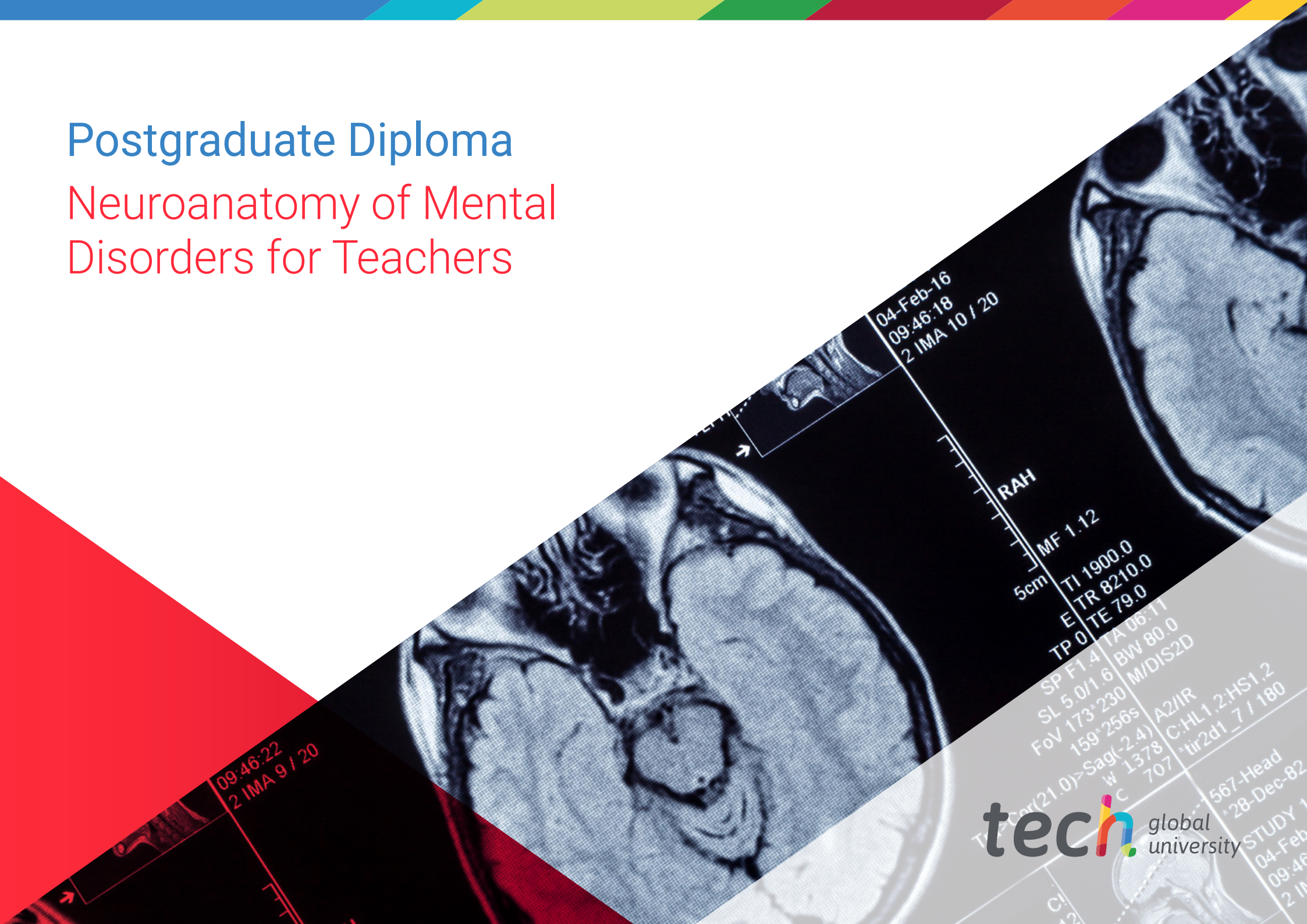


Postgraduate Diploma

Neuroanatomy of Mental Disorders for Teachers





Postgraduate Diploma

Neuroanatomy of Mental Disorders for Teachers

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 24 ECTS
- » Schedule: at your own pace
- » Exams: online

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

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01

Introduction

Working with a diverse student body and providing effective and appropriate responses to each situation means that, more and more, educators must have competencies in specific and complex areas. This Postgraduate Diploma will guide you in understanding the various mental conditions you may encounter in your profession, clearly explaining their neuroanatomy and how to approach them from a neuropsychological perspective. It is an extremely valuable tool for today's teachers



A close-up photograph of a young child's head, focusing on the ear and the side of the face. The child has short, light-colored hair and is looking downwards. The image is partially obscured by a large red diagonal shape that covers the top right and bottom right portions of the page.

