

Postgraduate Certificate

Principles of Cognitive Functions





Postgraduate Certificate

Principles of Cognitive Functions

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/principles-cognitive-functions

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01

Introduction

The scientific advances produced in recent years thanks to the study of cognitive functions have improved the quality of life of many people. Studies that have influenced social cognition, visuospatial skills, gnosias and executive functions. These advances make it necessary to update knowledge by the medical professional regarding diagnostic techniques and applied treatments. This program was born from this need, whose main goal is to offer students the most recent content in this area, thanks to the work of the teaching team that teaches this degree.





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A 100% online program with which you can be aware of the most recent studies on cognitive functions”

The processes of reception, selection, transformation, storage, preparation and retrieval of information make it possible for the person to have an active role and can perform any task in their daily practice. This Postgraduate Certificate delves, through an exhaustive agenda, in the cognitive functions that allow these mental processes. The teaching team that makes up this degree will be in charge of to transmit to medical professionals his extensive knowledge in this field.

A program in which the professional will find all the information that will allow him to update himself on everything related to this area. A degree in an exclusive online modality, where the specialist will be able to comfortably delve into the different neurobiological bases, their characteristics and types.

During the 6 weeks of this Diploma, the professional you will delve into a syllabus with a theoretical-practical approach which will lead you to delve into the neurobiological bases and foundations of attention, memory, language, perception, visuospatial or executive functions. Likewise, this program will also delve into the characteristics and types of praxias and gnosias. The simulation of practical cases provided by the teaching staff will also be very useful in their usual clinical practice.

Therefore, TECH Technological University offers an excellent opportunity to the medical professional who wishes to pursue quality education at the same time that makes it compatible with other areas of your life. Due to the above, students have the entire syllabus from the start and can access it whenever and wherever they want. You only need a laptop or *Tablet* with an internet connection to be able to connect to the platform where the innovative multimedia content is hosted. At the same time, the *Relearning* system, used by this educational institution in all their degrees, will facilitate progress in this program in a more natural way, even reducing the long hours of study applied in other methodologies teaching.

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

- ◆ The development of practical cases presented by experts in Psychology and Neurology
- ◆ 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 work
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



In just 6 weeks, renew your knowledge in cognitive functions while making it compatible with your work"

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Delves into the neurobiological bases of memory, language or perception through didactic material that uses the latest technology”

The program's teaching staff includes professionals from sector who contribute their work experience to this 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 designed to learn in real situations.

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

A perfect university education to delve into the neurobiological bases of executive functions.

The Relearning system will allow you to progress in a more natural and effective way through this Postgraduate Certificate.



02 Objectives

This Postgraduate Certificate was made with the intention of offering students the most up-to-date and detailed knowledge about cognitive functions. Thus, at the end of this program, the medical professional will have renewed their knowledge about the neurobiological bases of cognitive functions, as well as the principles and origins of cognitive functions. The teaching team will provide all the educational tools available for the students to achieve their goals.





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This Postgraduate Certificate will allow you to fulfill your desire to recycle your knowledge about the neurobiological bases of cognitive functions”



General Objectives

- ◆ Provide the graduate with the most innovative academic tools that allow them to know in detail the latest developments related to cognitive functions
- ◆ Improve their professional competencies and skills through the practical resolution of real clinical cases taken from the practices of practicing professionals





Specific Objectives

- ◆ Know the most important cognitive functions
- ◆ Know and contextualize the neurobiological principles of the cognitive functions
- ◆ Know the principles and origins of cognitive functions

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Delve into the principles of cognitive functions with this 100% online degree”

03

Course Management

TECH is continually committed to academic excellence. For this reason, each of its programs has teaching teams of the highest reputation. These experts have extensive experience in their professional fields and, at the same time, have achieved significant results with their empirical research and fieldwork. In addition, these specialists play a leading role within the university qualification, as they are in charge of selecting the most up-to-date and innovative content to be included in the syllabus. In addition, they participate in the elaboration of numerous multimedia resources of high pedagogical rigor.





