



## Professional Master's Degree Psychopharmacology

» Modality: online

» Duration: 12 months

» Certificate: TECH Global University

» Credits: 60 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/psychology/professional-master-degree/master-psychopharmacology

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## tech 06 | Introduction

In the psychological field, Pharmacology offers a unique opportunity to approach the medicated patient in a precise and concrete manner. Pharmacology offers the possibility of knowing pharmacological drug actions and properties in such a way that they can be prescribed and applied to patients with rigor, with maximum safety, and in optimal conditions. The levels of knowledge may vary depending on the skills and requirements of each person and each profession related to pharmacological therapeutics.

Undoubtedly, the primary objective of Pharmacology is to benefit the patient, and to do so as rationally and strictly as it is usually done to reach the correct diagnosis. Psychologists can help with their expertise in the diagnosis and prescription of the most appropriate medication for each patient. In the last forty years, the development of chemistry, physiology and biochemistry, and analytical technology has made it possible to isolate highly active products from natural sources and, above all, design and synthesize new compounds, analyze their actions and effects at all possible levels of organization of the living substance, and learn about the processes that follow their passage through the organism. This has led to an explosion in the production of therapeutically active pharmaceutical products, an accumulation of information that is not always easy to assimilate, and above all, the possibility of rigorous, objective and individualized application to the characteristics of each patient.

Delay, in 1959, defined psychotropic pharmaceuticals as "chemical substances of natural or synthetic origin, which possess a psychological tropism, i.e., they are capable of modifying mental activity without prejudging the type of modification". Anglo-Saxon authors define psychotropic pharmaceuticals as "chemical substances that modify sensations, mood, consciousness and other psychological and behavioral functions".

This Professional Master's Degree covers all the current pharmacological knowledge along with the whole universe of expertise that psychologists need to be able to develop their role as psychotherapists in interaction and total coordination with doctors in order to, from there, improve the patient's treatment.

This **Professional Master's Degree in Psychopharmacology** contains the most complete and up-to-date educational program on the market. The most important features include:

- Development of more than 75 clinical cases presented by expert psychologists
- 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
- Diagnostic-therapeutic developments on assessment, diagnosis, and intervention in Psychopharmacology
- It contains practical exercises where the self assessment process can be carried out to improve learning
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- With special emphasis on evidence-based psychology and research methodologies in psychology
- All of 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





This Professional Master's Degree may be the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in Psychopharmacology, you will obtain a Professional Master's Degree from TECH Global University"

The faculty includes professionals from the field of psychology, who bring their experience to this Professional Master's Degree program, as well as renowned specialists from leading scientific societies.

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 an immersive program to learn in real situations.

This program is designed around Problem-Based Learning, where students must try to solve the different professional practice situations that arise during the course. For this purpose, psychologists will be supported by an innovative interactive video system created by renowned and experienced experts in the field of Psychopharmacology with extensive teaching experience.

Increase your decision-making confidence by updating your knowledge through this Professional Master's Degree.

> Make the most of this opportunity to learn about the latest advances in Psychopharmacology and improve your patient care.







## tech 10 | Objectives



## **General Objectives**

- Master the current knowledge on medication used in psychiatry and neurology
- Train to achieve the therapist-patient-medication link
- Identify the absorption properties of medication
- Develop proficiency in pharmacodynamics
- Describe in protocols the intervention programs, taking into account the characteristics and specific aspects of from taking medication
- Identify the evolution of the different disorders listed in the DSM-5 or ICD-10
- Master the fields of medical-psychologist interaction in family intervention
- Train the professional on all the updated references on the diagnosis, intervention and therapeutic process in order to interact with the medication
- Describe with decision protocols the individualized study of family members to perform a rigorous psychopathological study
- Use decision trees to make a permanent differential diagnosis
- Organize all the information within a multidisciplinary framing model in the study of the biopsychosocial framework of the psychotherapy-pharmacology relationship







