

Postgraduate Diploma Neuroanatomy for Teachers





Postgraduate Diploma Neuroanatomy for Teachers

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 20 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitude.com/us/education/postgraduate-diploma/postgraduate-diploma-neuroanatomy-teachers

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Study Methodology

p. 20

06

Certificate

p. 30

01

Introduction

For teachers, understanding the structures of the brain and how they determine cognitive, emotional, and social functioning significantly enhances their ability to work with an increasingly diverse student body. This Postgraduate Diploma will provide you with this knowledge, guiding you through the necessary learning to successfully intervene in any scenario within the realm of diversity. It is a program designed with a practical-focused approach to study, aimed at giving you greater capacity and accuracy in your classroom work.



“

Acquire the most advanced knowledge in neuroanatomy for teachers, with a Postgraduate Diploma designed to provide you with the keys to understanding the behavior and development of your students from a neuropsychological perspective”

Understanding how our brain works is one of the greatest challenges faced by the most prepared educators. This Postgraduate Diploma will show you how brain structures function and how they determine behavior and development. It will also allow you to understand the biochemicals that are activated and inhibited in each of these disorders.

This program is unique in that it not only teaches you about the biochemistry behind the disorder and the pharmacological involvement, but also equips you with knowledge of psychological techniques and psychotherapy in the biochemical process of the disorder.



The Postgraduate Diploma in Neuroanatomy for Teachers is an exclusive, high-quality training tool created to provide you with real support in advancing your profession"

This **Postgraduate Diploma in Neuroanatomy for Teachers** contains the most complete and up-to-date educational program on the market. The most important features include:

- ♦ Development of over 75 clinical cases presented by experts
- ♦ The graphic, schematic, and practical contents of which they are composed provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ New diagnostic and therapeutic developments on evaluation, diagnosis and intervention of the biological and neurological processes which explain mental illnesses
- ♦ It contains practical exercises where the self-evaluation process can be carried out to improve learning
- ♦ Algorithm-based interactive learning system for decision-making in the presented clinical situations
- ♦ With special emphasis on evidence-based psychology and research methodologies in psychology
- ♦ All 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

“

The most advanced distance learning systems available today, at your service in high-impact training”