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A unique training experience, key and decisive to boost your professional development"

International guest conductor

Dr. Steven P. Woods is a leading neuropsychologist, internationally recognized for his outstanding contributions to improving clinical detection, prediction and treatment of real-world health outcomes in diverse neuropsychological populations. He has forged an exceptional career path, which has led him to publish over 300 articles and serve on editorial boards in 5 major Clinical Neuropsychology journals.

His excellent scientific and clinical work focuses primarily on the ways in which cognition can hinder and support daily activities, health and well-being in adults with chronic medical conditions. Other areas of scientific relevance, for this expert, also include health literacy, apathy, intra-individual variability and internet navigation skills. His research projects are funded by the National Institute of Mental Health (NIMH) and the National Institute on Drug Abuse (NIDA).

In this regard, Dr. Woods' research approach explores the application of theoretical models to elucidate the role of neurocognitive deficits (e.g., memory) in everyday functioning and health literacy in people affected by HIV and aging. In this way, his interest focuses, for example, on how people's ability to "Remember to Remember", the so-called prospective memory, influences health-related behaviors, such as medication adherence. This multidisciplinary approach is reflected in his groundbreaking research, available on Google Scholar and ResearchGate.

He has also founded the Clinical Neuropsychology Service at Thomas Street Health Center, where he holds a senior position as Director. Here, Dr. Woods provides Clinical Neuropsychology services to people affected by HIV, providing critical support to communities in need and reaffirming his commitment to the practical application of his research to improve lives.



Dr. Woods, Steven P

- Founder and Director of the Clinical Neuropsychology Service at the Thomas Street Health Center
- Collaborator in the Department of Psychology, University of Houston
- Associate Editor at Neuropsychology and The Clinical Neuropsychologist
- Ph.D. in Clinical Psychology, with a specialization in Neuropsychology, Norfolk State University
- B.S. in Psychology, Portland State University
- Member of:
 - National Academy of Neuropsychology
 - American Psychological Association (Division 40, Society for Clinical Neuropsychology)

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Thanks to TECH, you will be able to learn with the best professionals in the world”

04

Structure and Content

TECH uses the latest technology applied to education in its programs to offer students a more dynamic and agile program, but without losing the rigor required by the most up-to-date scientific knowledge in each sector. Also, it implements the *Relearning* system, you will be that allow to reduce the long hours of study normally spent in other methodologies. The medical professional who takes this course will therefore have before them an exhaustive syllabus, with enriching multimedia content and real clinical cases that will help them to update their knowledge in a rigorous and enjoyable way.



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Do you have a computer or tablet? With these devices you will be able to access the most up-to-date Diploma in the field of cognitive functions 24 hours a day”

Module 1. Cognitive Functions

- 1.1. Neurological Principles of Attention
 - 1.1.1. Introduction to the Concept of Attention
 - 1.1.2. Neurobiological Principles and Foundations of Attention
- 1.2. Neurobiological Principles of Memory
 - 1.2.1. Introduction to the Concept of Memory
 - 1.2.2. Neurobiological Principles and Foundations of Memory
- 1.3. Neurological Principles of Language
 - 1.3.1. Introduction to the Concept of Language
 - 1.3.2. Neurobiological Principles and Foundations of Language
- 1.4. Neurobiological Principles of Perception
 - 1.4.1. Introduction to the Concept of Perception
 - 1.4.2. Neurobiological Principles and Foundations of Perception
- 1.5. Visuospatial Neurobiological Principles
 - 1.5.1. Introduction to Visuospatial Functions
 - 1.5.2. Principles and Fundamentals of Visuospatial Functions
- 1.6. Neurobiological Principles of Executive Functions
 - 1.6.1. Introduction to Executive Functions
 - 1.6.2. Principles and Fundamentals of Executive Functions
- 1.7. Apraxias
 - 1.7.1. What are Praxis?
 - 1.7.2. Features and Types
- 1.8. Gnosis
 - 1.8.1. What are Praxis?
 - 1.8.2. Features and Types
- 1.9. Social Cognition
 - 1.9.1. Introduction to Social Cognition
 - 1.9.2. Characteristics and Theoretical Foundations





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Access a program that will allow you to delve more quickly into the different types of praxias and gnosias”

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.





