

# Postgraduate Certificate Neuromuscular Diseases for Nursing





## Postgraduate Certificate Neuromuscular Diseases for Nursing

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

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

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# 01

# Introduction

Nursing care of neurological patients with Neuromuscular Diseases is one of the most common care programs encountered by nurses in their daily practice, whose training is scarce, so a program like this is essential for professionals who specialize in this area.

Thus, this curriculum proposes theoretical and practical knowledge on pathophysiology, medical-surgical care and training on nursing methodology for neurological patients, specific care that favors the quality of the nursing professional's work and improves the satisfaction of people who require specialized care. Therefore, this program is designed to provide the latest advances and developments in treatment and nursing care for the most common disorders, such as amyotrophic lateral sclerosis, myasthenia gravis and muscular dystrophy.



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*Master the specific care required by neurological patients with Neuromuscular Diseases, and make your career stand out from the rest with this TECH program"*

This program studies in depth the etiopathogenesis of Neuromuscular Diseases, which are those that cause problems in the nerves that control the muscular system. They usually cause atrophy, contractions and muscle pain. For this reason, the syllabus goes in depth into the most common related disorders, such as amyotrophic lateral sclerosis, myasthenia gravis and muscular dystrophy.

Knowledge will be given on the most advanced and current treatments in this area; although it is true that these diseases usually have no cure, the treatments improve the symptomatology, and increase both mobility and life expectancy, with nursing having a crucial role in the management of these diseases.

On the other hand, once these treatments and specific nursing care in Neuromuscular Diseases have been defined, this knowledge will be integrated to be able to perform a specific assessment by functional patterns and diagnose according to NANDA taxonomy, planning outcome criteria following NOC taxonomy and nursing interventions in accordance with NIC taxonomy.

In addition, as it is a 100% online program, it provides the student with the ease of being able to study it comfortably, wherever and whenever he/she wants. All you need is a device with internet access to take your career one step further. A modality according to the current times with all the guarantees to position the nurse in a highly demanded area.

This **Postgraduate Certificate in Neuromuscular Diseases for Nurses** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- ♦ Development of more than 100 case studies presented by experts in neurological nursing
- ♦ Its graphic, schematic and eminently practical contents, which are designed to provide essential scientific and assistance information for professional practice
- ♦ Latest developments in neurological nursing
- ♦ Contains practical exercises
- ♦ Theoretical lessons, questions to the expert and clinical cases for individual reflection
- ♦ Content that is accessible from any fixed or portable device with an Internet connection
- ♦ Multimedia content developed with the latest educational technology, which will allow the professional a situated and contextual learning, i.e. a simulated environment that will provide an immersive learning programmed to train in real situations



*Although Neuromuscular Diseases usually have no cure, nursing treatments improve the symptomatology, increasing the mobility and life expectancy of patients"*

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*With this program you will delve into neurological disorders that often cause muscle atrophy, contractions and pain, such as amyotrophic lateral sclerosis, myasthenia gravis and muscular dystrophy”*

*With this Postgraduate Certificate you will acquire the necessary knowledge in the correct treatment of Neuromuscular Diseases.*

*TECH offers you this 100% online program so that you can combine it with your professional and working life.*

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

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 immersive training programmed to train in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts.



# 02 Objectives

The Postgraduate Certificate in Neuromuscular Diseases for Nurses is aimed at facilitating the performance of nurses dedicated to the treatment and care of patients with these pathologies, for which there is usually no cure, but whose treatments significantly improve the symptoms. This requires a high level of competence and training to avoid possible complications and thus improve the level of self-care. With this Postgraduate Certificate, the nurse will be trained in the treatment required by patients in this area, with rigor and professionalism, in order to achieve the following proposed objectives, distributed in general and specific for greater satisfaction of the future graduate on the way to his or her professional goal.







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*You will update your knowledge of myopathies and dystrophies and study myasthenia and motor neuron diseases in depth”*



## General Objectives

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- Learn and integrate general nursing care in the main neurological pathologies
- Perform standardized care plans, acquiring knowledge on how to perform nursing assessments according to functional patterns and use NANDA-NIC-NOC nursing taxonomy for care planning and evaluation
- Acquire knowledge and fundamentals of the pathophysiology of cerebrovascular diseases, epilepsy, movement disorders, multiple sclerosis, dementia, headache, neuromuscular diseases, neurological oncology and CNS infectious diseases and integrate them into nursing practice
- Understand the Necessary Knowledge in Physiopathology of Neurological Diseases
- To have an in-depth knowledge of the most up-to-date basic medical-surgical treatments the most updated
- Acquire in-depth knowledge of diagnostic taxonomy to formulate nursing diagnoses, outcome criteria and nursing interventions