## **Specific Objectives**

## Module 1. Pharmacology and its Objectives in the Psychological Therapeutic Process.

- Describe the patient's medical history
- Discover and promote the family psychic framework
- Differentiate between the different etiologies of mental disorders
- Manage and master the role of sympathy and empathy in vicarious learning
- Manifest the importance of admiration in the overall balance of the family
- Develop effective analysis plans for differential diagnosis
- Identify psychopharmacological needs in mood disorders
- Manage the patient's medical history, as well as provide the necessary skills to work in a multidisciplinary manner

#### Module 2. Anamnesis and the Choice of the Appropriate Medication

- Discover and find the emotional memories of the components of the disorder
- Master and manage the relationship until you become an example
- Identify the components of the patient's pathology to decide on intervention
- Indicate the impact of diagnoses on patient decision making
- Design and implement chronic disease adjustment programs
- Develop protocols that do not allow for medication dependence
- Manage and stabilize the emotional and affective deficiencies of the patient within the intervention
- Use the intervention to determine when it is necessary for other professionals to join the analysis process

## tech 12 | Objectives

#### Module 3. Classification of Psychotropic Medication

- Identify study methods to demonstrate that the medication can be used
- Discover the legal procedures for the use of the medication
- Describe harmful links between different medications
- Apply knowledge about the side effects of medication so that they do not hinder psychotherapy intervention
- Describe the beneficial effects of the medication
- Master the adverse effects and toxicity of the medication

## Module 4. Pharmacological Intervention in Anxiety and Stress Disorders

- Differentiate the pharmacological casuistry for depression and anxiety disorders
- Identify and describe the possible management of anxiety disorders
- Assesses the impact of parental anxiety, depressive and psychotic disorders
- Express and identify the importance of stress
- Identify and differentiate anxiety disorders in their different categories
- Recognize and differentiate disorders secondary to stress



## Module 5. Intervention with Psychotropic Drugs in Depression, Eating Disorders, and Sleep Disorders

- Describe depressive axes
- Master the interaction between antidepressants and other drugs
- Evaluate and list components of eating disorders
- Control pharmacotherapy for anorexia nervosa and master the pharmacological treatment of bulimia
- Handle sleep management with pharmacotherapy
- Differentiating sleep and wakefulness disorders
- Understand the dynamics of sleepwalking
- Differentiate night terror from nightmares

#### Module 6. Pharmacotherapy of Psychosis and Dementias

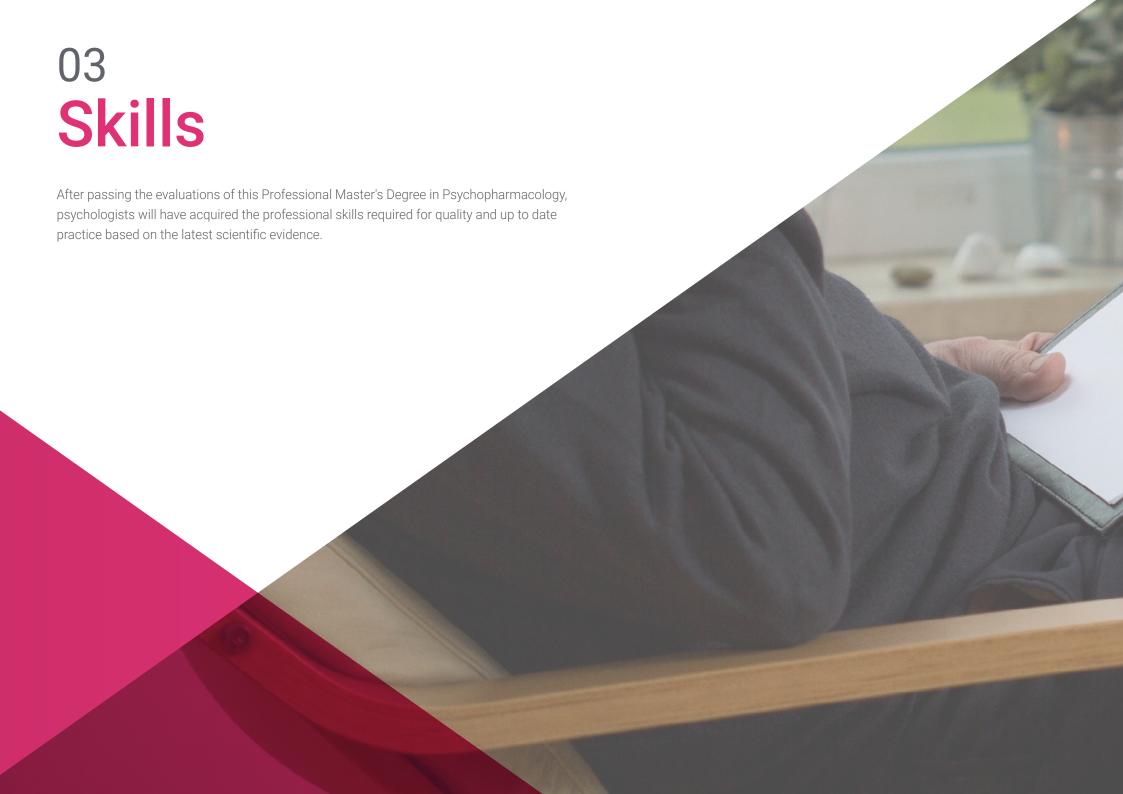
- Learn the side effects of medication for Alzheimer's disease
- Differentiate and frame the disorders of a psychotic systemic condition
- Describe and master the clinic of schizophrenia according to the theory of communication and double bind
- Carry out and adapt pharmacological intervention protocols within an interdisciplinary framework of psychosis
- Address the clinical use of medication in patients with dementia
- Develop the intervention with the drug according to the mental logic of the different age groups
- Master and deal with the differential characteristics with which psychological pathologies are presented

