  - 1.7.3. Saccadic Movements
  - 1.7.4. Regression Movements





- 1.8. The Visual System in Reading III. Binocularity
  - 1.8.1. Extraocular Muscles
  - 1.8.2. Vergences
- 1.9. Visual hygiene rules for reading
  - 1.9.1. Posture
  - 1.9.2. Environment
- 1.10. Neuropsychological function
  - 1.10.1. Symptomatology and detection
  - 1.10.2. Neuropsychological Intervention
- 1.11. Problems. Associated to Reading
  - 1.11.1. Dyslexia
  - 1.11.2. Attention Deficit Disorder with or without Hyperactivity

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*It was time to decide. Bet on TECH Global University and this Diploma and guarantee yourself a noticeable academic and professional improvement in only 6 weeks"*

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.



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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 180,000 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

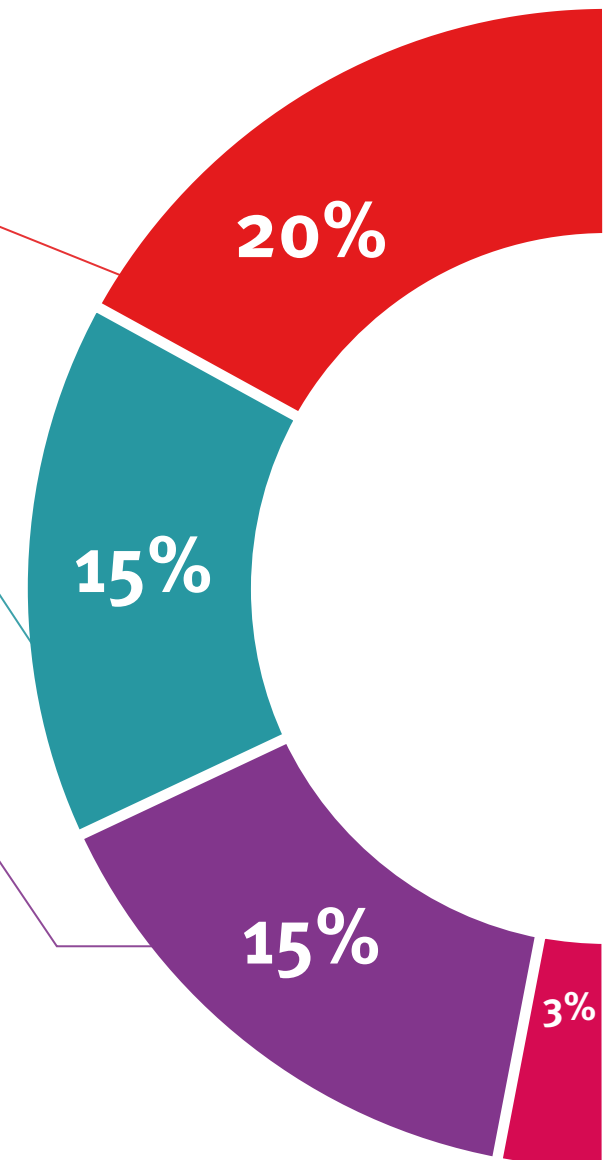
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

