

Postgraduate Diploma

Neuropsychological Assessment and Rehabilitation





Postgraduate Diploma

Neuropsychological Assessment and Rehabilitation

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

Website: www.techtute.com/pk/nursing/postgraduate-diploma/postgraduate-diploma-neuropsychological-assessment-rehabilitation



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01

Introduction

The exhaustive study of Neuropsychology is fundamental to identify the neural bases of complex mental processes.

The development of this science and the specialists who are dedicated to it have succeeded in clarifying the deficiencies of patients, as well as the most effective rehabilitation strategies according to the needs of each clinical case. Focused on its evolution and the application of pharmacological technology, TECH has developed a degree that expands the technical knowledge of nurses to bring them closer to the most innovative rehabilitation strategies. For this, students will have a teaching team versed in Neuropsychology, which works directly with real cases in prestigious hospitals. In addition, TECH offers all the benefits of a 100% online modality, which allows students to follow the course at any time and place.



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TECH offers you a rigorous qualification so that you can project your professional career with this Postgraduate Diploma in Neuropsychological Assessment and Rehabilitation through a 100% online modality"

Thanks to Neuropsychology, scientists have been able to know in detail the functioning of the brain of patients with mental disorders and assess aspects such as the ability to concentrate, memory or language. This has made it possible to advance towards the rehabilitation of those suffering from neurodegenerative diseases such as multiple or lateral amyotrophic sclerosis, Parkinson's, Alzheimer's or different types of dementia. The key to its development has been the intervention applying medical technology. Therefore, the healthcare field requires professionals who know how to apply assessment and rehabilitation strategies for patients.

TECH offers a complete and rigorous program to expand and update the knowledge of nurses specialized in neuropsychology. With this Postgraduate Diploma, registered nurses will be able to learn about the latest scientific evidence related to neurodegenerative diseases, the clinical neuropsychological management of their patients and the pharmacological treatments that are currently obtaining the best results, as well as their future prospects. This is a unique opportunity to project the student's professional career in a simple and effective way in order to improve clinical care.

To achieve this, TECH is supported by a professional teaching team in the area of neuropsychology, which will accompany students in the monitoring of the subject and solve all their questions. In addition, you will have 450 hours of teaching through downloadable audiovisual content in different formats that will make your study more dynamic. Its convenient and accessible 100% online format will allow you to connect from any device and without pre-set schedules. A qualification that adapts to the personal and professional needs of nurses, as well as to the latest developments in the profession and its strategies for action.

This **Postgraduate Diploma in Neuropsychological Assessment and Rehabilitation** 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 Nursing and Neuropsychological Rehabilitation
- ♦ 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 self-assessment can be used 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



You will learn about the methods of care for neurodegenerative diseases, as well as pharmacological new developments and the most effective techniques to alleviate their effects"

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Be part of the health development around vascular diseases, attention and memory pathologies and the physical and psychological consequences for those who suffer from them"

