



Postgraduate Certificate Principles of

Neuroanatomy

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

 $We b site: {\color{blue}www.techtitute.com/in/psychology/postgraduate-certificate/principles-neuroanatomy}$

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tech 06 | Introduction

The management of numerous clinical cases around the world has shown that having a solid knowledge of Neuroanatomy can have a positive influence in achieving better diagnostic results and more effective treatments for patients with neurological pathologies. On the other hand, the management of information related to the anatomy of the nervous system is essential in the different surgical approaches performed daily.

That is why having a qualification such as the one offered by TECH Technological University with this Postgraduate Certificate is essential for all those psychology professionals who want to know in detail the latest developments related to this science, so they can apply them in their day to day in their practice.

This is a 100% online program with which the professional will be able to delve into the principles of Neuroanatomy, through a comprehensive approach to the formation of the central nervous system (CNS) and neurons, the different types of synapses and neurotransmitters. In addition, it will also delve into neuroendocrinology and neuroimmunology, with special emphasis on the characteristics of the CNS at different stages: from childhood and adolescence to old age.

For this, the graduate will have 150 hours of the best theoretical, practical and additional content designed by a teaching team, specialist in the area, adapted to the prestigious and effective Relearning methodology, in whose use this institution is a pioneer. Thanks to this, in less than 6 weeks you will have updated and expanded your knowledge, as well as perfected your professional skills in a guaranteed way and with the endorsement of the world's largest online university.

This **Postgraduate Certificate in Principles of Neuroanatomy** contains the most complete and up-to-date program on the market. The most important features include:

- The development of practical cases presented by experts in Psychology and Immunology
- 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 the self-assessment process can be carried out 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



A unique and accessible opportunity to increase your knowledge in relation to the composition of neurons and how they function in the CNS"



If you are looking for a program with which to learn in detail the latest scientific evidence related to the Peripheral Nervous System, enroll in this Postgraduate Certificate and you will achieve it"

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

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. For this purpose, students will be assisted by an innovative interactive video system developed by renowned experts.

Thanks to its convenient 100% online format, you can update your knowledge at any time and from the place of your choice.

A convenient and accessible option to delve into the latest developments in the formation of the nervous system and its main structures.







tech 10 | Objectives



General Objectives

- Know in detail the principles of Neuroanatomy, delve into the formation of the nervous system and its anatomical and functional organization
- Acquire a thorough knowledge of the main tools of this science, as well as the advantages and disadvantages of their use