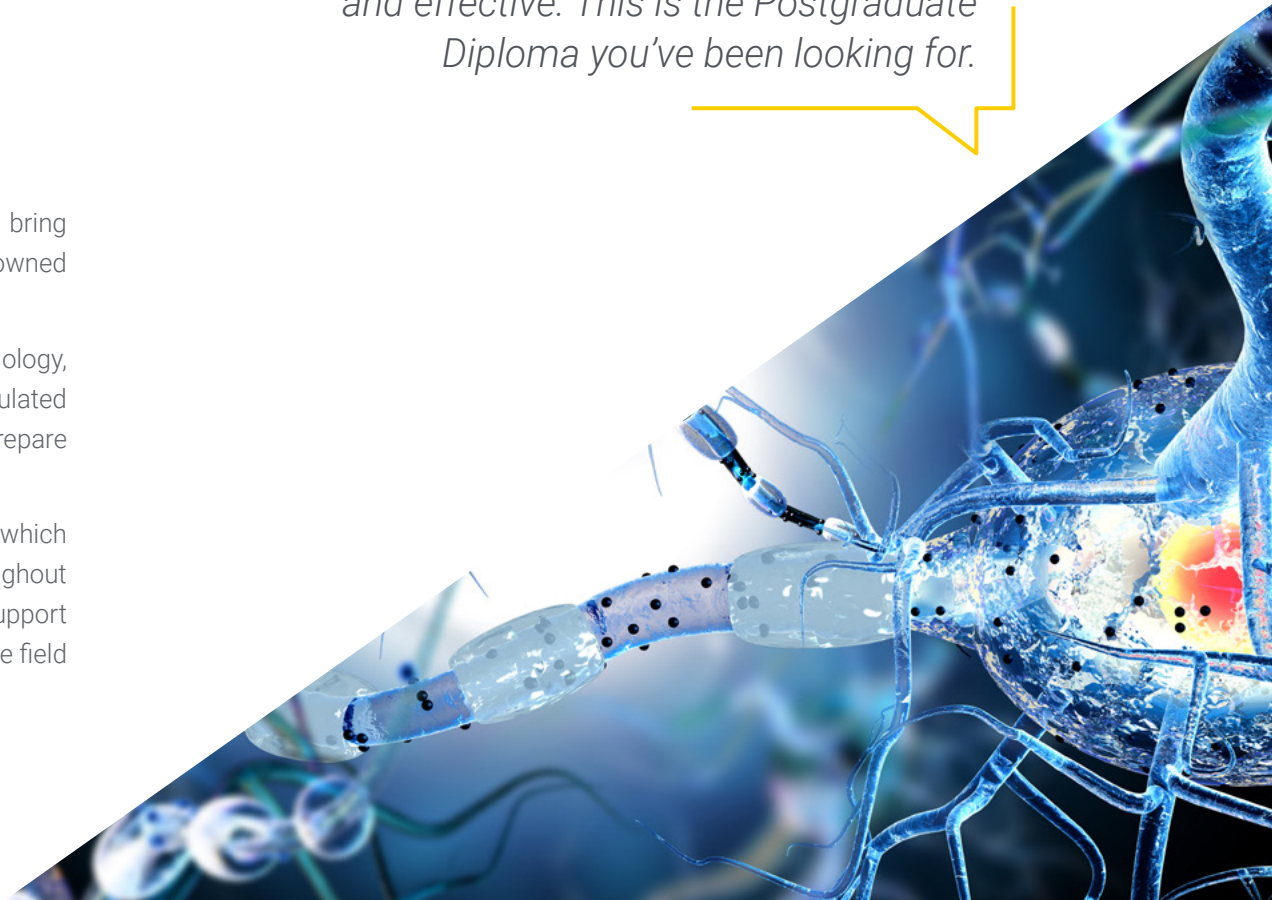
This course is designed with the most advanced educational resources available, to achieve a more comfortable and efficient learning space, enhancing your potential.

Intensive, comprehensive, engaging, and effective. This is the Postgraduate Diploma you’ve been looking for.

The program includes faculty members from the field of Psychology, who bring their professional experience into this Postgraduate Diploma, along with renowned specialists from leading scientific societies.

Thanks to its multimedia content, developed with the latest educational technology, professionals will benefit from situated and contextual learning—simulated environments designed to provide immersive learning experiences that prepare them for real-life situations.

The design of this program is based on Problem-Based Learning (PBL), in which professionals will need to solve various practical situations presented throughout the Postgraduate Diploma. To assist with this, the professional will have the support of an innovative interactive video system created by recognized experts in the field of clinical neuropsychology, with extensive teaching experience.



02 Objectives

This training program is designed to enhance teaching activities, supported by specific knowledge in clinical neuropsychology. This translates into the ability to understand and, therefore, to intervene appropriately in various classroom situations regarding how the brain functions in terms of emotions and development, using clinical neuropsychology approaches.



“

The primary goal of this Postgraduate Diploma is to provide educators with the essential knowledge of the most relevant aspects of neuroanatomy in the practice of teaching”



General Objectives

- ♦ Enhance understanding of the overall functioning of the brain, as well as the knowledge of biochemistry that activates or inhibits it
- ♦ Manage brain activity as map of mental disorders
- ♦ Develop technologies that induce changes in the brain to overcome mental illness
- ♦ Understand and manage current psychopharmacology, integrating this knowledge into psychological tools that can improve mental health disorders
- ♦ Incorporate into the psychologist's intervention protocol the ability to influence the brain's biochemistry through knowledge



*An advanced and fully up-to-date training
that will propel you in your profession"*





Specific Objectives

- ♦ Identify the biological foundations of behavior
- ♦ Learn phylogeny from cerebral ontogeny
- ♦ Manage the neurological and biochemical framework in the overall context of human behavior
- ♦ Develop models that encompass brain activity, mental health, and mental illness
- ♦ Understand and master the specific biochemical and anatomical activity in each mental disorder
- ♦ Master the biochemical antagonists and agonists of overall brain function
- ♦ Acquire pharmacological knowledge in the treatment of mental illness
- ♦ Train in the development of psychological models that improve biochemical and anatomical imbalances
- ♦ Engage in multidisciplinary intervention in mental disorders
- ♦ Develop psychological tools to change the biochemistry and neuroanatomy of the brain

03

Course Management

The program includes a faculty of leading specialists in Neuroanatomy for Teachers, who bring their professional experience into this training. Additionally, other recognized specialists participate in its design and preparation, which means that the program is developed in an interdisciplinary manner.



