

Postgraduate Certificate

Cranioencephalic Trauma. Peripheral Nerve Pathology





Postgraduate Certificate

Cranioencephalic Trauma. Peripheral Nerve Pathology

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

Website: www.techtute.com/medicine/postgraduate-certificate/cranioencephalic-trauma-peripheral-nerve-pathology

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

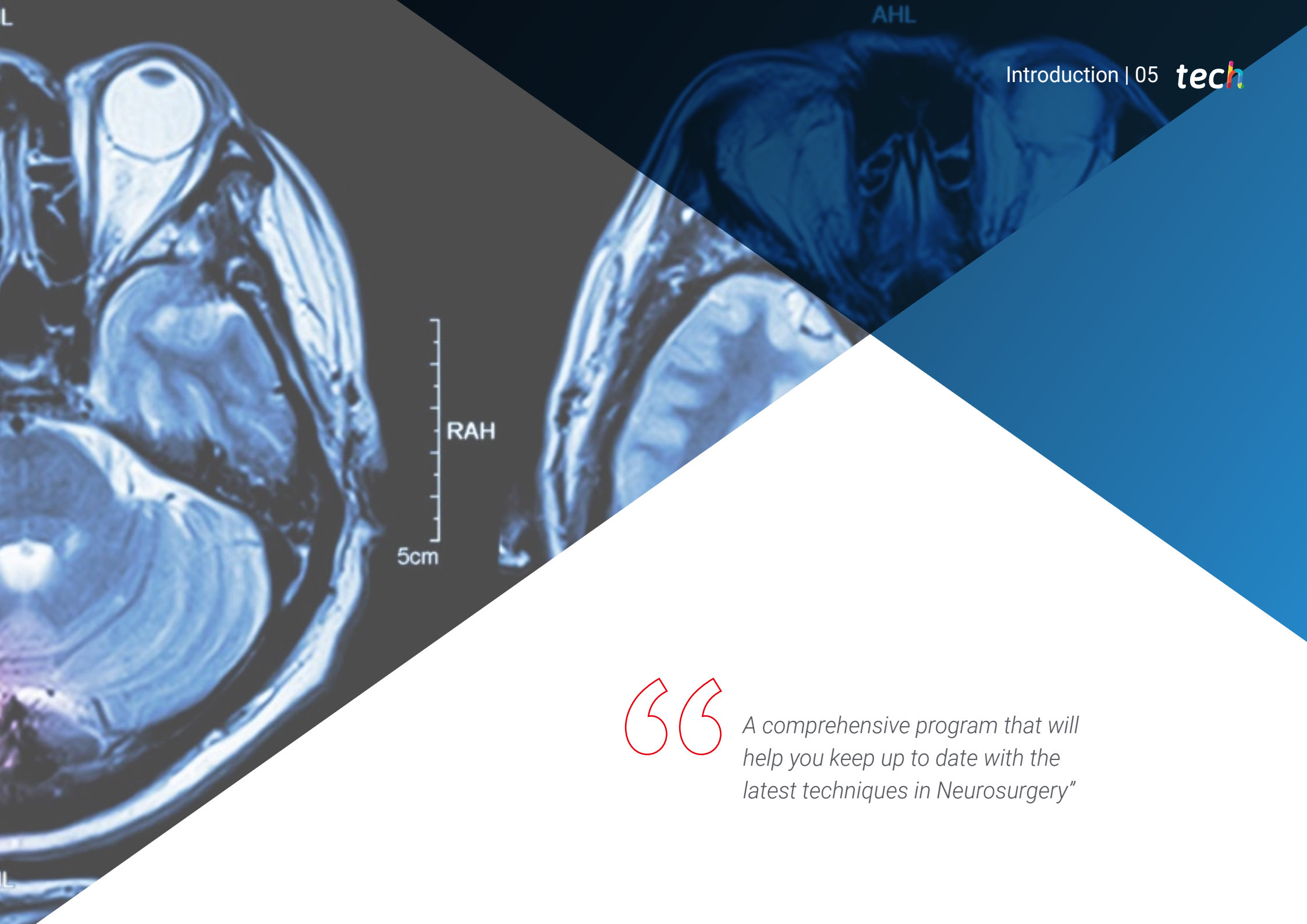
p. 30

01 Introduction

This high-level training addresses various topics related to the management of Traumatic Brain Injury (TBI), which continues to be an entity whose assistance concerns not only neurosurgery, but also involves specialists in the area of Emergency Medicine (Internal Medicine, Family Medicine) and specialists who are in charge of critical patient care units (Anesthesiology, Intensive Care Medicine).

Also, with this training you will learn the latest developments in peripheral nerve pathology from professionals with extensive experience in the sector.





“

A comprehensive program that will help you keep up to date with the latest techniques in Neurosurgery”

The Postgraduate Certificate in Cranioencephalic Trauma. Pathology of Peripheral Nerves is an updated compilation of pathologies that require study and treatment with Neurosurgery. The application of diagnostic and therapeutic algorithms enhances student learning and synthesizes the flow of information to facilitate its practical application in the student's environment.

The first topic deals with the classification of TBI and the evaluation of mild TBI, with emphasis on the diagnostic algorithms that determine the indication for radiological tests and the initial evaluation of TBI, which is mainly performed in hospital emergency departments. Interaction with intensive care specialties is essential for the correct treatment of patients with TBI; the topics of neuromonitoring and treatment of intracranial hypertension explain the most innovative techniques in the neurological monitoring of patients with TBI (also applicable to other critical neurological and neurosurgical patients), as well as the different treatments that are staggered in the therapeutic management following the latest updated reviews.

More specifically neurosurgical, the topics related to the indications for surgery in brain contusions and post-traumatic brain edema, acute epidural hematoma and cranial fractures, and acute and chronic subdural hematoma, are focused highlighting the criteria for surgical indication and prognosis according to the most recent medical literature. The high incidence of anticoagulation, especially in elderly patients, the emergence of new anticoagulant treatments and the limited scientific evidence available justify addressing it in a specific topic on TBI in anticoagulated patients, with the aim of establishing precise indications for action in this group of patients who often pose diagnostic and therapeutic dilemmas.

