

# Postgraduate Certificate Neurodegenerative Diseases





## Postgraduate Certificate Neurodegenerative Diseases

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

Website: [www.techtitute.com/us/nursing/postgraduate-certificate/neurodegenerative-diseases](http://www.techtitute.com/us/nursing/postgraduate-certificate/neurodegenerative-diseases)

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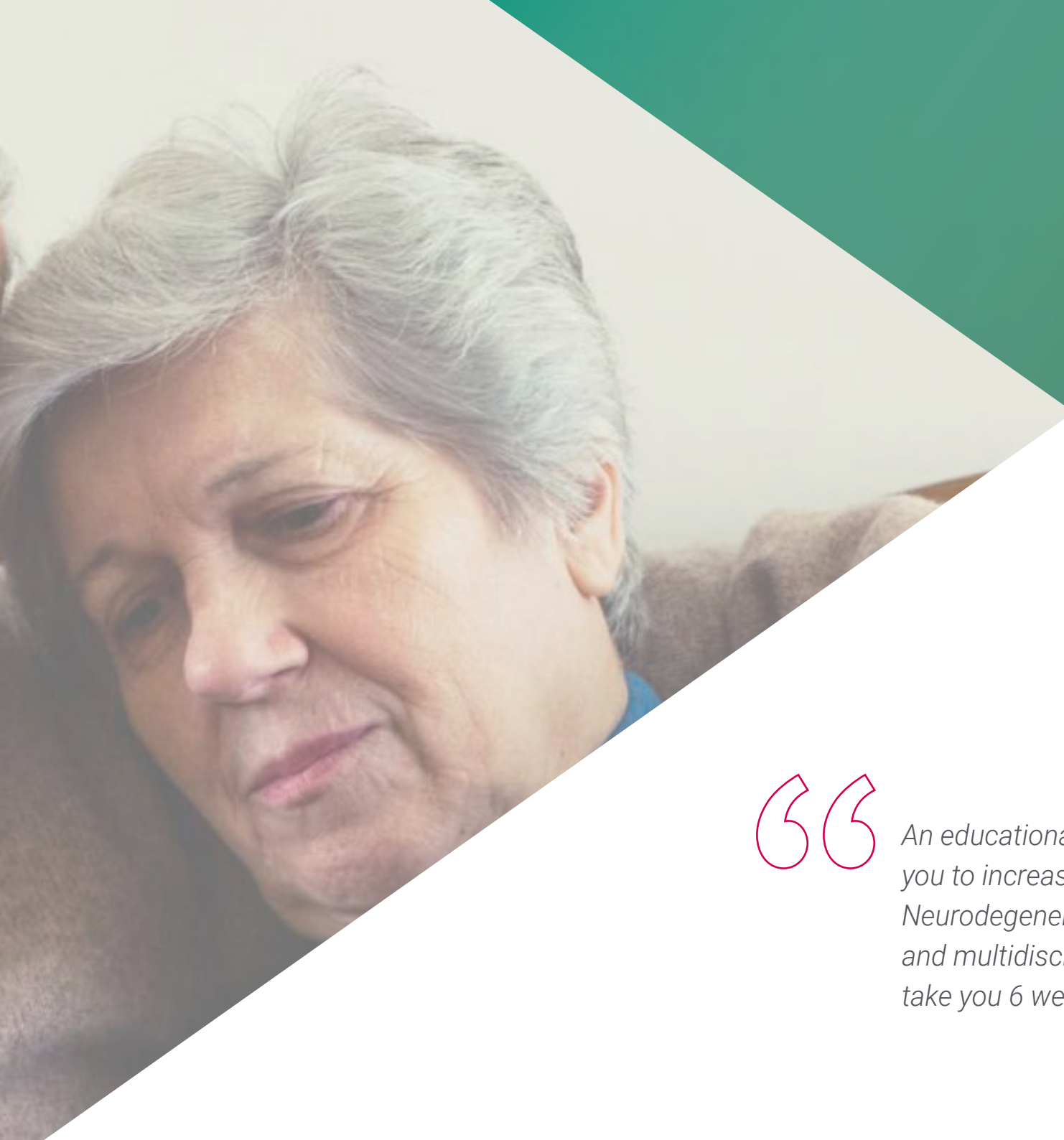
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# 01