#### Module 7. Medication Used in the Pain Unit

- Design and conduct controlled clinical studies on pain
- Master pain within the framework of therapy
- Manage acute pain with psychopharmaceuticals
- Master the assessment and intervention tools using all the pain intervention indicators
- Develop follow up models that express the changes of pathologies specific to mental states and pain
- Identify and master the clinical and prognostic features of the different disorders of childhood and adolescence with pharmacological intervention on pain



Take the leap as a doctor to get up to speed on the latest developments in Psychopharmacology"



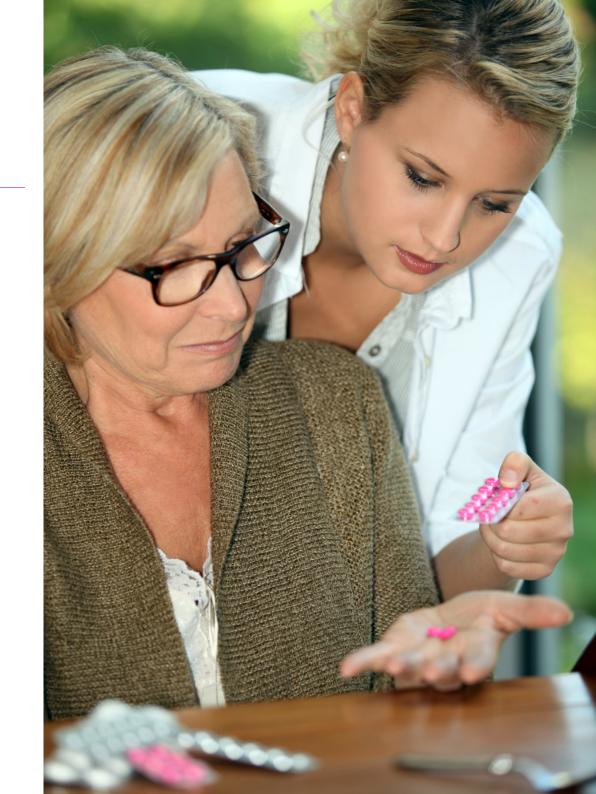


## tech 16 | Skills



## **General Skills**

- Understand psychopathology in order to create a framework of security in the diagnosis and subsequent treatment of psychotropic drugs.
- Master the relationship to achieve an adequate link to obtain the necessary information for the diagnosis
- Connect with the family to locate the most relevant agents of their case and from there, delve into their medical history
- Appreciate all the elements of communication in order to know not only what the family members say, also what they feel and perceive
- Describe the different models that explain the state of the family in order to be able to make decisions regarding the psychopathological situation
- Identify the different criteria that currently establish the expression of psychological illness in order to establish an adequate intervention with psychotropic medication
- Describe and propose clinical expressions that, although not collated in diagnostic manuals are becoming common in everyday clinical practice
- Master the multidisciplinary relationship to help and assist with the knowledge of other professionals and perform a psychopathological analysis according to the reality of the system