Finally, due to the singularities it presents, especially in relation to the high incidence in pediatric emergency services and the specificity of some entities specific to children, TBI in pediatric patients is addressed in a specific topic.

The **Postgraduate Certificate in Cranioencephalic Trauma. Peripheral Nerve Pathology** contains the most complete and up-to-date educational program on the market. The most important features include:

- ♦ Practical cases presented by experts in Neurosurgery
- ♦ The graphic, schematic, and eminently practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice.
- ♦ The latest developments in Neurosurgery
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Special emphasis on innovative methodologies in neurosurgery
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection work.
- ♦ Content that is Accessible from any Fixed or Portable device with an Internet Connection



Expand your knowledge through this Postgraduate Certificate that will allow you to specialize with a view to achieving excellence in this field"

“

*This Postgraduate Certificate's is the best investment you can make when choosing a refresher programme to expand your existing knowledge in Cranioencephalic Trauma”
Peripheral Nerve Pathology”*

The second part of the program deals with peripheral nerve pathology, and the first topic of brachial plexus injuries is directly related to the previously discussed traumatic pathology as they share etiological cause and frequently occur together. To complement the study of peripheral nerve pathology and although it is an entity that can be approached from other specialties such as Plastic Surgery or Orthopedic Surgery, the topic of peripheral nerve entrapment syndromes presents the main novelties in the treatment of this highly prevalent pathology, which can benefit from innovations applied in other branches of Neurosurgery.

For this reason, this Postgraduate Certificate is the most intensive and effective educational program on the market in this field. A high level of training that will allow you to become one of the most up-to-date professionals in the sector, in a field with a high demand for professionals

Do not hesitate to take this training with us. You will find the best teaching material with virtual lessons.