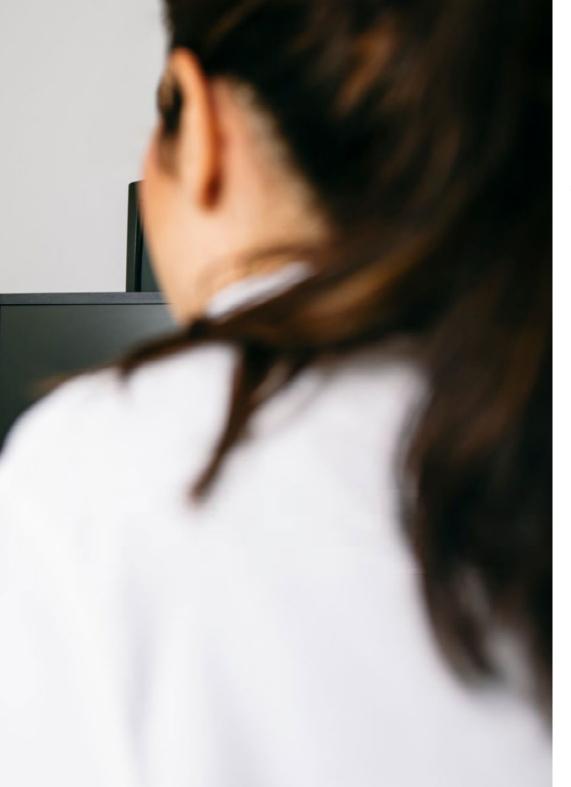


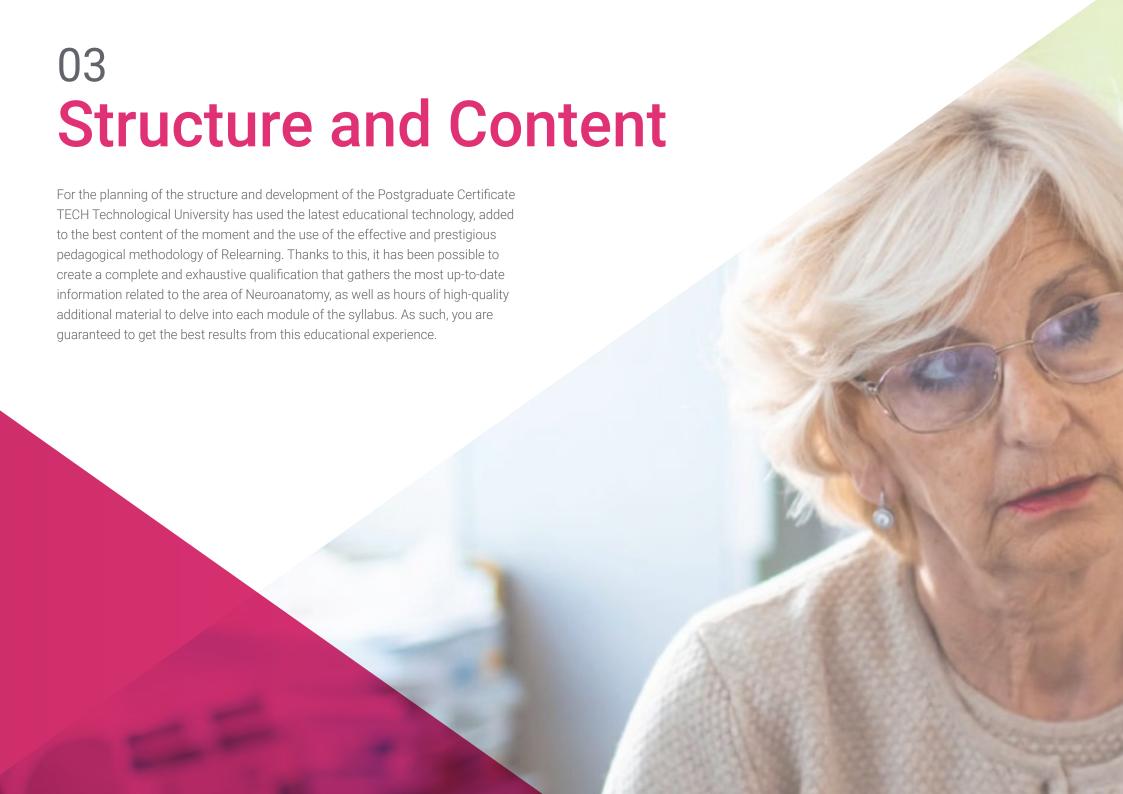
Specific Objectives

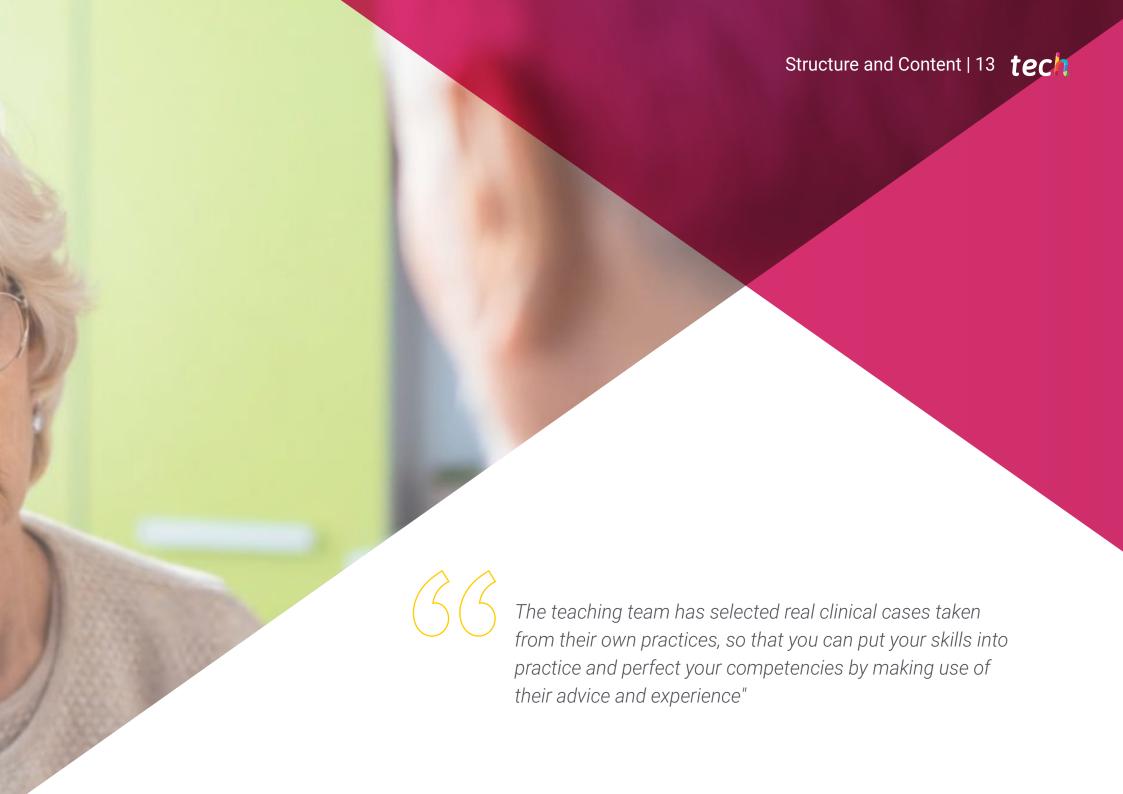
- Know the origins and the evolutionary process of the nervous system
- Obtain a general vision on the formation of the nervous system
- Know the fundamental basics of Neuroanatomy