“

The faculty includes recognized experts in Neuroanatomy for Teachers, who have contributed all their experience and knowledge to the creation of this program”

Management



Dr. Martínez Lorca, Alberto

- ♦ Specialist in Nuclear Medicine. Rey Juan Carlos University Hospital - Quirón. Madrid. Spain

Coordinator



Dr. Aguado Romo, Roberto

- ♦ Psychologist specialized in Clinical Psychology
- ♦ European specialist psychologist in Psychotherapy
- ♦ Managing Director of the evaluation and psychotherapy centers in Madrid, Bilbao, and Talavera de la Reina
- ♦ Author of Time-Limited Psychotherapy
- ♦ Researcher at CerNet, Emotional Network, and European Institute for Time-Limited Psychotherapies

Teachers

Fernández, Ángel

- ♦ European specialist psychologist in Psychotherapy from the EFPA
- ♦ Health Psychologist. Master's Degree in Clinical and Health Psychology
- ♦ Director of the Evaluation and Psychotherapy Center of Madrid
- ♦ Tutor in charge of the Psychodiagnosis and Psychological Intervention area of the CEP
- ♦ Author of the T.E.N. technique
- ♦ Head of studies on the Master's Degree in Time-Limited Psychotherapy and Health Psychology
- ♦ Specialist in Clinical Hypnosis and Relaxation

Ms. González, Mónica

- ♦ Psychologist in charge of the Department of Child and Adolescent Psychology of the Quirón Hospital and Avatar Psychologists in Marbella
- ♦ Master's Degree in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapy
- ♦ Kaisser, Carlos. M.D. Otolaryngologist
- ♦ Head of the Otolaryngology department at Segovia General Hospital
- ♦ Member of the Royal Academy of Medicine of Salamanca
- ♦ Master's Degree in Time-Limited Psychotherapy and Health Psychology
- ♦ Expert in Psychosomatic Medicine

Ms. Martínez-Lorca, Manuela

- ♦ Doctorate in Psychology from the University of Castilla-La Mancha
- ♦ Health Psychologist
- ♦ Lecturer in the Department of Psychology at the UCLM. Master's Degree in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapy
- ♦ Specialist in Clinical Hypnosis and Relaxation

Ms. Roldan, Lucia

- ♦ Health Psychologist
- ♦ Cognitive-behavioral intervention specialist
- ♦ Master's Degree in Time-Limited Psychotherapy and Health Psychology
- ♦ Expert in energy therapy intervention

04

Structure and Content

The approach of this training has been developed in accordance with the criteria of excellence of our university. With an engaging and comprehensive development, this journey will allow you to learn dynamically and continuously, helping you achieve your goals with ease and efficiency.



“

All the topics have been developed to achieve the greatest growth in the students of this program, with a balanced approach that perfectly combines intensity and flexibility”

Module 1. Principles of Neuroanatomy

- 1.1. Classification of Nerve Fibers (Erlanger and Gasser)
 - 1.1.1. Alpha
 - 1.1.2. Beta
 - 1.1.3. Gamma
 - 1.1.4. Delta
 - 1.1.5. Sympathetic
 - 1.1.6. Preganglionic
 - 1.1.7. Mechanoreceptors
 - 1.1.8. Sympathetic Nociceptors
 - 1.1.9. Preganglionic
- 1.2. Vegetative Nervous System
 - 1.2.1. Sympathetic
 - 1.2.2. Parasympathetic
- 1.3. Spinal Cord
- 1.4. Spinal Nerves
- 1.5. Afferent and Efferent Communication
- 1.6. Gray Matter
- 1.7. White Matter
- 1.8. Brainstem
 - 1.8.1. Midbrain
 - 1.8.2. Varolio Bridge
 - 1.8.3. Medulla Oblongata
 - 1.8.4. Cerebellum
- 1.9. Limbic System
- 1.10. Amygdalas
- 1.11. Hippocampus
- 1.12. Hypothalamus
- 1.13. Cingulum
- 1.14. Sensory Thalamus
- 1.15. Base Cores
- 1.16. Periaqueductal Gray Region