This Postgraduate Certificate 100% online course will allow you to combine your studies with your professional work while increasing your knowledge in this field.



02 Objectives

The Postgraduate Certificate in Cranioencephalic Trauma. Peripheral Nerve Pathology is oriented to facilitate the professional's performance with the latest advances and most innovative treatments in the sector.



“

Thanks to this Postgraduate Certificate you will be able to specialize in Neurosurgery and learn about the latest advances in the field”



General Objectives

- ♦ Acquire more in-depth knowledge of the speciality, with a practical approach to help professionals apply the information learned in their clinical practice, focusing on the latest diagnostic and therapeutic guidelines and the most recent scientific evidence.
- ♦ Learn the latest surgical techniques that have been implemented in recent years along with the knowledge of technological development in multiple areas of Neurosurgery

“

Train yourself for success with the help of this Postgraduate Certificate with which you will learn to develop yourself in the field of Cranioencephalic Trauma. Peripheral Nerve Pathology”





Specific Objectives

- ◆ Learn the precise diagnostic indications to correctly evaluate and classify patients with TBI from the point of view of emergency care.
- ◆ Describe and understand the usefulness of neuromonitoring systems in patients with severe TBI, and correlate the information they provide with the therapeutic algorithms applied in intensive care units.
- ◆ Acquire in-depth knowledge of the surgical indications in patients with traumatic intracranial lesions, as well as the main prognostic determinants
- ◆ Recognize the uniqueness in the management of two specific situations of patients with TBI, such as patients with anticoagulant therapy and pediatric patients.
- ◆ Learn the concepts of peripheral nerve pathology that may most frequently require neurosurgical evaluation, and the application of new technological advances to its treatment.

03

Course Management

The program includes in its teaching staff leading experts in Neurosurgery, who bring to this training the experience from their work. Additionally, other recognized experts participate in its design and preparation, completing the program in an interdisciplinary manner.



“

Leading experts in Neurosurgery have joined forces to share all their knowledge in the field with you”

Management



Dr. Fernández Carballal, Carlos

- ♦ Head of the Spinal Pathology Section. Neurosurgery Service
- ♦ Gregorio Marañón General University Hospital
- ♦ Associate Neurosurgery Professor. Faculty of Medicine. Complutense University of Madrid
- ♦ PhD in Surgery from the Autonomous University of Madrid Faculty of Medicine, obtaining the qualification of outstanding cum laude.
- ♦ Member of the Spanish Society of Neurosurgery, Member of the Neurorachis Society, Member of the Spanish Society of Functional Neurosurgery (SENE)
- ♦ Master's Degree in Medical and Clinical Management from the Spanish Distance University (UNED).
- ♦ Degree in Medicine (University of Navarra, 1999)

Professors

Mrs. García Hernando, Silvia

- ♦ Neurosurgery Department. Gregorio Marañón General University Hospital
- ♦ Degree in Medicine. Navarra University, Pamplona

Dr. Vargas López, José Antonio

- ♦ Neurosurgery Department. Torrecárdenas Hospital.
- ♦ Neurosurgery Specialist. Vithas Virgen del Mar de Almería Hospital
- ♦ Degree in Medicine. Complutense University of Madrid



04

Structure and Content

The structure of the content has been designed by the best professionals in the Neurosurgery sector, with extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed, studied, and diagnosed, and with extensive knowledge of new technologies applied to teaching.