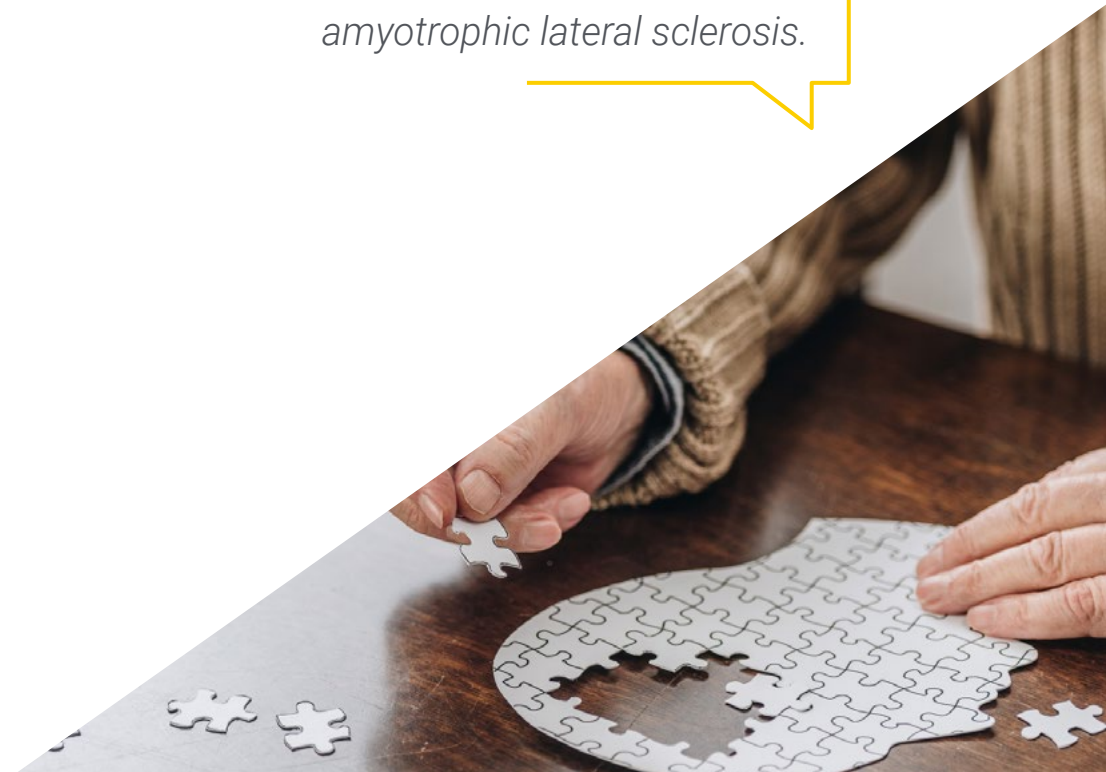
The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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

The design of this program focuses on Problem-Based Learning, by means of which professionals must try to solve the different professional practice situations that are presented to them throughout the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

Thanks to this qualification you will analyze the biological origins of diseases such as Parkinson's or Huntington's disease.

A study that will expand your multidisciplinary skills in the care of patients with multiple sclerosis and amyotrophic lateral sclerosis.



02 Objectives

This program has been designed with the objective of expanding and updating the health knowledge of the nurses who enroll, focused on assessment and rehabilitation of patients with neurodegenerative diseases. For this purpose, it will count not only with dynamic teaching tools in different formats, but also with the institutional support of TECH. Among its features is the support of expert teachers in the area and the study facilities through the 100% online modality. All with the purpose of providing nursing graduates with all the necessary strategies and tools to develop their professional careers.



A close-up photograph of an elderly person's hand, showing significant wrinkling and age spots. A younger person's hand is gently holding the elderly hand, with the thumb and index finger visible. The background is a solid teal color.

“

Learn about the most innovative techniques for the assessment and diagnosis of Alzheimer's and Pick's dementia thanks to a qualification endorsed by healthcare experts"



General Objectives

- Know in detail the latest developments related to the advances that have been made in the field of cognitive neuropsychology
- Delve in a specialized way into Neuropsychology and the keys to its understanding
- Develop a broad and comprehensive knowledge of aphasia, agraphia and alexia



*Reach your professional goals
with a program that will allow you
to study and work while expanding
your knowledge focused on
neuropsychological rehabilitation"*





Specific Objectives

Module 1. Neurodegenerative Diseases

- ♦ Learn about the principles of neurodegenerative diseases
- ♦ Differentiate between and contextualize the different neurodegenerative diseases
- ♦ Know the different types of dementia and learn how to differentiate between them

Module 2. Neuropsychological Assessment and Rehabilitation

- ♦ Gain knowledge about the principles of Neuropsychological Assessment and Rehabilitation
- ♦ Know the different assessment tools that exist within neuropsychology
- ♦ Get to know the different techniques in neuropsychological rehabilitation