A perfect educational plan to balance it with any other professional or academic activity without losing sight of your professional goals"



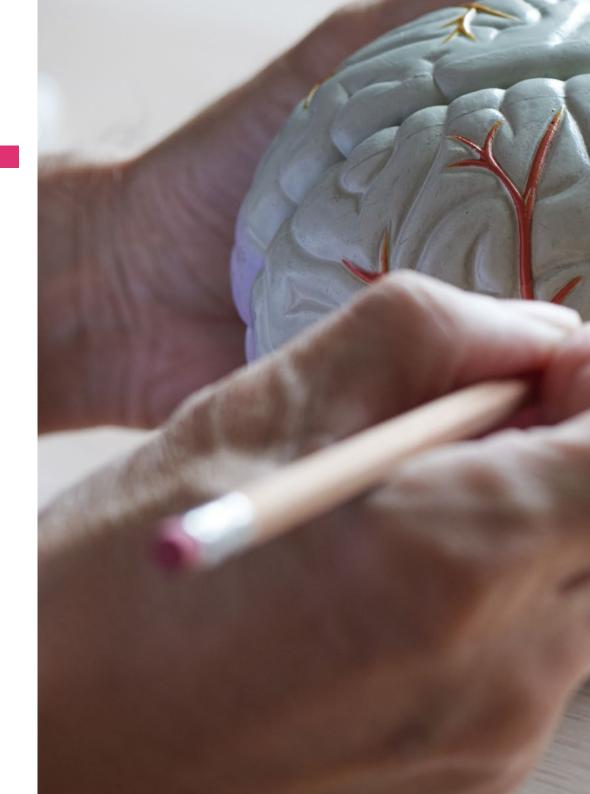




tech 14 | Structure and Content

Module 1. Principles of Neuroanatomy

- 1.1. Formation of the Nervous System
 - 1.1.1. Anatomical and Functional Organization of the Nervous System
 - 1.1.2. Neurons
 - 1.1.3. Glial Cells
 - 1.1.4. Central Nervous System: Brain and Spinal Cord
 - 1.1.5. Main Structures
 - 1.1.5.1. Forebrain
 - 1.1.5.2. Midbrain
 - 1.1.5.3. Rhombencephalon
- 1.2. Formation of the Nervous System II
 - 1.2.1. Peripheral Nervous System
 - 1.2.1.1. Somatic Nervous System
 - 1.2.1.2. Neurovegetative or Autonomic Nervous System
 - 1.2.1.3. White Matter
 - 1.2.1.4. Gray Matter
 - 1.2.1.5. Meninges
 - 1.2.1.6. Cerebrospinal Fluid
- 1.3. The Neurone and its Composition
 - 1.3.1. Introduction to the Neurone and its Function
 - 1.3.2. The Neurone and its Composition
- 1.4. Electric and Chemical Synapses
 - 1.4.1. What is a Synapse?
 - 1.4.2. Electrical Synapse
 - 1.4.3. Chemical Synapse
- 1.5. Neurotransmitters
 - 1.5.1. What is a Neurotransmitter?
 - 1.5.2. Types of Neurotransmitters and their Functioning





Structure and Content | 15 tech

- 1.6. Neuroendocrinology (Hypothalamus-Endocrine System Relationship)
 - 1.6.1. Introduction to Neuroendocrinology
 - 1.6.2. Basis of Neuroendocrinological Functioning
- 1.7. Neuroimmunology (Relationship between the Nervous System and Immune System)
 - 1.7.1. Introduction to Neuroimmunology
 - 1.7.2. Basis and Fundamentals of Neuroimmunology
- 1.8. Nervous System in Childhood and Adolescence
 - 1.8.1. Development of CNS
 - 1.8.2. Bases and Characteristics
- 1.9. Nervous System in Adulthood
 - 1.9.1. Bases and Characteristics of the CNS
- 1.10. Nervous System in Old Age
 - 1.10.1. Bases and Characteristics of the CNS in Old Age
 - 1.10.2. Main Related Problems