# Introduction

The deterioration of neurological abilities in the aging population is one of the main concerns of nursing. Providing adequate care to patients suffering from Alzheimer's, Parkinson's or Huntington's disease is essential to improve their quality of life. Nurses and other clinical professionals are directly involved in this task. For this reason, it is essential that specialists who must provide their services to patients know how to foresee and identify the symptoms of these pathologies in an early manner. For this reason, TECH offers a program that instructs nurses in this field, through a 100% online format that allows a personalized adaptation of the study and guarantees a correct follow-up of the subject through theoretical-practical exercises.





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*An educational option that will allow you to increase your knowledge of Neurodegenerative Diseases in a simple and multidisciplinary way that will only take you 6 weeks of study"*

Many abilities related to the progressive loss of autonomy require early diagnosis and specialized treatments based on the latest scientific evidence in this field. Also, the lack of treatments that can solve these problems definitively, requires optimal healthcare that allows to live with the disease and improve the quality of life of patients. In this sense, nurses can positively influence the control of the pathology and its symptomatology.

For this reason, TECH offers the Postgraduate Certificate in Neurodegenerative Diseases. This is a complete and rigorous program that addresses the biological foundations of neurological diseases. The program aims to broaden and update the knowledge of nursing graduates in this type of pathology, so that they can participate in the improvement of symptoms, increase the mobility of the affected person or relieve pain. In this way, not only will they be able to guarantee clinical management based on the latest trends in the sector, but they will also be able to perfect their skills to improve the quality of life of their patients.

To achieve this, the specialists have at their disposal this multidisciplinary program, thanks to which they will be able to perfect their skills in the clinical management of patients suffering from these conditions. All this, through a 100% online program, which includes 150 hours of the best theoretical, practical and additional material. In addition, TECH has a team of expert nurses in the neurological area, who will guide the student's study and guide them, solving all the questions that arise on the subject.

This **Postgraduate Certificate in Neurodegenerative Diseases** 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 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 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



*Get a thorough understanding of the characteristics and symptomatology of the biological problems that cause neurological conditions"*

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*Increase your clinical knowledge through practical exercises, with which you will be able to work simulated in the management of patients with Lewis body, applying the latest therapeutic strategies”*

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.

*A program that offers you the keys to learn about the latest scientific evidence related to cognitive reserve and its functionality.*

*TECH has developed a program designed to update your knowledge in diseases such as multiple sclerosis and different types of dementia.*



# 02 Objectives

This Postgraduate Certificate aims to expand and update the knowledge of graduates in Nursing focusing on cognitive reserve and its importance in aging, as well as the different Neurodegenerative Diseases and the application of the latest technological tools. All this, through a 100% online modality, which adapts the pace of study to the personal and professional needs of each specialist. In addition, it has audiovisual content that dynamize the monitoring of the subject and make it an enriching educational experience.





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*It delves into the distinction and contextualization of the different Neurodegenerative Diseases, thanks to a team of professionals well-versed in the field"*



## General Objectives

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- ◆ Know in detail the psychological tools of diagnosis that are currently obtaining the best results
- ◆ Develop a broad and up-to-date knowledge of the different Neurodegenerative Diseases





## Specific Objectives

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- ◆ 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



*A program designed for nurses like you, who want to catch up by meeting clinical demands and optimizing healthcare based on the latest developments in Neurodegenerative Diseases"*

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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*The teaching materials of this program, elaborated by these specialists, have contents that are completely applicable to your professional experiences”*

## International Guest Director

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 content of this Postgraduate Certificate in Neurodegenerative Diseases has been developed together with a team of experts in Neurology so that the syllabus has the rigor demanded by the most experienced nurses. The program has a 100% online thematic structure that is supported by audiovisual materials and applies the most advanced techniques, such as the Relearning methodology. In this way, students will be able to progressively follow the subject without having to invest long hours of study. In addition, thanks to the downloadable content, the user can choose the time and place to work on the subject, even without an Internet connection.