“

Understanding neuroanatomy from a neuropsychological perspective is a tool that allows educators to comprehend and intervene in the various circumstances present in the classroom”

The Postgraduate Diploma in Neuroanatomy of Mental Disorders aims to be an essential and unique component in the training of today's educators. To achieve this, with a practical, hands-on approach, we will provide you with information that is both practical and useful.

This learning journey will demonstrate the involvement of subcortical and cortical structures and their interrelationship: undoubtedly, this discovery has enabled psychological treatments to be effective in pathologies and disorders that, only a few years ago, it was unthinkable could be treated using psychological technology.

For educators, this knowledge is the key to appropriate intervention and recognition, offering students the most suitable forms of assistance, rooted in a professional understanding of mental disorders.



The most advanced distance learning systems available today are at your service in a high-impact training experience"

This **Postgraduate Diploma in Neuroanatomy of Mental Disorders 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

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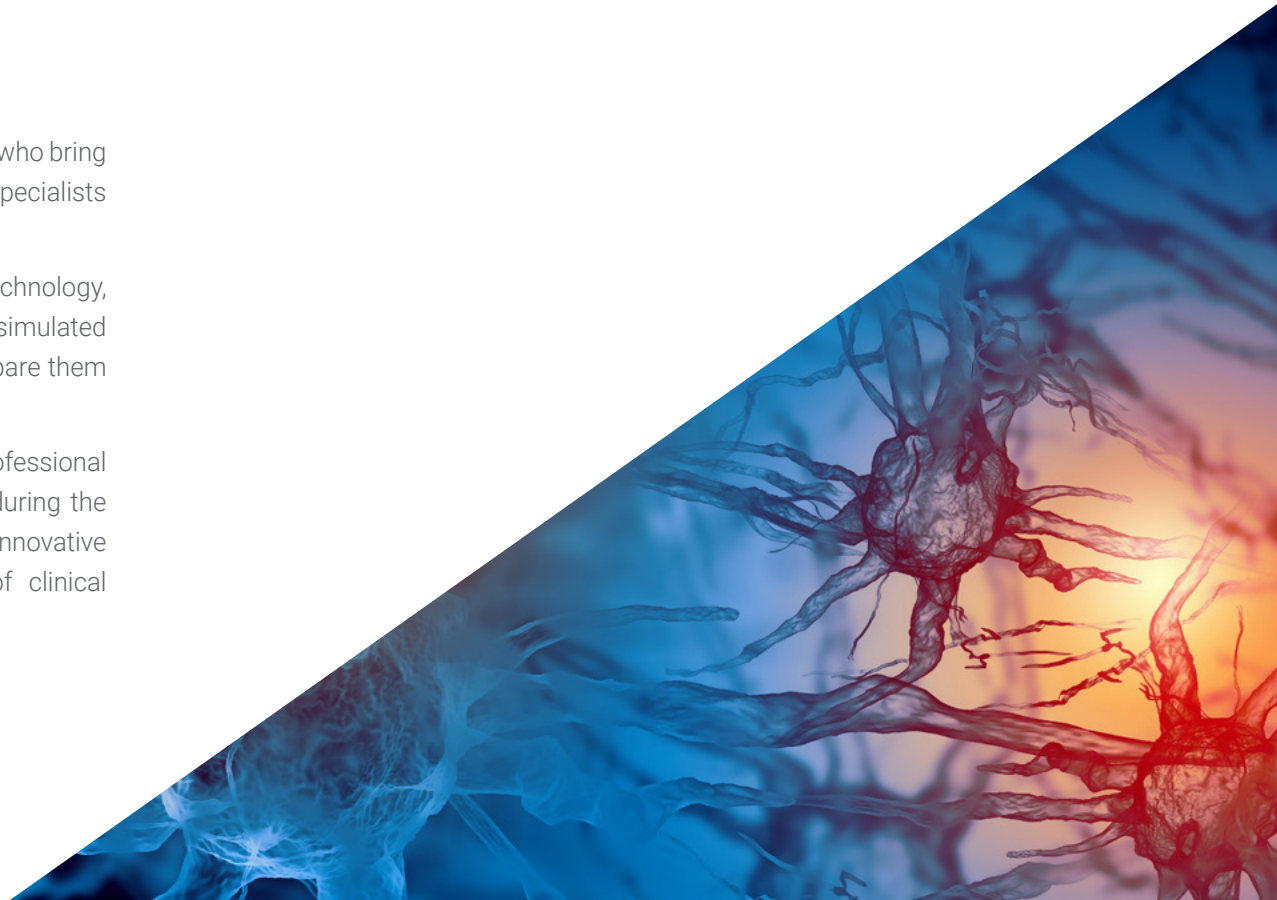
A training program designed with the most advanced educational resources to achieve a more comfortable and efficient learning experience, optimizing your effort”

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

It includes a faculty composed of professionals from the field of Psychology, who bring their work experience to this Postgraduate Diploma, alongside 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.