- 1.17. Pituitary Gland
- 1.18. Nucleus Accumbens
- 1.19. Cerebral Cortex (Theory of Cerebral Evolution, Carter 2002)
 - 1.19.1. Parietal Cortex
 - 1.19.2. Frontal Lobes (6m)
 - 1.19.3. Limbic System (12 m)
 - 1.19.4. Language Areas: 1st Wernicke, 2nd Broca. (18 m)
 - 1.19.5. Myelination of Prefrontal Lobes (18 months)
 - 1.19.6. Myelination of Inferior Parietal Lobe (20 months)
 - 1.19.7. Maturation of the Hippocampus (36 months)
- 1.20. Orbital Frontal Lobe
- 1.21. Functional Relationships of the NS with Other Organs and Systems
- 1.22. Neuromotor Transmission
- 1.23. Sensoperception
- 1.24. Neuroendocrinology (Hypothalamus-Endocrine System Relationship)
 - 1.24.1. Temperature Regulation
 - 1.21.2. Blood Pressure Regulation
 - 1.24.3. Food Ingestion Regulation
 - 1.24.4. Reproductive Function Regulation
- 1.25. Neuroimmunology (Relationship between the Nervous System and Immune System)
 - 1.25.1. NK Cells and Stress
 - 1.25.2. T3 and T4 Lymphocytes and Emotional Activity
 - 1.25.3. Macrophages and Their Mislocalization
 - 1.25.4. Autoimmune Response
- 1.26. Can We Talk About Psychoneuroimmunoendocrinology?
- 1.27. Neurological Structures Activated and Inhibited in Mental Disorders
- 1.28. Amygdala and Panic Attacks
- 1.29. Putamen and Tics and/or Tourette Syndrome
- 1.30. Caudate Nucleus and Obsessive Disorder
- 1.31. Cingulate and Hypochondria
- 1.32. Periaqueductal Grey Region and Petrification
- 1.33. Nucleus Accumbens and Pleasure
- 1.34. Ventral Tegmental Area and Reinforcement
- 1.35. Hypothalamus and Eating Behavior Disorders
- 1.36. Pituitary Gland and Stress
- 1.37. Map Relating Emotion to Neuroanatomical Structures
 - 1.37.1. Hypothalamic-Pituitary-Adrenal Axis with SURPRISE
 - 1.37.2. Amygdala and Periaqueductal Grey Region with FEAR
 - 1.37.3. Striatum, Hypothalamus, and Amygdala with ANGER
 - 1.37.4. Basal Ganglia, Cingulate Area, Preoptic Area, and Insula with DISGUST
 - 1.37.5. Ventral Tegmental Area and Nucleus Accumbens with JOY
 - 1.37.6. Left Caudate Nucleus, Nucleus Accumbens with CURIOSITY
 - 1.37.7. Posterior Cingulate Area, Corpus Callosum, and Prefrontal Cortex with SAFETY
 - 1.37.8. Posteromedial Cortex with ADMIRATION
 - 1.37.9. Inhibition of Brain Activity with SADNESS
 - 1.37.10. Caudate Nucleus, Cingulate, and Hippocampus with GUILT



A unique, essential and decisive learning experience to boost your professional development"

05

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.



“

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.

“

*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.