## Specific Objectives

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- ◆ Know and expand knowledge in etiopathogenesis of neuromuscular diseases
- ◆ Update knowledge in myopathies and dystrophies
- ◆ Study knowledge about myasthenia and motor neuron diseases
- ◆ In-depth knowledge of specific nursing care in neuromuscular-oncological diseases
- ◆ Integrate nursing care into daily practice by following standardized care plans according to nursing taxonomies

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*You will successfully integrate nursing care from this program into daily practice by following standardized care plans according to nursing taxonomies”*

# 03

## Course Management

In its maxim of offering an elite education for all, TECH relies on renowned professionals to provide the student with a solid knowledge in the nursing-focused specialty of Diseases diseases. Therefore, this Postgraduate Certificate has a highly qualified team with extensive experience in the sector, which will offer the best tools for the student in the development of their skills during the program. In this way, the student has the guarantees required to specialize in an environment that requires precision, and determination, oriented to the well-being and improvement of the patient, with full attention to their evolution.



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*Experts in the sector warn of the need to have qualified nurses in the treatment of Neuromuscular Diseases and for this reason they have developed this innovative program"*

## Management



### Mr. Cano Manchón, Antonio Rafael

- Nursing Supervisor of the Neurology-Neurosurgery- Stroke Unit of the University Hospital La Princesa.
- Associate Professor of the Faculty of Nursing at the Autonomous University of Madrid, belonging to the Faculty of Medicine
- Degree in Nursing

## Professors

### Ms. Sanz de la Plaza, Carmen

- Nurse Assistant in the Neurology-Neurosurgery- Stroke Unit of the University Hospital La Princesa
- Nurse Expert in Neuroncology Nursing Care
- Degree in Nursing



# 04

## Structure and Content

The structure of the contents of this program has been designed by a team of nursing professionals from a leading hospital in neurological care at all levels, aware of the relevance of the current specialization in Neuromuscular Diseases. Thus, they warn of the need to have nurses qualified in the treatment of these pathologies, which is why they have designed this program. Committed to quality teaching through new educational technologies, they have established a curriculum whose syllabus offers a broad perspective of the performance of the functions of the nurse in this area of health, with which you will expand your knowledge and acquire full competence for your day-to-day work, knowing that you also have the support of a team of experts and the guarantee from of quality TECH, a prestigious university.







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*This program has been designed by a team of nursing professionals from a leading hospital in neurological care to provide you with the keys that will guide you towards your future career goal"*

## Module 1. Neuromuscular Diseases

- 1.1. Clinical History and Neuromuscular Examination
  - 1.1.1. Assessment and Anamnesis
  - 1.1.2. Evaluation of Motor Function Deficits
- 1.2. Complementary Tests in the Study of Neuromuscular Diseases
  - 1.2.1. Immunological Tests
  - 1.2.2. Electromyogram
  - 1.2.3. Neuroimaging
- 1.3. Acquired and Genetic Myopathies
- 1.4. Muscular Dystrophies
- 1.5. Myasthenia and Myastheniform Syndromes
- 1.6. Acquired Polyneuropathies
- 1.7. Hereditary Neuropathies
- 1.8. Motor Neuron Diseases
- 1.9. Treatments for Neuromuscular Diseases
  - 1.9.1. Pharmacological Treatments and Side Effects
  - 1.9.2. Non-Pharmacological Treatment
- 1.10. Nursing Care in Neuromuscular Diseases
  - 1.10.1. Specific Care in Myopathies
  - 1.10.2. Specific Care in Dystrophies
  - 1.10.3. Specific Care in Myasthenia
  - 1.10.4. Specific Care in Polyneuropathies
  - 1.10.5. Specific Care in Hereditary Neuropathies
  - 1.10.6. Specific Care in Motor Neuron Diseases
- 1.11. Standardized NANDA-NIC-NOC Care Plans.
  - 1.11.1. Nursing Assessment by Gordon Functional Patterns
  - 1.11.2. Nursing Diagnoses NANDA Taxonomy
  - 1.11.3. Care Planning According to NIC-NOC Taxonomy





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*Now more than ever, the Postgraduate Certificate in Neuromuscular Diseases for Nurses is the program you need to advance your career path to success”*

05

# Methodology

This training program offers 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. Gervas, 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 Harvard 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 high 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 multimedia content presentation training Exclusive system 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

The student's knowledge is periodically assessed and re-assessed throughout the program, through evaluative and self-evaluative activities and exercises: in this way, students can check how they are doing in terms of 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 Neuromuscular Diseases for Nurses guarantees, in addition to the most rigorous and updated training, access to a Postgraduate Certificate issued by TECH Technological University.



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*Successfully complete this training  
and receive your university degree  
without travel or laborious paperwork”*

This **Postgraduate Certificate in Neuromuscular Diseases for Nurses** contains the most complete and updated scientific program on the market.

After the student has passed the evaluations, 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 job markets, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Diseases for Nursing**

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.

health future  
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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- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

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