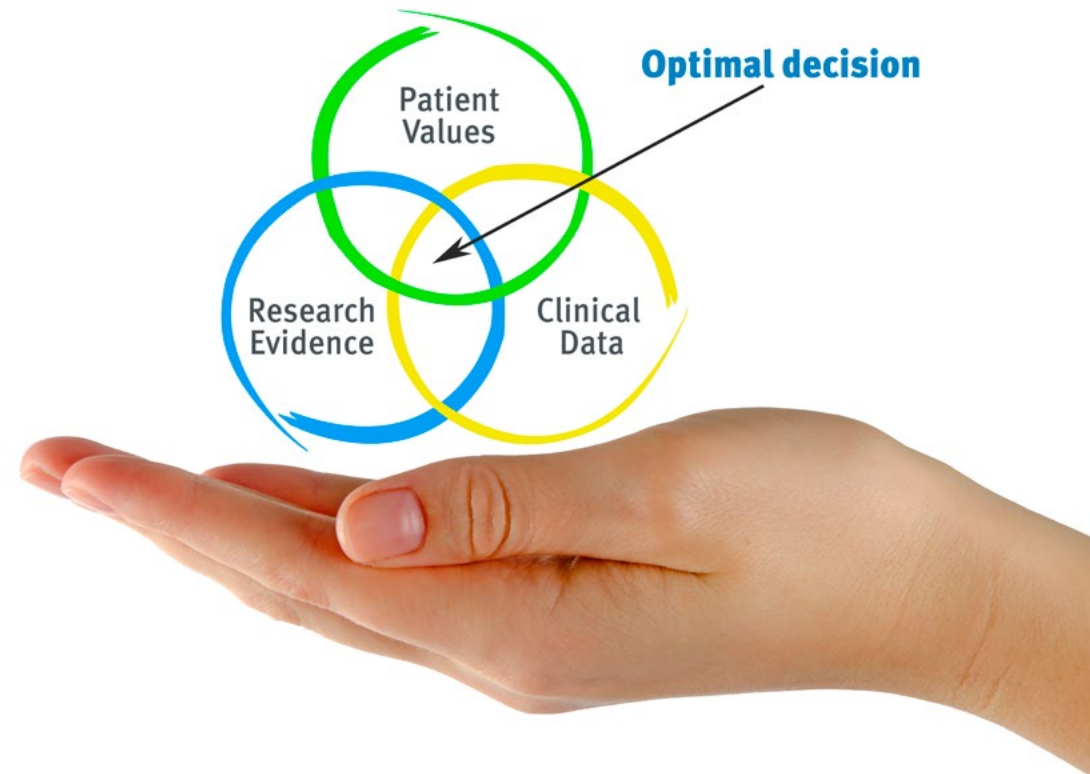
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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

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 you will experience 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 physician'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. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate 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.



Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This 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, a real revolution with respect to the mere study and analysis of cases.

Professionals will learn through real cases and by resolving 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).

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. 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.

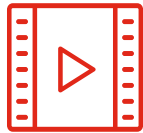
Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

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 TECH's 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.



Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. 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