“*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 teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, 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

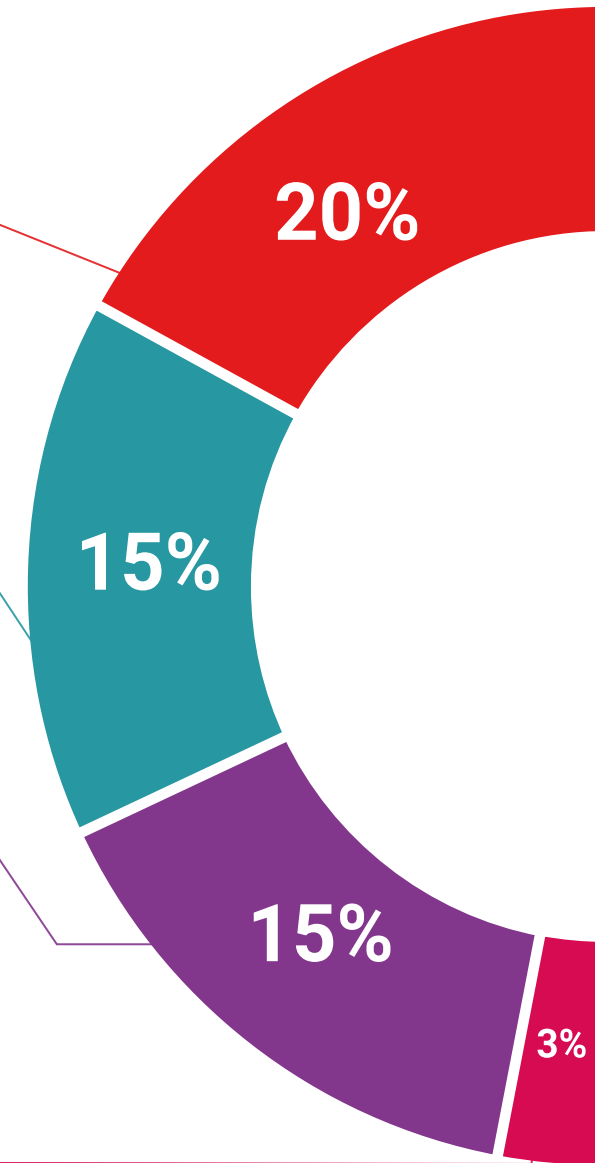
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

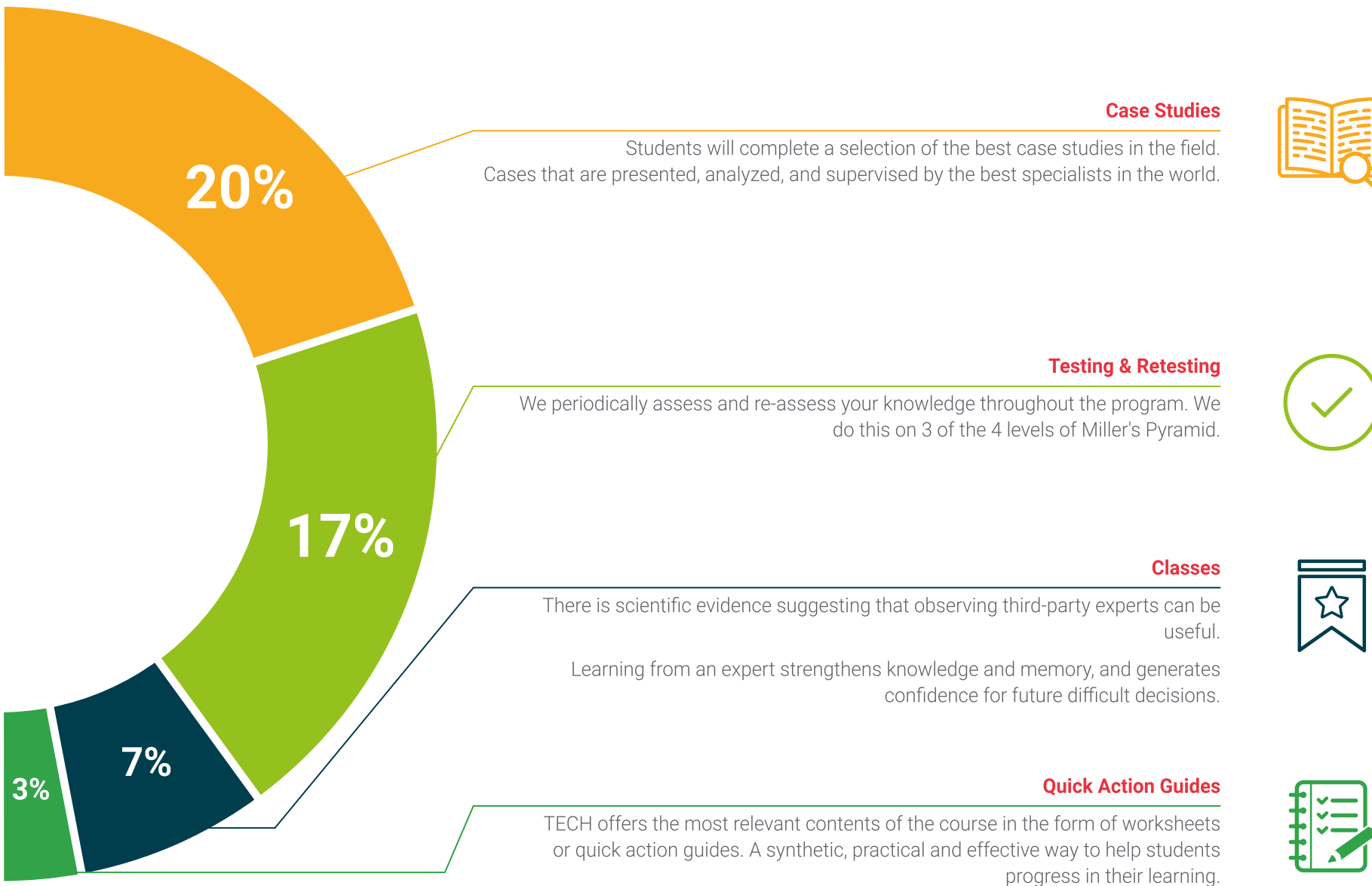
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