“

The Postgraduate Certificate in Cranioencephalic Trauma. Peripheral Nerve Pathology contains the most complete and up-to-date scientific program on the market”

Module 1. Cranioencephalic Trauma. Peripheral Nerve Pathology

- 1.1. TBI Classification
 - 1.1.1. Mild TBI Evaluation
- 1.2. Neuromonitoring
- 1.3. Treatment of Intracranial Hypertension in Patients with TBI
- 1.4. Indications for Surgery in Cerebral Contusions and Post-Traumatic Cerebral Edema
- 1.5. Acute Epidural Hematoma
 - 1.5.1. Cranial Fractures
- 1.6. Post-Traumatic Subdural Hemorrhage
 - 1.6.1. Acute Subdural Hematoma
 - 1.6.2. Chronic Subdural Hematoma
- 1.7. TBI in Anticoagulated Patients
- 1.8. Cranioencephalic Trauma in Children
- 1.9. Peripheral Nerve Pathology Brachial Plexus Injuries
- 1.10. Peripheral Nerve Pathology Peripheral Nerve Entrapment Syndromes





“

*A unique, key, and decisive
training 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

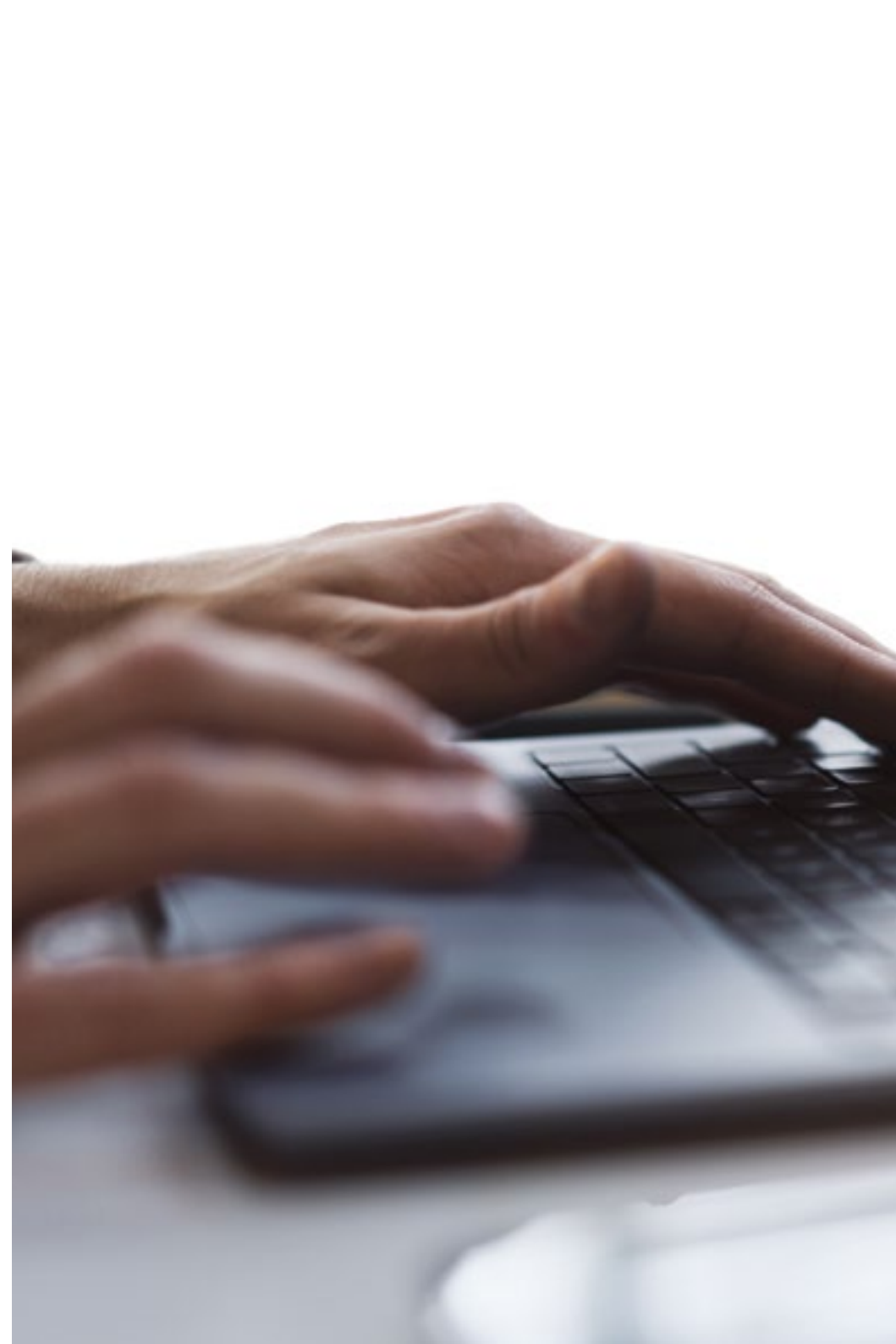
In TECH's study methodology, the student is the main protagonist.

