

# Postgraduate Certificate Pharmacological Treatments



## Postgraduate Certificate Pharmacological Treatments

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 8h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/medicine/postgraduate-certificate/pharmacological-treatments](http://www.techtute.com/us/medicine/postgraduate-certificate/pharmacological-treatments)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Dirección de curso

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 24*

06

Certificate

---

*p. 16*

# 01

# Introduction

The use of certain pharmacological treatments with patients who suffer from some type of difficulty in cognitive development has also shown its effectiveness combined with therapeutic treatments. Progress in this field entails the need to have highly qualified medical professionals who are aware of all the advances that occur in this regard. To answer to this demand, this program, taught 100% online, has emerged. A program where students will update their knowledge with an advanced and innovative syllabus, which will nonetheless allow them to maintain their activity in other areas of their life.





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*Thanks to this university program, you will be aware of the latest advances in the use of pharmacological treatments with patients suffering from certain disorders”*

The continuous debate on the use of certain pharmacological treatments in patients suffering from deficits in their cognitive development has always been present, but recent scientific studies are shedding light on the specialists who must attend people with certain characteristics. This Postgraduate Certificate delves into the use of pharmacological treatments through a syllabus made up of multimedia didactic material, which uses the latest technology applied to education.

A program taught by a specialized teaching team that will provide the medical professional with a renewal of their knowledge throughout the 6 weeks of this university program. During this period, students will be able to delve into the mechanisms of action, side effects and contraindications of treatments with antidepressants, antipsychotics, anxiolytics and hypnotics, mood stabilizers, psychostimulants or antimentia drugs. The simulations of clinical cases provided by the teaching staff will be very useful for their direct application in the daily consultations of the medical professional.

A university program that represents an excellent opportunity for professionals who want to comfortably recycle their knowledge. To take this 100% online program, students only need an electronic device with an Internet connection with which they can connect to the virtual platform, where the entire syllabus of this Postgraduate Certificate is hosted. In this way, professionals will be able to distribute the study load according to the availability of their time, making it compatible with their work and/or personal responsibilities. A program without face-to-face, or fixed schedules, which provides advanced knowledge while granting flexibility.

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

- ♦ Practical cases presented by experts in Psychology
- ♦ 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 for 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 Relearning system will allow you to acquire intensive recycling on pharmacological treatments in a much more agile way”*

“

*Across the 150 class hours of this university program, you will be able to recycle your knowledge about the most used drugs for the treatment of dependencies”*

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’s design focuses on Problem-Based Learning, through which the professional must try to solve the different professional practice situations that arise during the academic program. For this purpose, it will be aided by an innovative system of interactive videos produced by renowned experts.

*Delves into the side effects of antiepileptic drugs, antidepressants or mood stabilizers through a syllabus with multimedia resources.*

*Access from and when you want to a Postgraduate Certificate that offers you the update you were looking for.*



# 02 Objectives

This Postgraduate Certificate sets updating by medical professionals of their knowledge in pharmacological treatments as its main goal. In order to achieve this objective, TECH puts all the educational tools it has at your disposal so that students can delve throughout the 150 class hours of this degree in the fundamentals of psychopharmacological therapy, the different types of psychoactive drugs and their use. The specialized teaching team will pour all their knowledge into this area so that professionals achieves the renewal of knowledge that they are looking for.





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*Delve into the indications and contraindications antidepressants, antipsychotics or anxiolytics”*



## General Objectives

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- Develop a broad and up-to-date knowledge of the different pharmacological treatments that are having better results today and which are applicable to clinical neuropsychology
- Delve into the pharmacological recommendations, as well as their advantages and disadvantages depending on the patient and the pathology they suffer from





## Specific Objectives

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- Know and learn about the basics and foundations of psychopharmacology
- Know and classify the different types of psychopharmaceuticals
- Know and contextualize the different uses of psychopharmacological therapy

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*You are faced with a program where you will delve into the different uses of psychopharmacological therapy”*

# 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

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- 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

The syllabus of this Postgraduate Certificate is the result of the effort and perseverance of a specialized teaching team that seeks to offer the most exhaustive and updated knowledge in the field of pharmacology used in patients with certain disorders or with deficits in cognitive development. A study plan that is made up of video summaries, interactive diagrams, detailed videos, essential readings and real clinical cases so that students renew their knowledge in a dynamic and enjoyable way. The Relearning system, which TECH uses in its programs, will allow students to progress through their course in a more natural and progressive way.