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*Improve your skills through the management of patients with Huntington's disease, thanks to a program that will give you the keys to address its origin and diagnosis"*

## 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 Type
  - 1.7.1. Concepts and Biological Foundations of Dementia of the Alzheimer Type
  - 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

“*Opt for a program that guarantees you an exhaustive and deep update in Neurodegenerative Diseases, with high quality multimedia material*”



# 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.





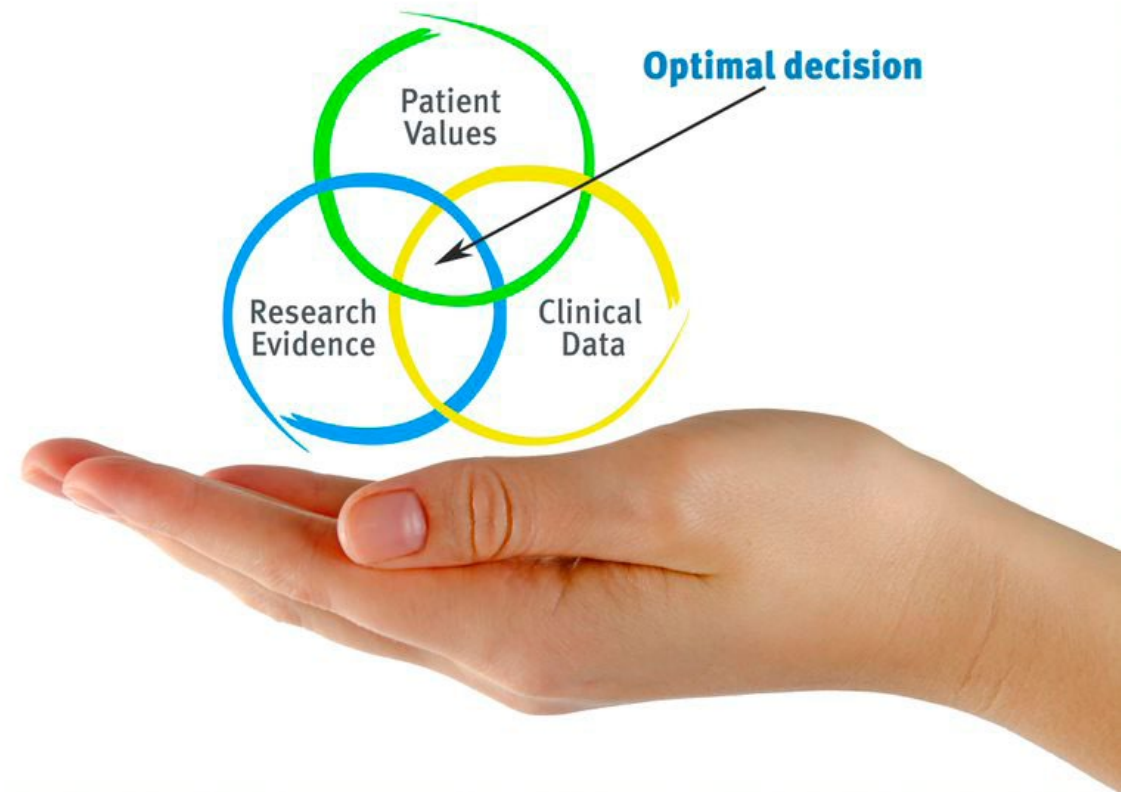
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH 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. 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, 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.

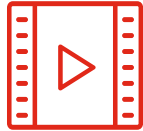
*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