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





06

Certificate

The Postgraduate Diploma in Neuroanatomy for Teachers guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the Postgraduate Diploma issued by TECH Global University.



“

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 diploma for the **Postgraduate Diploma in Neuroanatomy for Teachers** 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.

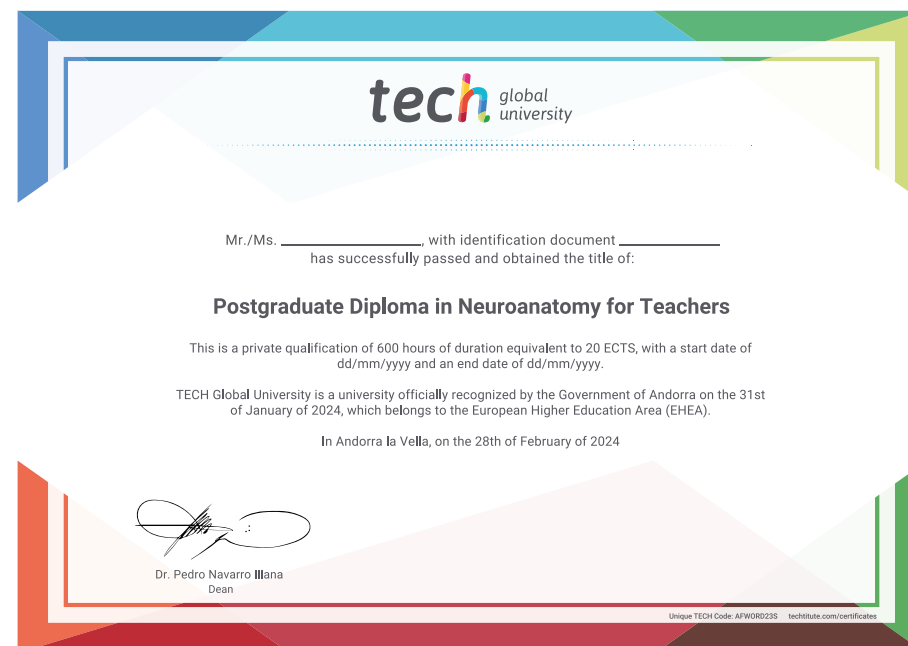
This **TECH Global University** private qualification, is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Neuroanatomy for Teachers**

Modality: **online**

Duration: **6 months**

Accreditation: **20 ECTS**





Postgraduate Diploma
Neuroanatomy
for Teachers

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 20 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Diploma

Neuroanatomy for Teachers