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. 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 activity, supported by specific knowledge in clinical neuropsychology. This translates into an ability to understand and, therefore, to intervene appropriately in the various situations encountered in the classroom, regarding how the brain functions in terms of emotions and development, aligned with the methodology of clinical neuropsychology.



“

Incorporate into your professional capacity the tools that neuroanatomy of mental disorders will provide you in working with your students, and give a high-quality boost to your CV”



General Objectives

- ♦ Explain the overall functioning of the brain, as well as the biochemistry that activates or inhibits it
- ♦ Manage brain activity as a map for mental disorders
- ♦ Develop technologies that produce changes in the brain to overcome mental illness
- ♦ Define the most common neurological disorders in psychological practice
- ♦ Describe the understanding of the relationships between the central nervous system, the endocrine system, and the immune system



Make the most of the opportunity and take the step to work with real training that provides quality learning when working with students with mental disorders"





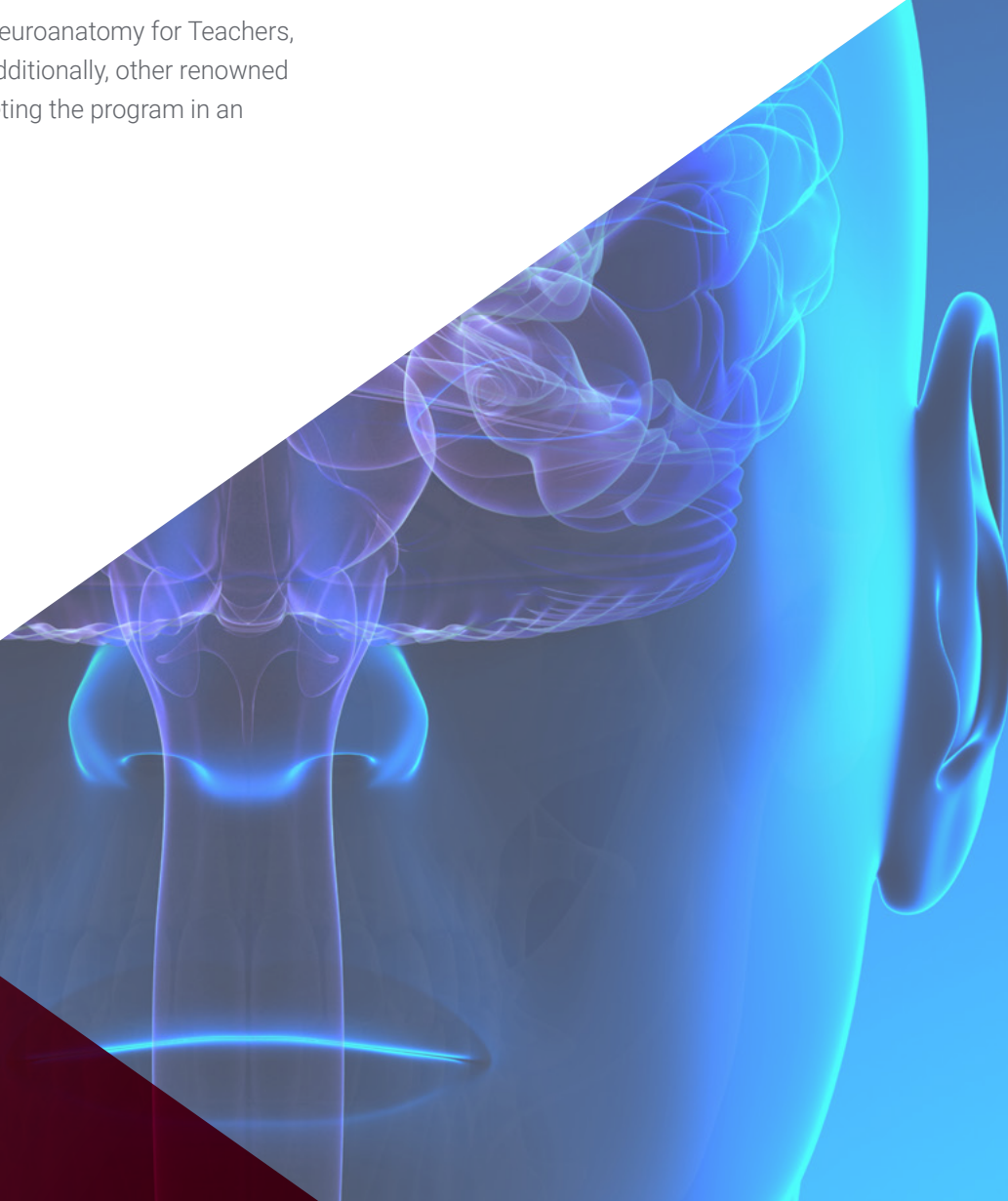
Specific Objectives

- ♦ Describe the biochemical antagonists and agonists of global brain function
- ♦ Explain the use of imaging tools in neurological research
- ♦ Explain cutting-edge scientific discoveries
- ♦ Master the psychoneurological advances involved in health and illness
- ♦ Explain how basic emotion depends on activated biochemistry and neuroanatomy
- ♦ Describe the involvement of breathing, body temperature, and heart rate in disease and health
- ♦ Manage the ascending reticular system with psychological procedures
- ♦ Discover how psychosocial elements translate into brain activity, leading to intervention in mental illness

03

Course Management

The program includes a faculty of leading specialists in Neuroanatomy for Teachers, who bring their professional experience to this training. Additionally, other renowned experts contribute to its design and development, completing the program in an interdisciplinary manner.