- Create an adequate bond to enable the psychopathological study
- Prepare and master the relationship in the first meeting with the child or teenager and the adults that make up the family nucleus
- Describe the emotions felt by the subject in response to treatment with psychotropic medication
- Understand and master the techniques of staging, rescue and outcome of the evaluation process
- Develop ways to detect personality disorders: histrionic, dependent and avoidant Recognize the unique signs of passive aggressive personality disorder
- Differentiate between the knowledge of DNA and RNA, in order to perform diagnostic differentiation in the family setting
- Describe the importance of epigenetics in the study of child and adolescent behavior
- Describe little known syndromes, such as self injuries, in order, to master them and understand self injuries under emotional anxiety
- Outline and manage the classification of mental illnesses in the D.S.M. -5 and ICD-10
- Communicate and educate so that the proposed diagnoses lead to an effective therapeutic relationship
- Advocate and develop protocols that differentiate health from illness in the family

- Discover the array of signs and signals to identify the psychopathology of family members
- Know and be able to develop the role of technical consultant for cases, programs, organization, support to Units and external professionals
- Work in a multidisciplinary UTD and communicate adequately with the professionals who are part of it
- Prepare clinical reports and support other professionals in the reporting of patients in pain
- Coordinate with healthcare and non-healthcare professionals in the comprehensive approach to pain with continuity of care



Seize the opportunity and take the leap to get up to date on the latest developments in Psychopharmacology"





## Management



## Dr. Aguado Romo, Roberto

- Psychologist specializing in Clinical Psychology
- European specialist in Psychotherapy from the EFPA
- President of the European Institute of Time-Limited Psychotherapy
- · Director of the Evaluation and Psychotherapy Center of Talavera, Bilbao and Madrid
- Director of the scientific journal Psinapsis
- Master's Degree in Clinical and Health Psychology by the Spanish Society of Psychosomatic Medicine and Health Psychology
- Tutor of the Basic Psychology course at the UNED

#### **Professors**

#### Dr. De Dios González, Antonio

- Director the Psychology Department of the Hospital Quirón de Marbella, Spain
- Director of Avatar Psychologists
- Master's Degree in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapies
- \* Transpersonal Therapist by the Spanish School of Transpersonal Development
- Master's Degree in Neuro-Linguistic Programming (N.L.P.) by Richard Bandler's Society of Neuro-Linguistic Programming
- Specialist in Clinical Hypnosis and Relaxation

#### Dr. González, Mónica

- Psychologist in charge of the Department of Child and Adolescent Psychology at Hospital Quirón Salud Marbella and Avatar Psicólogos
- Master's degree in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapy
- University Specialist in Clinical Hypnosis with Selective Dissociation Focusing by the University of Almeria
- Collaborator in different Red Cross programs
- Professor in the Master's Degree in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapy
- Trainer of Avatar Psicólogos in different programs of emotional management for educational centers and companies. Trainer at Human Resources Consulting Services (HRCS)

#### Dr. Martínez-Lorca, Manuela

- Doctorate in Psychology from the University of Castilla-La Mancha
- Health Psychologist
- Lecturer at the Department of Psychology at the UCLM
- Master's Degree in Time-Limited Psychotherapy and Health Psychology from the European Institute of Time-Limited Psychotherapy
- Specialist in Clinical Hypnosis and Relaxation

#### Dr. Roldán, Lucía

- Health Psychologist
- Cognitive-behavioral intervention specialist
- Master's Degree in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapies
- Expert in energy therapy intervention