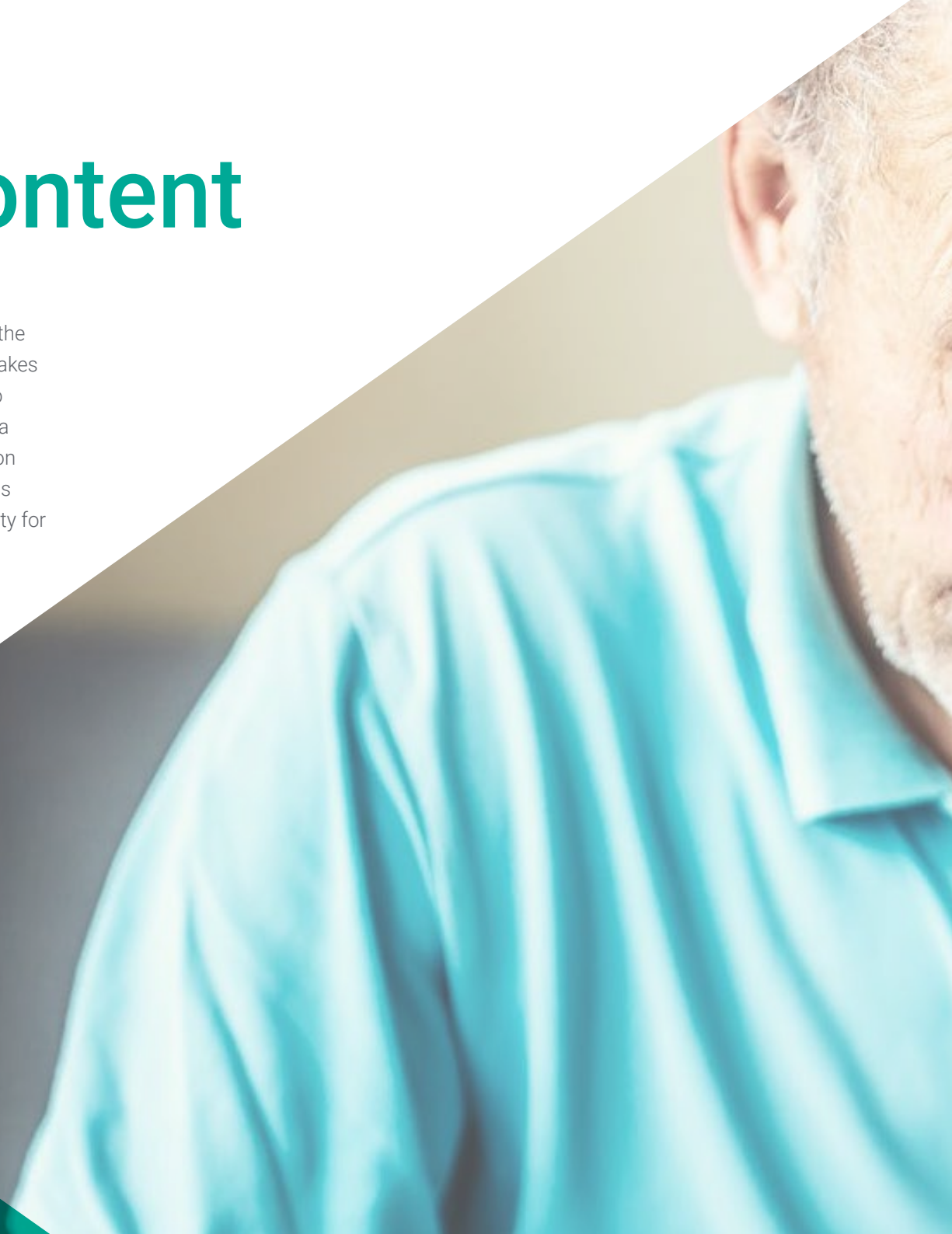
Module 3. Pharmacological Treatment

- ♦ Know and learn about the principles and foundations of psychopharmacology
- ♦ Get to know and classify the different types of psychopharmaceuticals
- ♦ Gain knowledge and contextualize the different uses of psychopharmacological therapy

03

Structure and Content

In order to elaborate this Postgraduate Diploma, TECH has not only taken into consideration the professional criteria of the teaching team but has also applied the Relearning methodology in its development. This method, pioneered by TECH, makes it easy to follow the syllabus in a progressive and simple way, without the need to invest long hours of memorization. Thanks to this, it has been possible to create a dynamic and current qualification, which includes the most exhaustive information on Neuropsychological Assessment and Rehabilitation. In addition, the program is developed using downloadable materials in different formats that provide flexibility for your study.