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

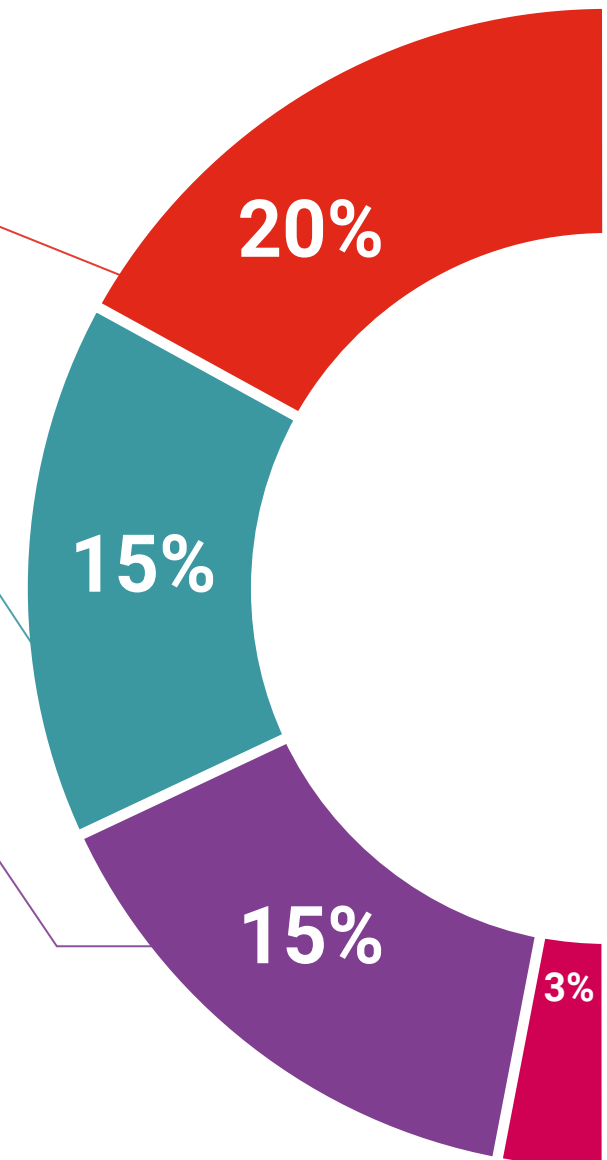
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

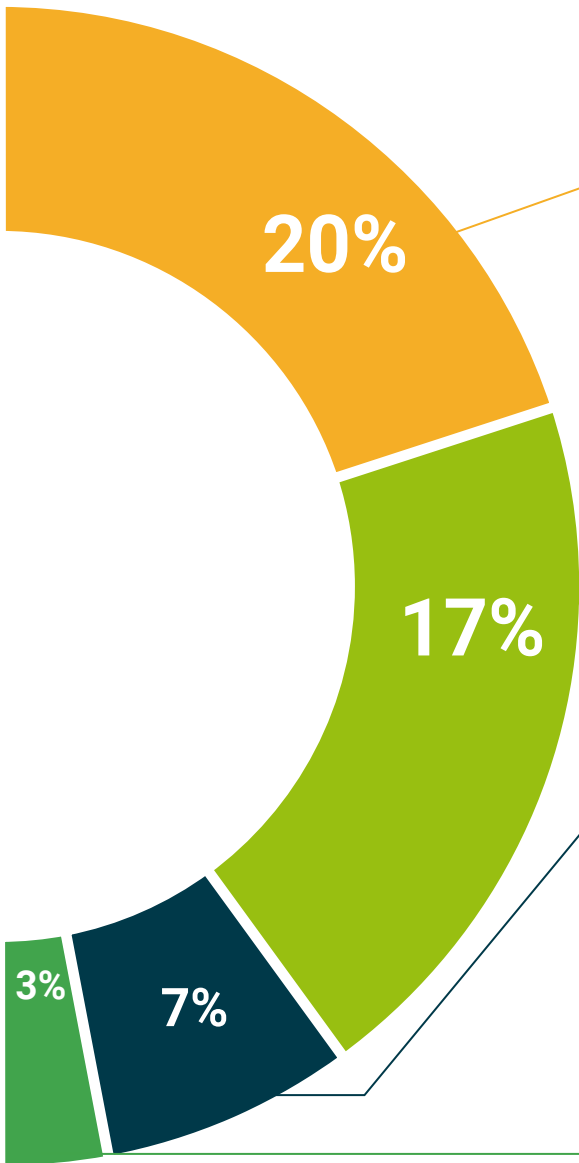
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### 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.





#### 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 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.



# 06 Certificate

The Postgraduate Certificate in Neurodegenerative Diseases 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 Neurodegenerative Diseases** 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 Neurodegenerative Diseases**

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.



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