## tech 24 | Structure and Content

## **Module 1.** Pharmacology and its Objectives in the Psychological Therapeutic Process

- 1.1. Anthropological, Historical, Sociological and Psychological Perspective on the Use of Medication
- 1.2. Pharmacology Objectives
- 1.3. Concept of Pharmacology
- 1.4. Therapeutic Pharmacology
- 1.5. Pharmacodynamics
- 1.6. Pharmacokinetics
- 1.7. Plasma Level Curve
- 1.8. Toxicology
- 1.9. Social Aspects of Medication
- 1.10. Medication Intervention Process
- 1.11. Information Form for the Patient to Receive Psychopharmacological Treatment
- 1.12. Symptoms and Signs, Diseases and Syndromes





## Structure and Content | 25 tech

## Module 2. Anamnesis and the Choice of the Appropriate Medication

- 2.1. The Interview in a Clinical and Expertise Setting
- 2.2. Information Theory
- 2.3. Communication Channels
- 2.4. Communication System
- 2.5. Axioms of the Interview
- 2.6. It is Impossible Not to Communicate
- 2.7. Content and Relationship
- 2.8. Affective Value
- 2.9. Digital and Analog Communication
- 2.10. Symmetry and Asymmetry
- 2.11. Exploring Communication
- 2.12. Verbal Communication
- 2.13. Non-Verbal Communication
- 2.14. Double Bond
- 2.15. Psychopathology of Communication
- 2.16. A Gesture is Worth a Thousand Words
- 2.17. Medical History
- 2.18. General Structure of the Mental Examination
- 2.19. Semiology
- 2.20. Epistemology of Diagnosis
- 2.21. Some Special Types of Clinical Interviews

## tech 26 | Structure and Content

## Module 3. Classification of Psychotropic Medication

- 3.1. Neurophysiological Foundations of Mental Illness and its Treatment
- 3.2. Antipsychotics and Neuroleptics
- 3.3. Anxiolytics and Sedatives
- 3.4. Antidepressants
- 3.5. Antimanic or Euthymic Medication
- 3.6. Antiseizure Medications
- 3.7. Medication for Agitation
- 3.8. Pharmacotherapy for Confusion
- 3.9. Drugs for Dementia
- 3.10. Medication Against Deficiencies

## Module 4. Pharmacological Intervention in Anxiety and Stress Disorders

- 4.1. Anxiety or Panic Disorder
- 4.2. Agoraphobia
- 4.3. Social Phobia
- 4.4. Specific Phobias
- 4.5. Generalized Anxiety Disorder
- 4.6. Obsessive Compulsive Disorder and Related Disorders
- 4.7. Separation Anxiety Disorder
- 4.8. Adaptive Disorder
- 4.9. Dissociative Disorders
- 4.10. Somatic Symptom Disorders and Associated Conditions
- 4.11. Trauma and Stress-Related Disorders
- 4.12. Post-Traumatic Stress
- 4.13. Disinhibited Social Relationship Disorder



## **Module 5.** Intervention with Psychopharmaceuticals in Depression, Eating Disorders and Sleep Disorders

- 5.1. Disruptive Mood Dysregulation Disorder
- 5.2. Major Depressive Disorder
- 5.3. Persistent Depressive Disorder (Dysthymia)
- 5.4. Premenstrual Dysphoric Disorder
- 5.5. Substance-Induced Depressive Disorder
- 5.6. Pica
- 5.7. Rumination Disorder
- 5.8. Food Avoidance Disorder
- 5.9. Anorexia Nervosa
- 5.10. Bulimia Nervosa
- 5.11. Binge Eating Disorder
- 5.12. Insomnia
- 5.13. Hypersomnia
- 5.14. Narcolepsy
- 5.15. Obstructive Sleep Apnea
- 5.16. Sleep-Related Hypoventilation
- 5.17. Non-REM Sleep Awakening Disorders
- 5.18. Nightmare Disorder
- 5.19. Restless Leg Syndrome