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Delve into Biofeedback techniques and understand their role as one of the most effective methods currently available in neuropsychological intervention"

Module 1. Neurodegenerative Diseases

- 1.1. Normal Aging
 - 1.1.1. Basic Cognitive Processes in Normal Aging
 - 1.1.2. Superior Cognitive Processes in Normal Aging
 - 1.1.3. Attention and Memory in Elderly People with Normal Aging
- 1.2. Cognitive Reserve and its Importance in Aging
 - 1.2.1. Cognitive Reserve: Definition and Basic Concepts
 - 1.2.2. Functionality of Cognitive Reserve
 - 1.2.3. Influencing Variables in Cognitive Reserve
 - 1.2.4. Interventions Based on Improving Cognitive Reserve in the Elderly
- 1.3. Multiple Sclerosis
 - 1.3.1. Concepts and Biological Foundations of Multiple Sclerosis
 - 1.3.2. Characteristics and Symptomology
 - 1.3.3. Patient Profile
 - 1.3.4. Assessment and Diagnosis
- 1.4. Amyotrophic Lateral Sclerosis
 - 1.4.1. Concepts and Biological Foundations of Amyotrophic Lateral Sclerosis (ALS)
 - 1.4.2. Characteristics and Symptomology
 - 1.4.3. Patient Profile
 - 1.4.4. Assessment and Diagnosis
- 1.5. Parkinson's Disease
 - 1.5.1. Concepts and Biological Foundations of Parkinson's Disease
 - 1.5.2. Characteristics and Symptomology
 - 1.5.3. Patient Profile
 - 1.5.4. Assessment and Diagnosis
- 1.6. Huntington's Disease
 - 1.6.1. Concepts and Biological Foundations of Huntington's Disease
 - 1.6.2. Characteristics and Symptomology
 - 1.6.3. Patient Profile
 - 1.6.4. Assessment and Diagnosis

- 1.7. Dementia of the Alzheimer's Variety
 - 1.7.1. Concepts and Biological Foundations of Dementia of the Alzheimer's Variety
 - 1.7.2. Characteristics and Symptomology
 - 1.7.3. Patient Profile
 - 1.7.4. Assessment and Diagnosis
- 1.8. Pick's Dementia
 - 1.8.1. Concepts and Biological Foundations of Pick's Dementia
 - 1.8.2. Characteristics and Symptomology
 - 1.8.3. Patient Profile
 - 1.8.4. Assessment and Diagnosis
- 1.9. Lewy Body Dementia
 - 1.9.1. Concepts and Biological Foundations of Lewy Body Dementia
 - 1.9.2. Characteristics and Symptomology
 - 1.9.3. Patient Profile
 - 1.9.4. Assessment and Diagnosis
- 1.10. Vascular Dementia
 - 1.10.1. Concepts and Biological Foundations of Vascular Dementia
 - 1.10.2. Characteristics and Symptomology
 - 1.10.3. Patient Profile
 - 1.10.4. Assessment and Diagnosis

Module 2. Neuropsychological Assessment and Rehabilitation

- 2.1. Assessment of Attention and Memory
 - 2.1.1. Introduction to the Assessment of Attention and Memory
 - 2.1.2. Main Instruments
- 2.2. Language Assessment
 - 2.2.1. Introduction to the Assessment of Language
 - 2.2.2. Main Instruments
- 2.3. Executive Functions Assessment
 - 2.3.1. Introduction to the Assessment of Executive Functions
 - 2.3.2. Main Instruments