“

The faculty includes recognized specialists in Neuroanatomy of Mental Disorders for Teachers, who have invested all their experience and knowledge in 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
- 1.3. 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
 - 1.9.1. Amygdalas
 - 1.9.2. Hippocampus
 - 1.9.3. Hypothalamus
 - 1.9.4. Cingulum
 - 1.9.5. Sensory Thalamus
 - 1.9.6. Base Cores
 - 1.9.7. Periaqueductal Gray Region
 - 1.9.8. Pituitary Gland
 - 1.9.9. Nucleus Accumbens



- 1.10. Cerebral Cortex (Theory of Cerebral Evolution, Carter 2002)
 - 1.10.1. Parietal Cortex
 - 1.10.2. Frontal Lobes (6m)
 - 1.10.3. Limbic System (12 m)
 - 1.10.4. Language Areas: 1st Wernicke, 2nd Broca. (18 m)
- 1.11. Orbital Frontal Lobe
- 1.12. Functional Relationships of the NS with Other Organs and Systems
- 1.13. Motorneurone Transmission
- 1.14. Sensoperception
- 1.15. Neuroendocrinology (Hypothalamus-Endocrine System Relationship)
 - 1.15.1. Temperature Regulation
 - 1.15.2. Blood Pressure Regulation
 - 1.15.3. Food Ingestion Regulation
 - 1.15.4. Reproductive Function Regulation
- 1.16. Neuroimmunology (Relationship between the Nervous System and Immune System)
- 1.17. Map Relating Emotion to Neuroanatomical Structures

Module 2. Neuroanatomy and Mental Disorders

- 2.1. Relationship of Brain Chemistry and Neurological Activation
- 2.2. Reticular System and Mental Illness
 - 2.2.1. Neurotransmission Activator
 - 2.2.2. Conscious State Activator
 - 2.2.3. Sleep-Wake Cycle Activator
 - 2.2.4. Learning Activator
- 2.3. Brainstem
 - 2.3.1. Substantia Nigra
 - 2.3.2. Base Nodes
 - 2.3.3. Locus Coeruleus
 - 2.3.4. Raphe

- 2.4. Limbic Structures Involved in Mental Disorders
 - 2.4.1. Amygdalas
 - 2.4.2. Periaqueductal Gray Region
 - 2.4.3. Hypothalamus
 - 2.4.4. Caudate Nucleus
 - 2.4.5. Putamen
 - 2.4.6. Cingular Area
 - 2.4.7. Ventral Tegmental Area
 - 2.4.8. Nucleus Accumbens
 - 2.4.9. Sensory Thalamus
- 2.5. Corpus Callosum
- 2.6. Cortical Structures
 - 2.6.1. Pre-Optical Area
 - 2.6.2. Insula
 - 2.6.3. Association Areas
 - 2.6.4. Brodmann Areas
 - 2.6.5. Wernicke Area
 - 2.6.6. Broca Area
 - 2.6.7. Limbic Association Area
- 2.7. Orbital Frontal Lobe



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.