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.

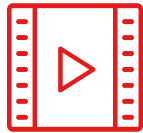
The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

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

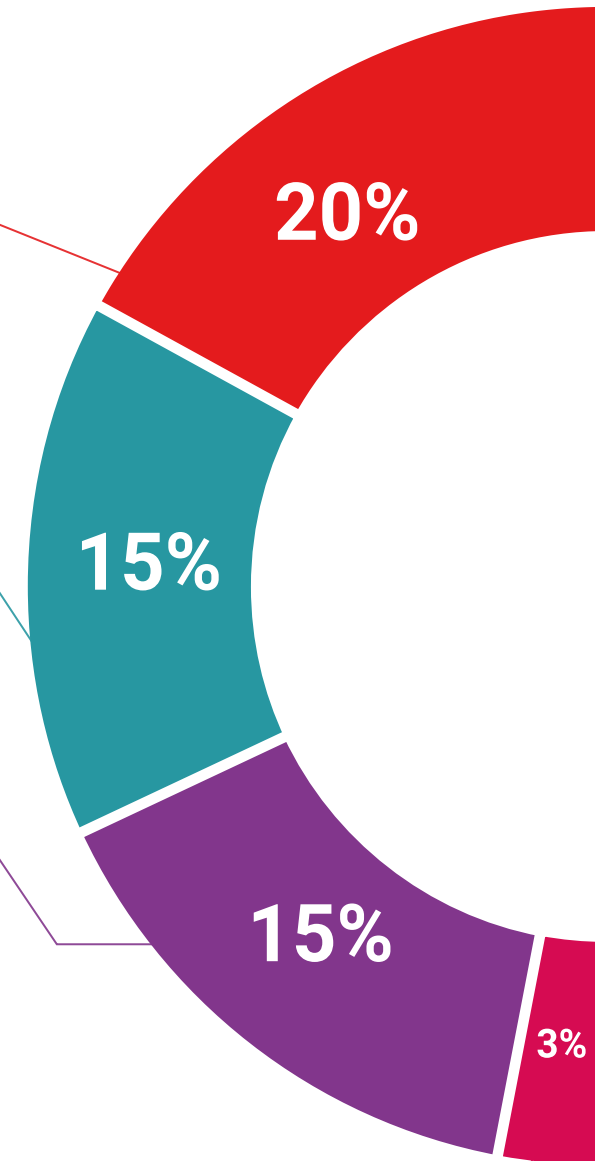
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