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*A Postgraduate Certificate that provides multimedia resources that are available 24 hours a day”*

## Module 1. Pharmacological Treatment

- 1.1. Introduction to Psychopharmacology
  - 1.1.1. Principles and Introduction to Psychopharmacology
  - 1.1.2. General Principles of Psychopharmacological Treatment
  - 1.1.3. Main Applications
- 1.2. Antidepressants
  - 1.2.1. Introduction
  - 1.2.2. Types of Antidepressants
  - 1.2.3. Mechanism of Action
  - 1.2.4. Indications
  - 1.2.5. Drugs of the Group
  - 1.2.6. Dosage and Forms of Administration
  - 1.2.7. Side Effects
  - 1.2.8. Contraindications
  - 1.2.9. Drug Interactions
  - 1.2.10. Patient Information
- 1.3. Antipsychotics
  - 1.3.1. Introduction
  - 1.3.2. Types of Antipsychotics
  - 1.3.3. Mechanism of Action
  - 1.3.4. Indications
  - 1.3.5. Drugs of the Group
  - 1.3.6. Dosage and Forms of Administration
  - 1.3.7. Side Effects
  - 1.3.8. Contraindications
  - 1.3.9. Drug Interactions
  - 1.3.10. Patient Information
- 1.4. Anxiolytics and Hypnotics
  - 1.4.1. Introduction
  - 1.4.2. Types of Anxiolytics and Hypnotics
  - 1.4.3. Mechanism of Action
  - 1.4.4. Indications
  - 1.4.5. Drugs of the Group
  - 1.4.6. Dosage and Forms of Administration
  - 1.4.7. Side Effects
  - 1.4.8. Contraindications
  - 1.4.9. Drug Interactions
  - 1.4.10. Patient Information
- 1.5. Mood Stabilizers
  - 1.5.1. Introduction
  - 1.5.2. Types of Mood Stabilizers
  - 1.5.3. Mechanism of Action
  - 1.5.4. Indications
  - 1.5.5. Drugs of the Group
  - 1.5.6. Dosage and Forms of Administration
  - 1.5.7. Side Effects
  - 1.5.8. Contraindications
  - 1.5.9. Drug Interactions
  - 1.5.10. Patient Information
- 1.6. Psychostimulants
  - 1.6.1. Introduction
  - 1.6.2. Mechanism of Action
  - 1.6.3. Indications
  - 1.6.4. Drugs of the Group

- 1.6.5. Dosage and Forms of Administration
- 1.6.6. Side Effects
- 1.6.7. Contraindications
- 1.6.8. Drug Interactions
- 1.6.9. Patient Information
- 1.7. Anti-Dementia Drugs
  - 1.7.1. Introduction
  - 1.7.2. Mechanism of Action
  - 1.7.3. Indications
  - 1.7.4. Drugs of the Group
  - 1.7.5. Dosage and Forms of Administration
  - 1.7.6. Side Effects
  - 1.7.7. Contraindications
  - 1.7.8. Drug Interactions
  - 1.7.9. Patient Information
- 1.8. Drugs for the Treatment of Dependency
  - 1.8.1. Introduction
  - 1.8.2. Types and Mechanism of Action
  - 1.8.3. Indications
  - 1.8.4. Drugs of the Group
  - 1.8.5. Dosage and Forms of Administration
  - 1.8.6. Side Effects
  - 1.8.7. Contraindications
  - 1.8.8. Drug Interactions
  - 1.8.9. Patient Information
- 1.9. Anti-Epileptic Drugs
  - 1.9.1. Introduction
  - 1.9.2. Mechanism of Action
  - 1.9.3. Indications
  - 1.9.4. Drugs of the Group
  - 1.9.5. Dosage and Forms of Administration
  - 1.9.6. Side Effects
  - 1.9.7. Contraindications
  - 1.9.8. Drug Interactions
  - 1.9.9. Patient Information
- 1.10. Other Drugs: Guanfacine
  - 1.10.1. Introduction
  - 1.10.2. Mechanism of Action
  - 1.10.3. Indications
  - 1.10.4. Dosage and Forms of Administration
  - 1.10.5. Side Effects
  - 1.10.6. Contraindications
  - 1.10.7. Drug Interactions
  - 1.10.8. Patient Information



*A 100% online program in which you can delve into the most appropriate forms of administration of guanfacine”*