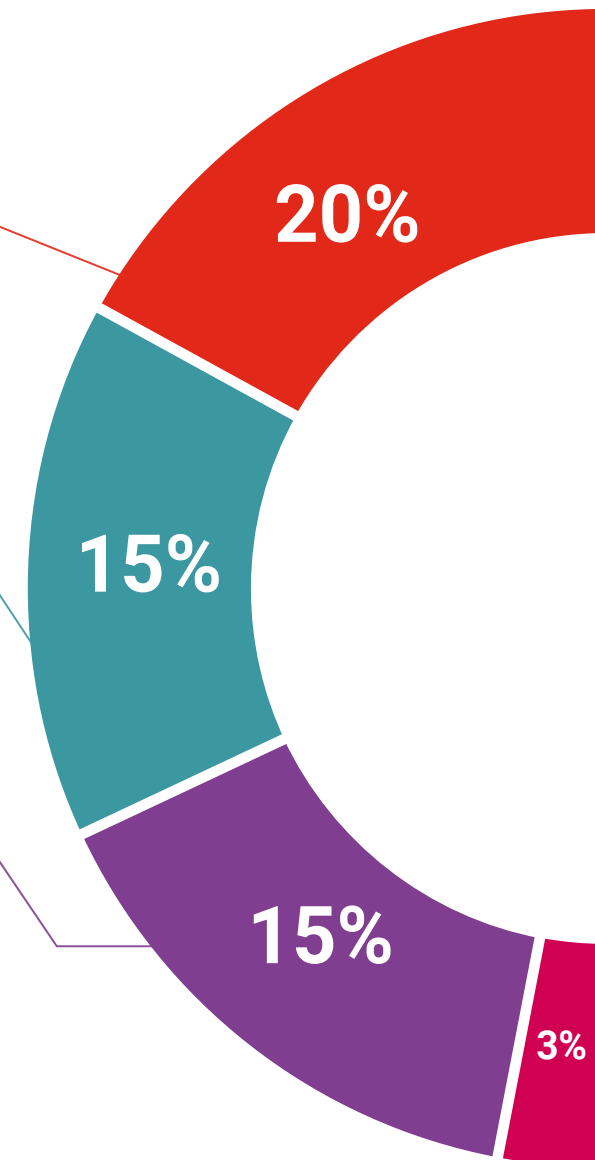
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

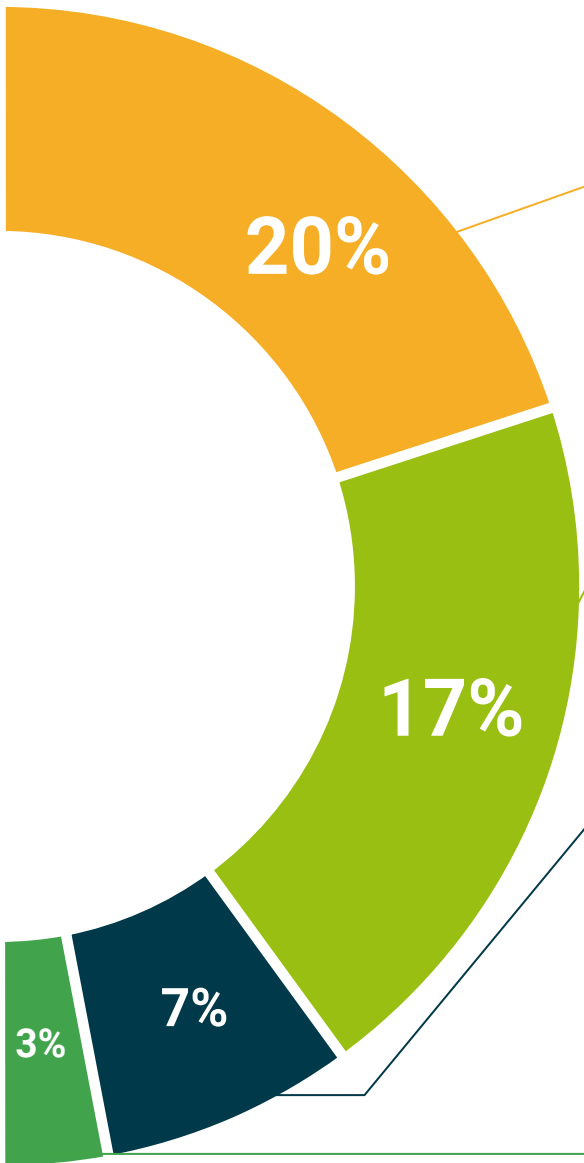
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 on the usefulness of learning by observing experts. The system known as 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 Principles of Cognitive Functions guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Principles of Cognitive Functions** contains the most complete and up-to-date scientific 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 diploma 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 Cognitive Functions**

Official N° of hours: **150 h.**



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

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



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