- 2.4. Assessment of Apraxia and Agnosia
 - 2.4.1. Introduction to the Assessment of Apraxia and Agnosia
 - 2.4.2. Main Instruments
- 2.5. Variables that Intervene in the Recovery of a Patient
 - 2.5.1. Risk Factors
 - 2.5.2. Protective Factors
- 2.6. Strategies: Restoration, Compensation and Mixed Strategies
 - 2.6.1. Restoration Strategies
 - 2.6.2. Compensation Strategies
 - 2.6.3. Mixed Strategies
- 2.7. Rehabilitation of Attention, Memory, Executive Functions and Agnosias
 - 2.7.1. Rehabilitation of Attention
 - 2.7.2. Rehabilitation of Memory
 - 2.7.3. Rehabilitation of Executive Functions
 - 2.7.4. Rehabilitation of Agnosias
- 2.8. Adapting to the Environment and External Support
 - 2.8.1. Adapting the Environment to Meet the Constraints
 - 2.8.2. How to Help the Patient in an External Way?
- 2.9. Biofeedback Techniques as Intervention
 - 2.9.1. Biofeedback: Definition and Basic Concepts
 - 2.9.2. Techniques that Use Biofeedback
 - 2.9.3. Biofeedback as an Intervention Method in Health Psychology
 - 2.9.4. Evidence on the Use of Biofeedback in the Treatment of Certain Disorders
- 2.10. Transcranial Magnetic Stimulation (TMS) as an Intervention
 - 2.10.1. Transcranial Magnetic Stimulation: Definition and Basic Concepts
 - 2.10.2. Functional Areas Considered Therapeutic Targets of Transcranial Magnetic Stimulation
 - 2.10.3. Results of Intervention through TMS in Health Psychology

Module 3. Pharmacological Treatment

- 3.1. Introduction to Psychopharmacology
 - 3.1.1. Principles and Introduction to Psychopharmacology
 - 3.1.2. General Principles of Psychopharmacological Treatment
 - 3.1.3. Main Applications
- 3.2. Antidepressants
 - 3.2.1. Introduction
 - 3.2.2. Types of Antidepressants
 - 3.2.3. Mechanism of Action
 - 3.2.4. Indications
 - 3.2.5. Drug Groups
 - 3.2.6. Dosage and Forms of Administration
 - 3.2.7. Side Effects
 - 3.2.8. Contraindications
 - 3.2.9. Drug Interactions
 - 3.2.10. Patient Information
- 3.3. Antipsychotics
 - 3.3.1. Introduction
 - 3.3.2. Types of Antipsychotics
 - 3.3.3. Mechanism of Action
 - 3.3.4. Indications
 - 3.3.5. Drug Groups
 - 3.3.6. Dosage and Forms of Administration
 - 3.3.7. Side Effects
 - 3.3.8. Contraindications
 - 3.3.9. Drug Interactions
 - 3.3.10. Patient Information
- 3.4. Anxiolytics and Hypnotics
 - 3.4.1. Introduction
 - 3.4.2. Types of Anxiolytics and Hypnotics
 - 3.4.3. Mechanism of Action
 - 3.4.4. Indications
 - 3.4.5. Drug Groups
 - 3.4.6. Dosage and Forms of Administration
 - 3.4.7. Side Effects
 - 3.4.8. Contraindications
 - 3.4.9. Drug Interactions
 - 3.4.10. Patient Information
- 3.5. Mood Stabilizers
 - 3.5.1. Introduction
 - 3.5.2. Types of Mood Stabilizers
 - 3.5.3. Mechanism of Action
 - 3.5.4. Indications
 - 3.5.5. Drug Groups
 - 3.5.6. Dosage and Forms of Administration
 - 3.5.7. Side Effects
 - 3.5.8. Contraindications
 - 3.5.9. Drug Interactions
 - 3.5.10. Patient Information
- 3.6. Psychostimulants
 - 3.6.1. Introduction
 - 3.6.2. Mechanism of Action
 - 3.6.3. Indications
 - 3.6.4. Drug Groups
 - 3.6.5. Dosage and Forms of Administration
 - 3.6.6. Side Effects
 - 3.6.7. Contraindications
 - 3.6.8. Drug Interactions
 - 3.6.9. Patient Information