Enroll now and do not miss this great opportunity to grow as a professional in Neuroanatomy with TECH and this Postgraduate Certificate"



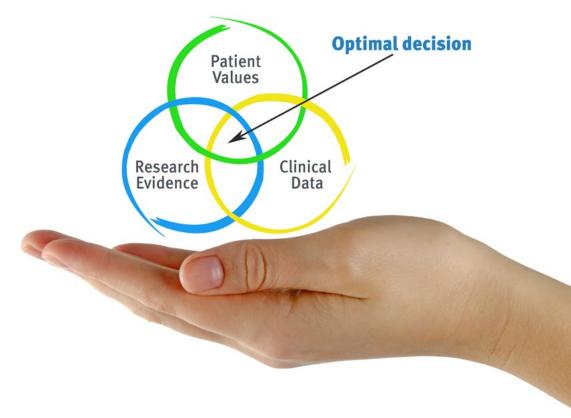


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At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH the psychologist experiences a way of learning that is shaking the foundations of traditional universities around the world.



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the psychologist's professional practice.



Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method"

The effectiveness of the method is justified by four fundamental achievements:

- 1. Psychologists who follow this method not only master the assimilation of concepts, but also develop their mental capacity by means of exercises to evaluate real situations and apply their knowledge.
- 2. Learning is solidly translated into practical skills that allow the psychologist to better integrate knowledge into clinical practice.
- 3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
- 4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



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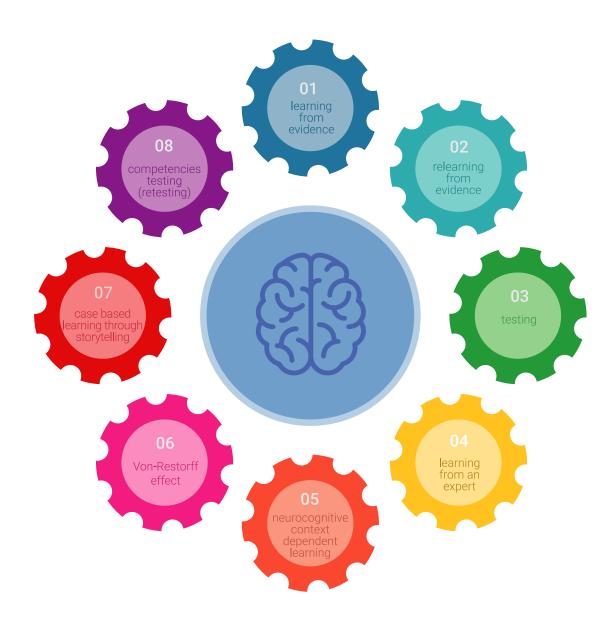
Relearning Methodology

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.



Methodology | 21 tech

At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

This methodology has trained more than 150,000 psychologists with unprecedented success in all clinical specialties. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.

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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

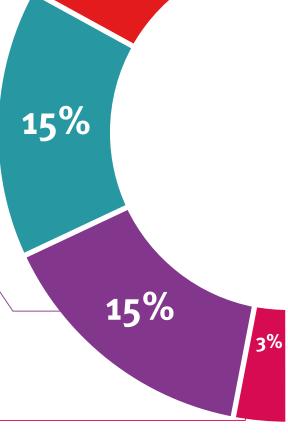
TECH introduces students to the latest techniques, to the latest educational advances, to the forefront of current psychology. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times 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

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.

and direct way to achieve the highest degree of understanding.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

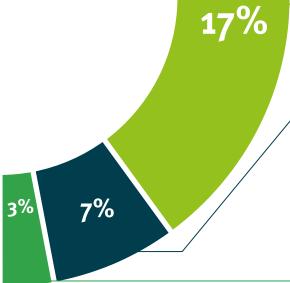




Quick Action Guides

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.





20%





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This **Postgraduate Certificate in Principles of Neuroanatomy** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: Postgraduate Certificate in Principles of Neuroanatomy
Official N° of Hours: **150 h**.



POSTGRADUATE CERTIFICATE

in

Principles of Neuroanatomy

This is a qualification awarded by this University, equivalent to 150 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro

s qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each coun

e TECH Code: AFWORD23S techtitute.com/cen

^{*}Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.



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