# 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

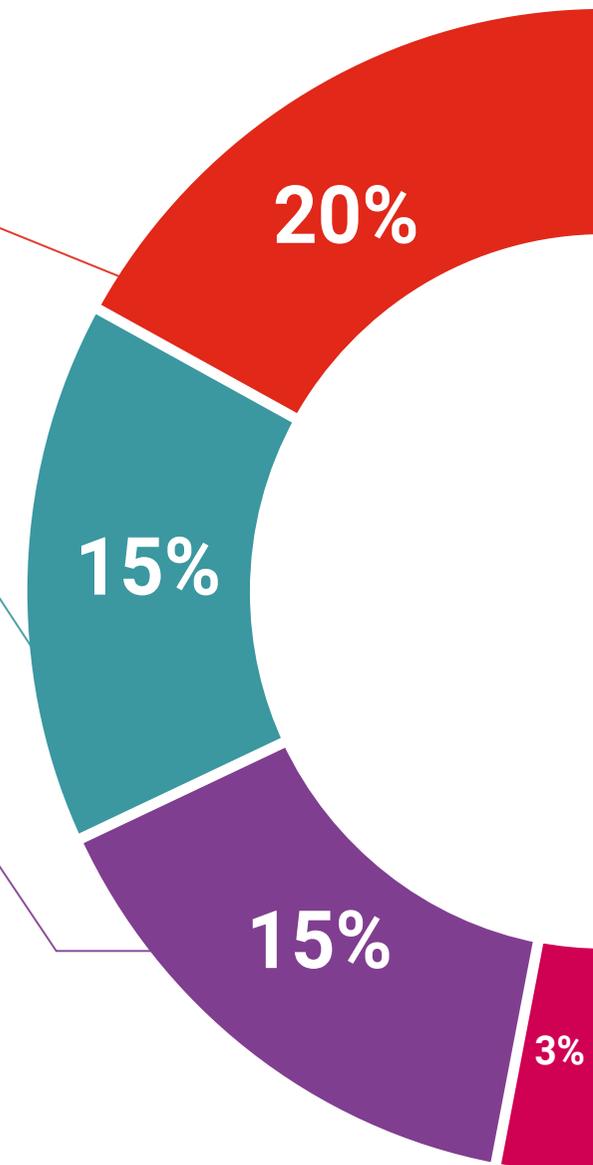
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

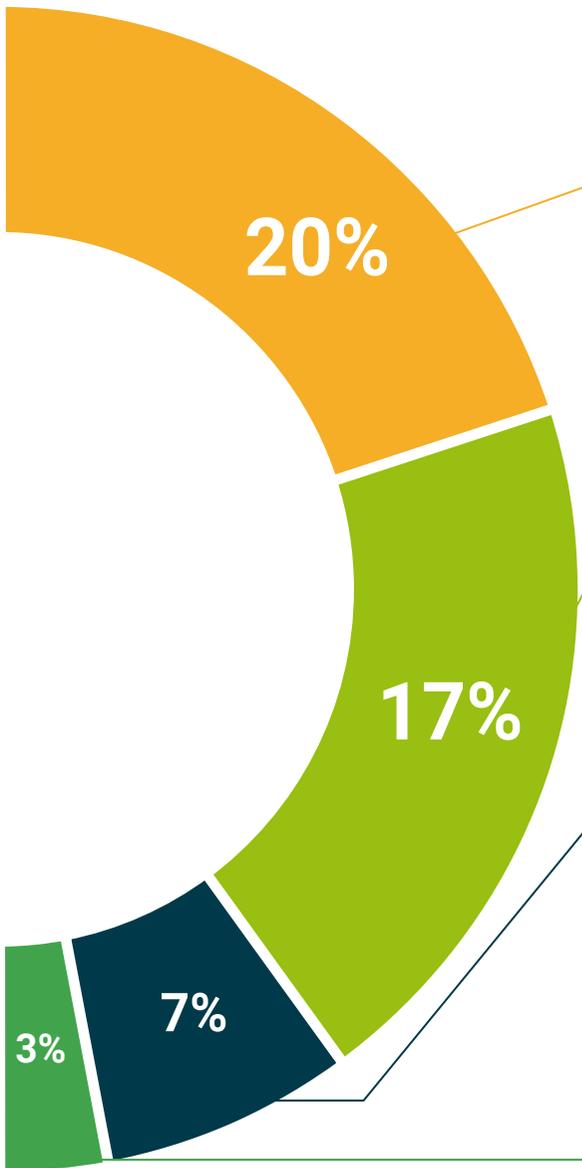
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### 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 Pharmacological Treatments 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 Pharmacological Treatments** 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 Pharmacological Treatments**

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  
development language  
virtual classroom



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