- 3.7. Anti-Dementia Drugs
 - 3.7.1. Introduction
 - 3.7.2. Mechanism of Action
 - 3.7.3. Indications
 - 3.7.4. Drug Groups
 - 3.7.5. Dosage and Forms of Administration
 - 3.7.6. Side Effects
 - 3.7.7. Contraindications
 - 3.7.8. Drug Interactions
 - 3.7.9. Patient Information
- 3.8. Drugs for the Treatment of Dependency
 - 3.8.1. Introduction
 - 3.8.2. Types and Mechanism of Action
 - 3.8.3. Indications
 - 3.8.4. Drug Groups
 - 3.8.5. Dosage and Forms of Administration
 - 3.8.6. Side Effects
 - 3.8.7. Contraindications
 - 3.8.8. Drug Interactions
 - 3.8.9. Patient Information
- 3.9. Anti-Epileptic Drugs
 - 3.9.1. Introduction
 - 3.9.2. Mechanism of Action
 - 3.9.3. Indications
 - 3.9.4. Drug Groups
 - 3.9.5. Dosage and Forms of Administration
 - 3.9.6. Side Effects
 - 3.9.7. Contraindications
 - 3.9.8. Drug Interactions
 - 3.9.9. Patient Information

- 3.10. Other Drugs: Guanfacine
 - 3.10.1. Introduction
 - 3.10.2. Mechanism of Action
 - 3.10.3. Indications
 - 3.10.4. Dosage and Forms of Administration
 - 3.10.5. Side Effects
 - 3.10.6. Contraindications
 - 3.10.7. Drug Interactions
 - 3.10.8. Patient Information



Thanks to TECH, you will master pharmacological treatments such as antidepressants, antipsychotics, anxiolytics and mood stabilizers, focusing on their indications and contraindications and their side effects"

04 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.



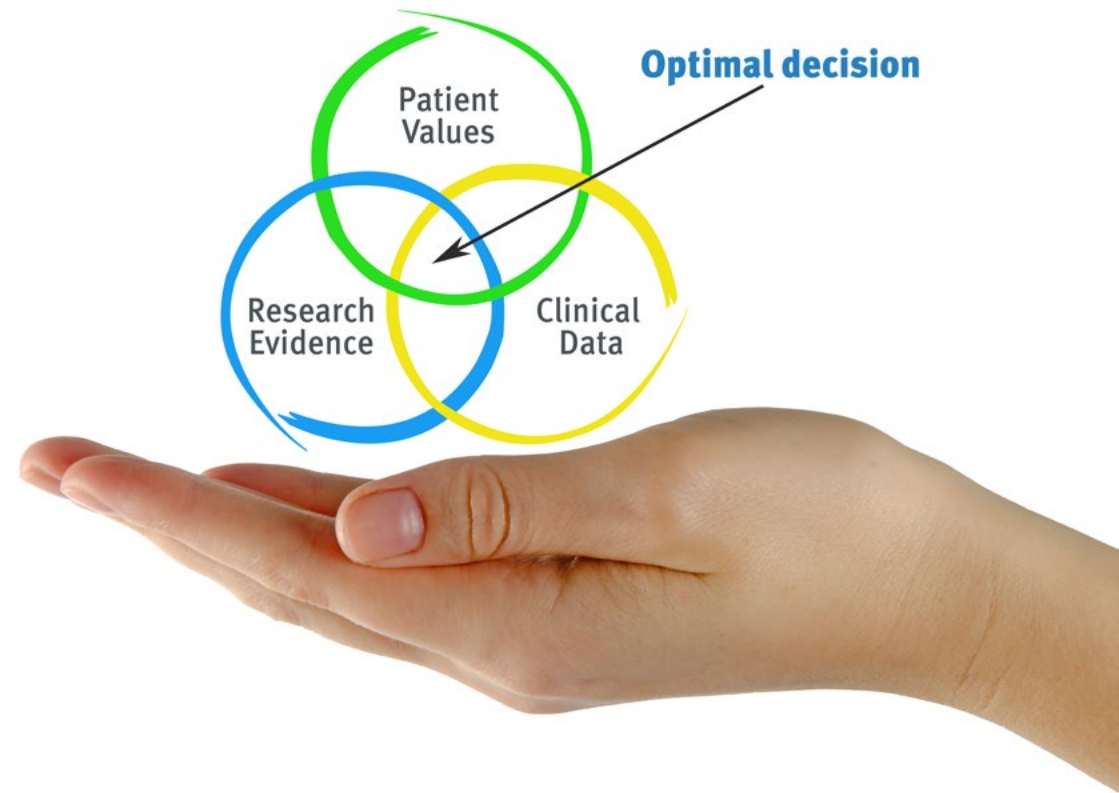
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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH Nursing School we use the Case Method