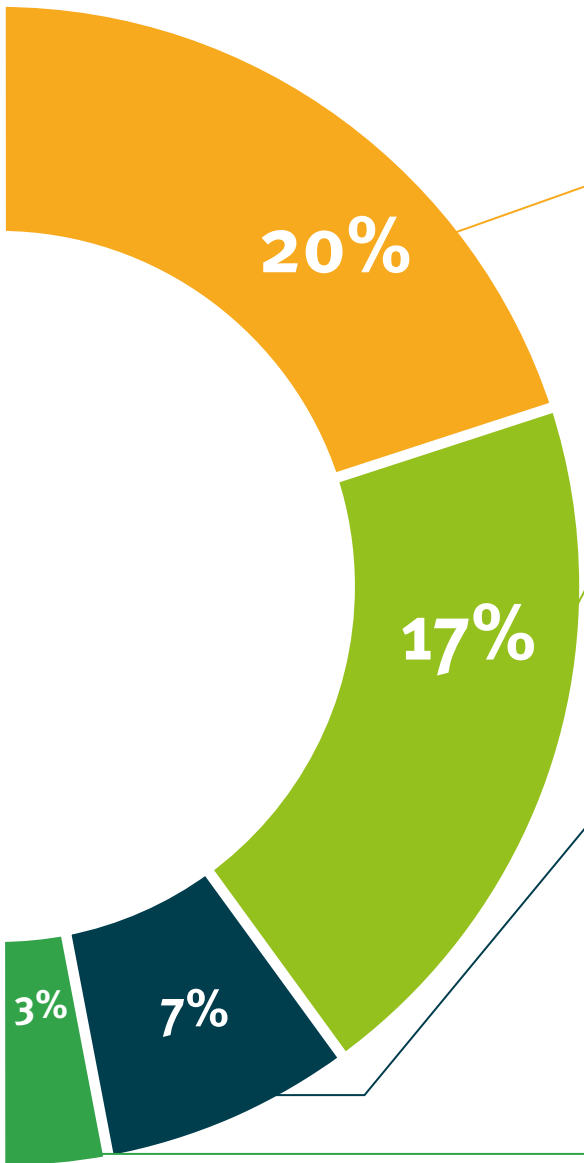
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### 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.





06

# Certificate

The Postgraduate Certificate in The Visual System and Learning to Read guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.





The image features two graduation caps (mortarboards) against a blue sky with light clouds. One cap is in the foreground, tilted upwards, and another is behind it, also tilted. The caps are black with a maroon top. The background is a bright blue sky with soft white clouds. The image is partially overlaid by a large white diagonal shape that contains the text.

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

This program will allow you to obtain your **Postgraduate Certificate in The Visual System and Learning to Read** 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.

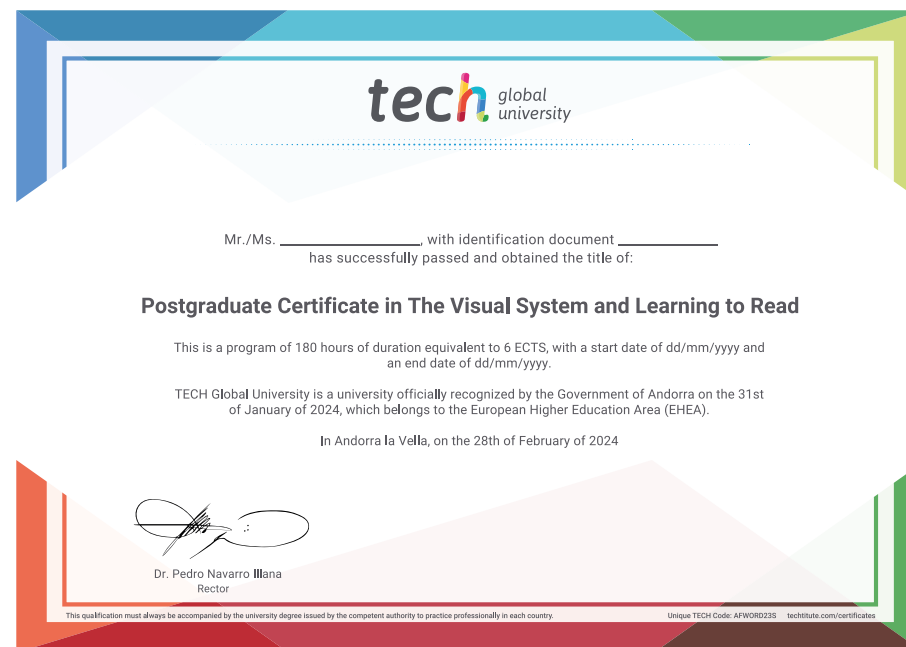
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in The Visual System and Learning to Read**

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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