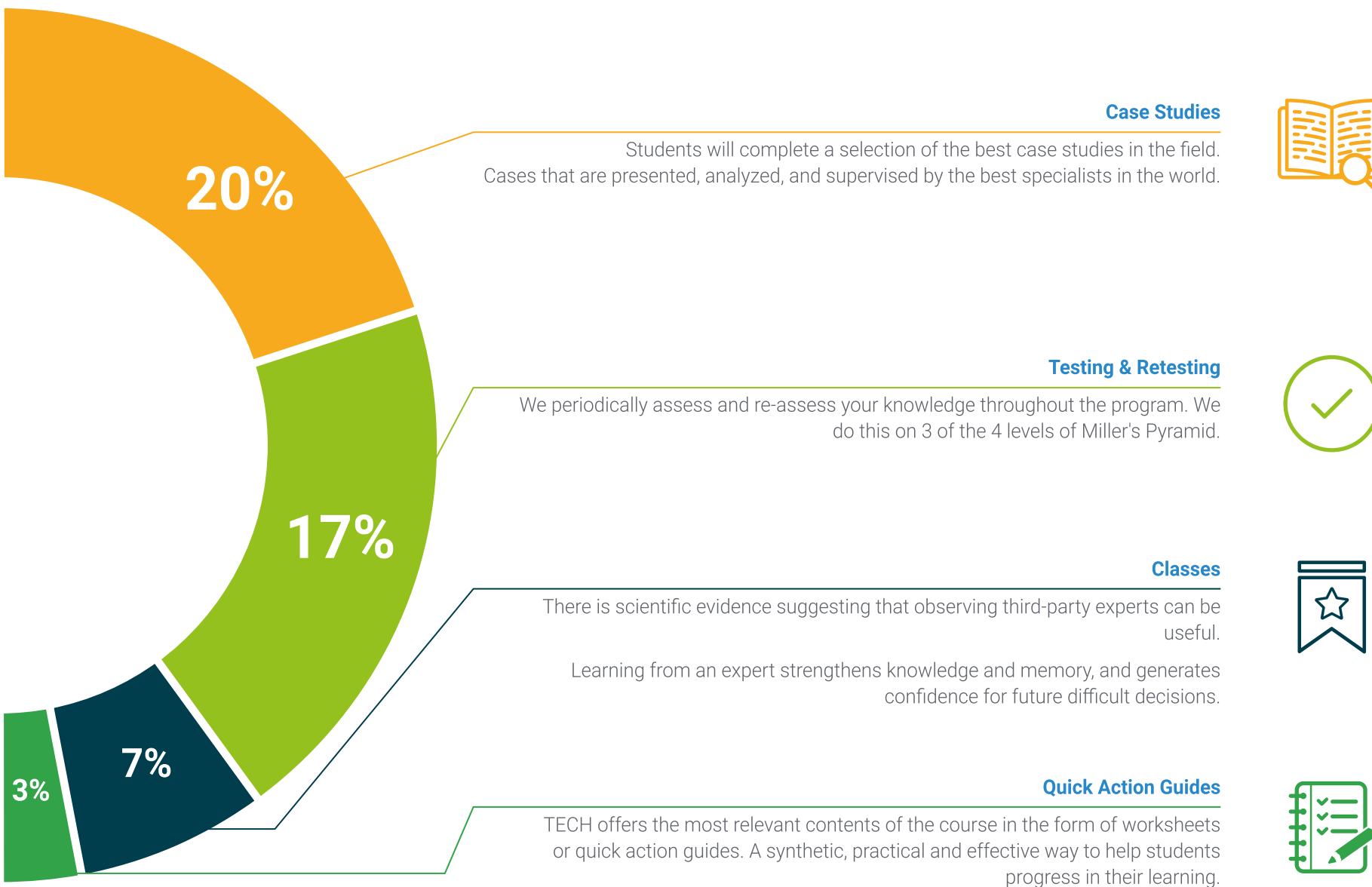
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 Certificate in Traumatic Brain Injury. Peripheral Nerve Pathology guarantees students, in addition to the most rigorous and up to date education, access to a Postgraduate Certificate issued by TECH Global University.



“

*Successfully complete this training program
and receive your university certificate without
travel or laborious paperwork”*

This private qualification will allow you to obtain a **Postgraduate Certificate in Cranioencephalic Trauma. Peripheral Nerve Pathology** 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 Cranioencephalic Trauma. Peripheral Nerve Pathology**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
online trauma
development languages
virtual classroom



Postgraduate Certificate
Cranioencephalic Trauma.
Peripheral Nerve Pathology

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

Postgraduate Certificate

Cranioencephalic Trauma. Peripheral
Nerve Pathology.