## Module 6. Pharmacotherapy of Psychosis and Dementias

- 6.1. Schizophrenia and Schizophreniform Psychoses
- 6.2. Delusional Disorder
- 6.3. Brief Psychotic Disorder
- 6.4. Substance-Induced Psychotic Disorder
- 6.5. Catatonia
- 6.6. Bipolar Disorder
- 6.7. Cyclothymic Disorder
- 6.8. Delirium
- 6.9. Alzheimer's Disease
- 6.10. Frontotemporal Lobe Degeneration
- 6.11. Dementia due to Brain Trauma
- 6.12. Vascular Dementia
- 6.13. Dementia Due to Parkinson's Disease'
- 6.14. Dementia Due to Huntington's Disease
- 6.15. Personality Disorders
- 6.16. Latrogenia

#### Module 7. Medication Used in the Pain Unit

- 7.1. Medical History the Patient in Pain
- 7.2. Psychosocial Approach Chronic Pain
- 7.3. Patient-Controlled Analgesia (PCA)
- 7.4. Pain in Polytrauma Patients
- 7.5. Pain in Severe Burns
- 7.6. Headaches and Facial Pain
- 7.7. Treatment of Neuralgia
- 7.8. Treatment of Oncological Pain
- 7.9. Pain and Terminal Sedation
- 7.10. Fibromyalgia



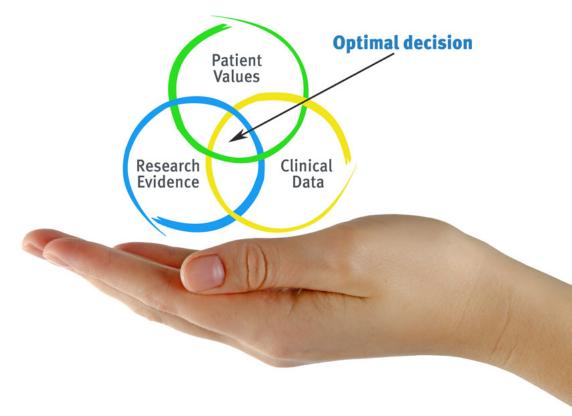


## tech 30 | Methodology

#### 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.



## tech 32 | Methodology

## **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 | 33 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.

## tech 34 | Methodology

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**

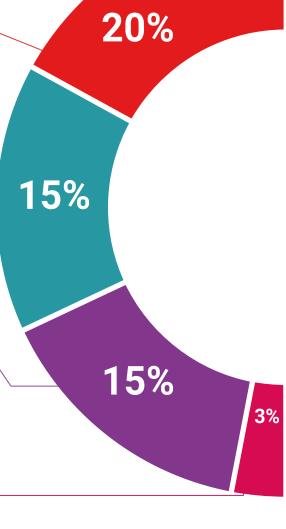
TECH introduces students to the latest techniques, to the latest educational advances, to the forefront of current psychology. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times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



## **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



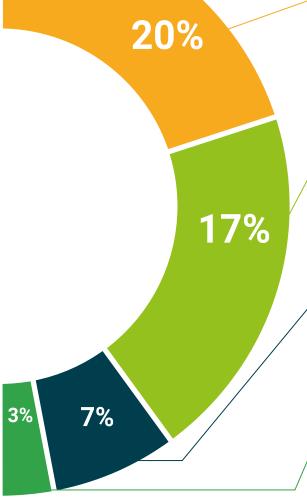
There is scientific evidence suggesting that observing third-party experts can be useful.

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.







## tech 38 | Certificate

This private qualification will allow you to obtain a **Professional Master's Degree diploma in Psychopharmacology** 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.

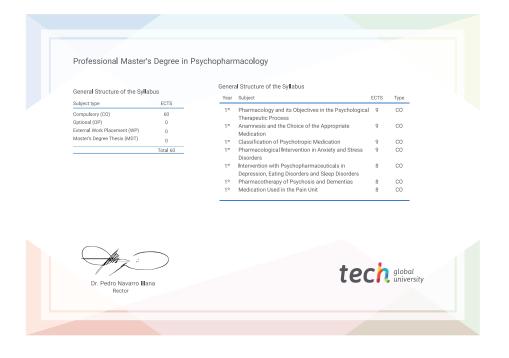
Title: Professional Master's Degree in Psychopharmacology

Modality: online

Duration: 12 months

Accreditation: 60 ECTS





<sup>\*</sup>Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

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