In a given situation, what should a professional do? 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. Nurses learn better, faster, and more sustainably over time.

With TECH, nurses can experience a learning methodology that is shaking the foundations of traditional universities around the world.



According to Dr. Gérvás, 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, in an attempt to recreate the real conditions in professional nursing 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. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
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 case studies 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 nurse 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.



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 we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. 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.

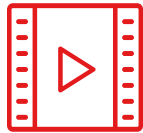
Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

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 really 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.



Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, 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 them as many times as you want.



Interactive Summaries

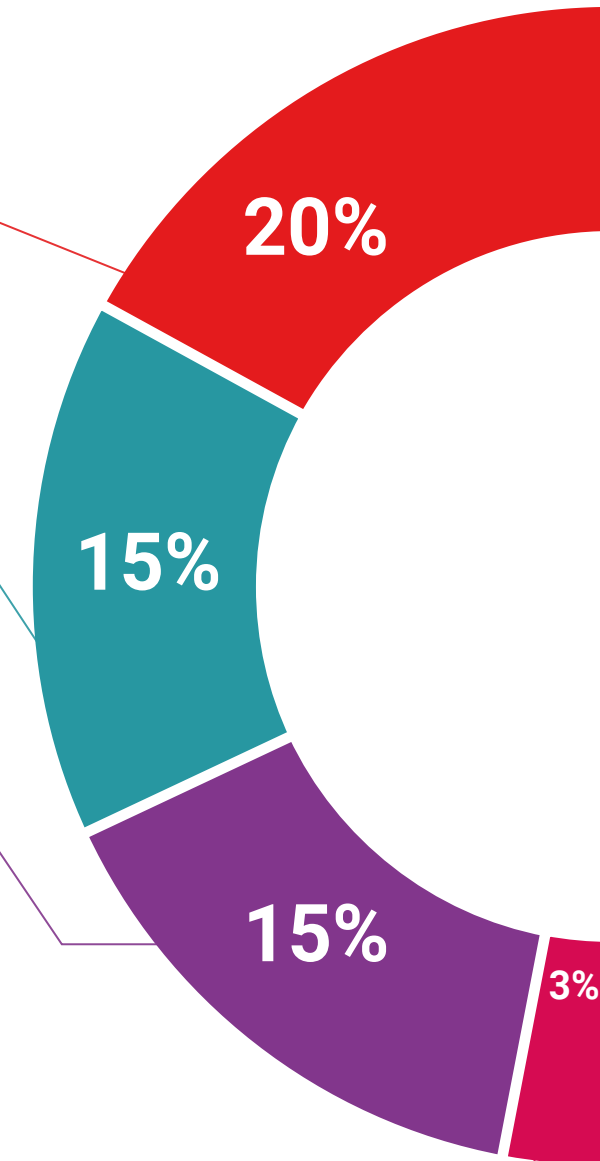
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