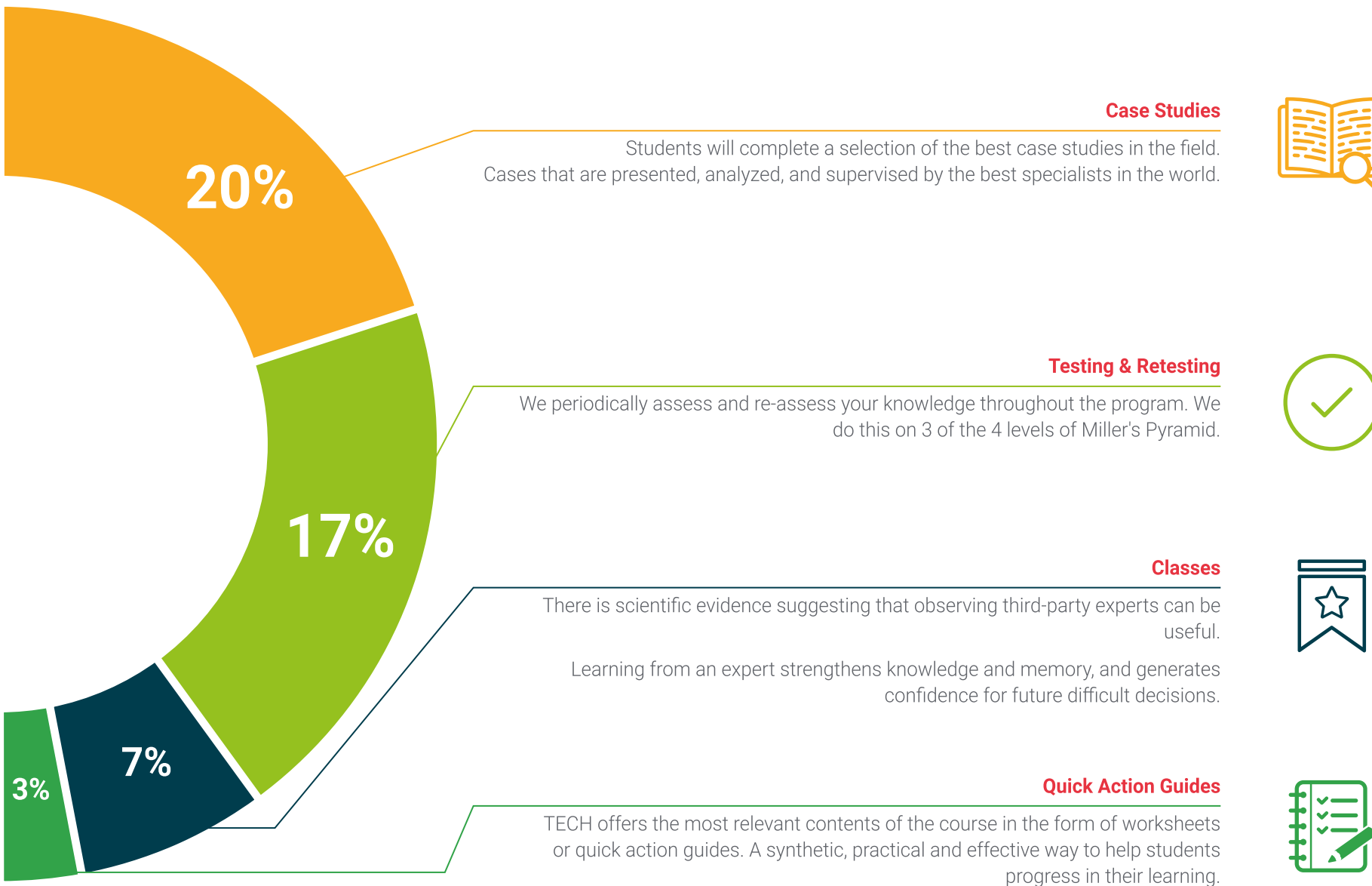
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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

This Postgraduate Diploma in Neuroanatomy of Mental Disorders 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 of Mental Disorders 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 of Mental Disorders for Teachers**

Modality: **online**

Duration: **6 months**

Accreditation: **24 ECTS**





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Disorders for Teachers

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Postgraduate Diploma

Neuroanatomy of Mental Disorders for Teachers