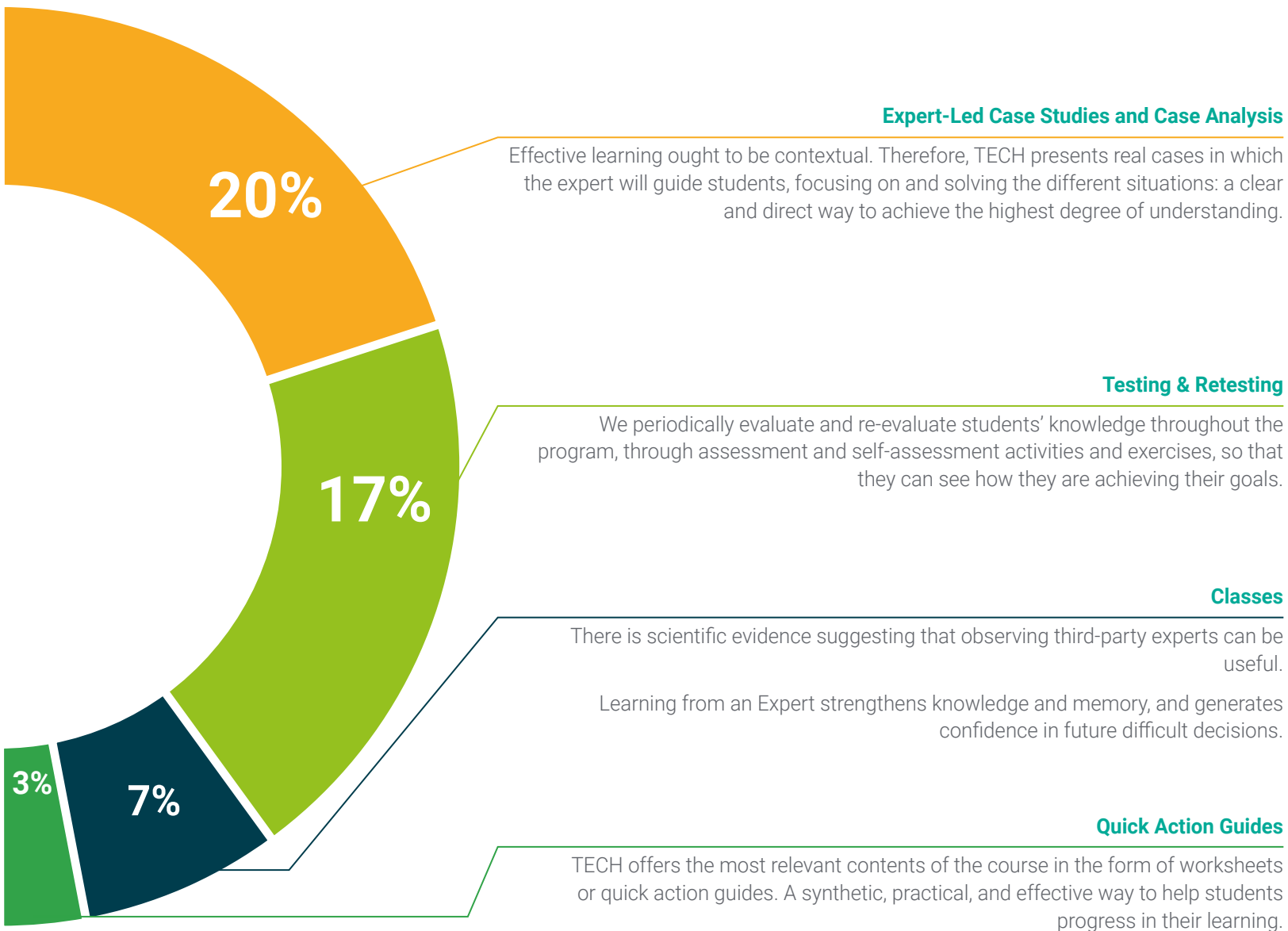
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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.





05 Certificate

The Postgraduate Diploma in Neuropsychological Assessment and Rehabilitation guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma 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 Diploma in Neuropsychological Assessment and Rehabilitation** 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 Diploma** issued by **TECH Technological University** via tracked delivery*.

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

Title: **Postgraduate Diploma in Neuropsychological Assessment and Rehabilitation**

Official N° of hours: **450 h.**



*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.



Postgraduate Diploma
Neuropsychological
Assessment and
Rehabilitation

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

Postgraduate Diploma

Neuropsychological Assessment and Rehabilitation

