

Postgraduate Diploma Cerebrovascular Diseases and Neurological Oncology for Nursing





Postgraduate Diploma Cerebrovascular Diseases and Neurological Oncology for Nursing

Course Modality: Online

Duration: 6 months

Certificate: TECH Technological University

Official N° of hours: 450 h.

Website: www.techtute.com/nursing/postgraduate-diploma/postgraduate-diploma-cerebrovascular-diseases-neurological-oncology-nursing

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01

Introduction

This program addresses the different cerebrovascular diseases that exist and their incidence in the morbimortality of the population. Given that the most frequent cerebrovascular disease is stroke, the specific care according to the cause, whether they present language problems or dysphagia and early rehabilitation in the first 24 hours is fully described in this course. The knowledge is integrated to be able to perform a specific assessment by functional patterns and diagnose according to NANDA taxonomy, planning outcome criteria according to NOC taxonomy and nursing interventions according to NIC taxonomy. The main neurological problems caused by tumors, metastases and hematological neoplasms affecting the central nervous system will also be discussed, as well as specific nursing care in cerebrovascular pathologies.





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You will learn the specific care required by patients with cerebrovascular pathologies and recognize the symptoms of stroke according to its location and etiology"

This program in Cerebrovascular Diseases and Neurological Oncology for Nursing addresses the different cerebrovascular diseases that exist and their impact on population mortality. Stroke is the most common cerebrovascular disease, which can cause severe disability in adults, and is the leading cause of mortality in women in different countries around the world. Therefore, stroke will be defined according to its location and etiology, addressing cerebral hemorrhages, cerebral venous thrombosis, cerebrovascular syndromes and transient ischemic attacks.

A fundamental topic when suffering a stroke will also be discussed, which is neurorehabilitation, the most up-to-date treatments and how it influences in increasing the affected patient's capacity for independence. The student will learn the importance of activating the Stroke Code and the treatment of acute stroke in Stroke Units. To improve the speed of care, the Stroke Code was created. We will describe how this code is activated, what is the circuit to be followed and how it is treated in the hospital emergency room and subsequently in the stroke unit.

In this case, the specific treatment will depend on the patient, the evolution of the process and the type of stroke. Since 2012, a highly specialized treatment called vascular neurointerventionism has been performed, which will be extensively detailed in the module. In all possible cases, management in specialized units called Stroke Units is recommended. Diagnostic measures, general care, specific treatment and control of complications are applied to ensure the best outcome for patients. A highly trained nursing team is essential for this purpose. In addition, a glossary of terms will be provided to enable the nursing staff to perform a correct neurological assessment of the patient.

Similarly, the definition of the most up-to-date treatments and specific nursing care in cerebrovascular pathologies and tumor processes is established in such a way that this knowledge is integrated to be able to perform a specific assessment by functional patterns and diagnose according to NANDA taxonomy, planning outcome criteria according to NOC taxonomy and nursing interventions according to NIC taxonomy.

This **Postgraduate Diploma Cerebrovascular Diseases and Neurological Oncology for Nursing** contains the most complete and up-to-date 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 experts 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, that is, a simulated environment that will provide an immersive learning programmed to train in real situations



Under the slogan "Time is brain", which reflects the importance of receiving medical and nursing care as soon as possible in the event of a stroke, the Stroke Code is activated. This Postgraduate Diploma gives you all the guidelines to follow in the established protocol"

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Neurorehabilitation is essential after suffering a stroke, master the most up-to-date treatments and how they influence the patient's ability to be independent with this TECH program"

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.

Study in depth the knowledge of brain tumors and understand the associated neurological complications in order to understand the treatments used in neuro-oncology perfectly.

This Postgraduate Diploma in TECH allows you to combine your work and personal life with your studies, as it is 100% online and without timetable, so you can study it whenever it suits you best.



02 Objectives

The Postgraduate Diploma Cerebrovascular Diseases and Neurological Oncology for Nursing is oriented to facilitate the performance of nursing staff dedicated to the treatment and care of patients affected by cerebrovascular diseases and neurological oncology treatments, in which it is necessary to have a high level of competence and training to avoid possible complications and thus improve the level of self-care. In this way, the nurse will be trained in the treatment required by patients in this area, with full knowledge of how to proceed, in order to achieve the following proposed objectives, distributed in general and specific by module, for greater satisfaction of the future graduate on the way to his or her professional goal.





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One of the objectives of this program is for you to acquire the necessary knowledge in pathophysiology of neurological diseases to apply it in daily practice"



General Objectives

- ♦ 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
- ♦ Have an In-depth Knowledge of the Most Up-to-date Basic Medical-Surgical Treatments
- ♦ In-depth knowledge of diagnostic taxonomy to formulate nursing diagnoses, outcome criteria and nursing interventions





Specific Objectives

Module 1. Cerebrovascular Diseases

- ♦ Contribute to and expand knowledge in cerebrovascular diseases
- ♦ Updated knowledge on acute ischemic and hemorrhagic stroke
- ♦ Study knowledge of cerebral venous thrombosis and cerebrovascular syndromes
- ♦ Have an in-depth knowledge of the specific nursing care of cerebrovascular diseases
- ♦ Integrate nursing care into daily practice by following standardized care plans according to nursing taxonomies

Module 2. Stroke Code and Stroke Hospital Care

- ♦ In-depth knowledge of the Stroke Code and its activation
- ♦ Update and expand knowledge in acute stroke emergency care
- ♦ Update and broaden knowledge in stroke unit care
- ♦ Study protocolized procedures in the Stroke Unit
- ♦ Have a strong knowledge of the specific nursing care needed in the Stroke Unit
- ♦ Integrate nursing care into daily practice by following standardized care plans according to nursing taxonomies

Module 3. Neurologic Oncology

- ♦ Learn about and expand knowledge of primary glial and non-glial brain tumors
- ♦ Updated knowledge on brain metastasis and meningeal carcinomatosis
- ♦ Study knowledge of neurological complications of chemotherapy, radiotherapy and immunology
- ♦ In-depth knowledge of specific nursing care in neuro-oncological diseases
- ♦ Integrate nursing care into daily practice by following standardized care plans according to nursing taxonomies



With this Postgraduate Diploma you will learn in depth about the Stroke Code: its activation, protocol and specific care"

03

Course Management

In its maxim of offering an elite education for all, TECH relies on renowned professionals for the student to acquire a solid knowledge in Cerebrovascular Diseases and Neurological Oncology for Nursing for the proper performance of their duties in nursing. Therefore, this program has a highly qualified team with extensive experience in the sector, which will offer the best tools for students to develop their skills during the course. In this way, the student has the guarantees required to specialize in an environment that requires precision, patience and attention to detail, oriented to the well-being and improvement of the patient.





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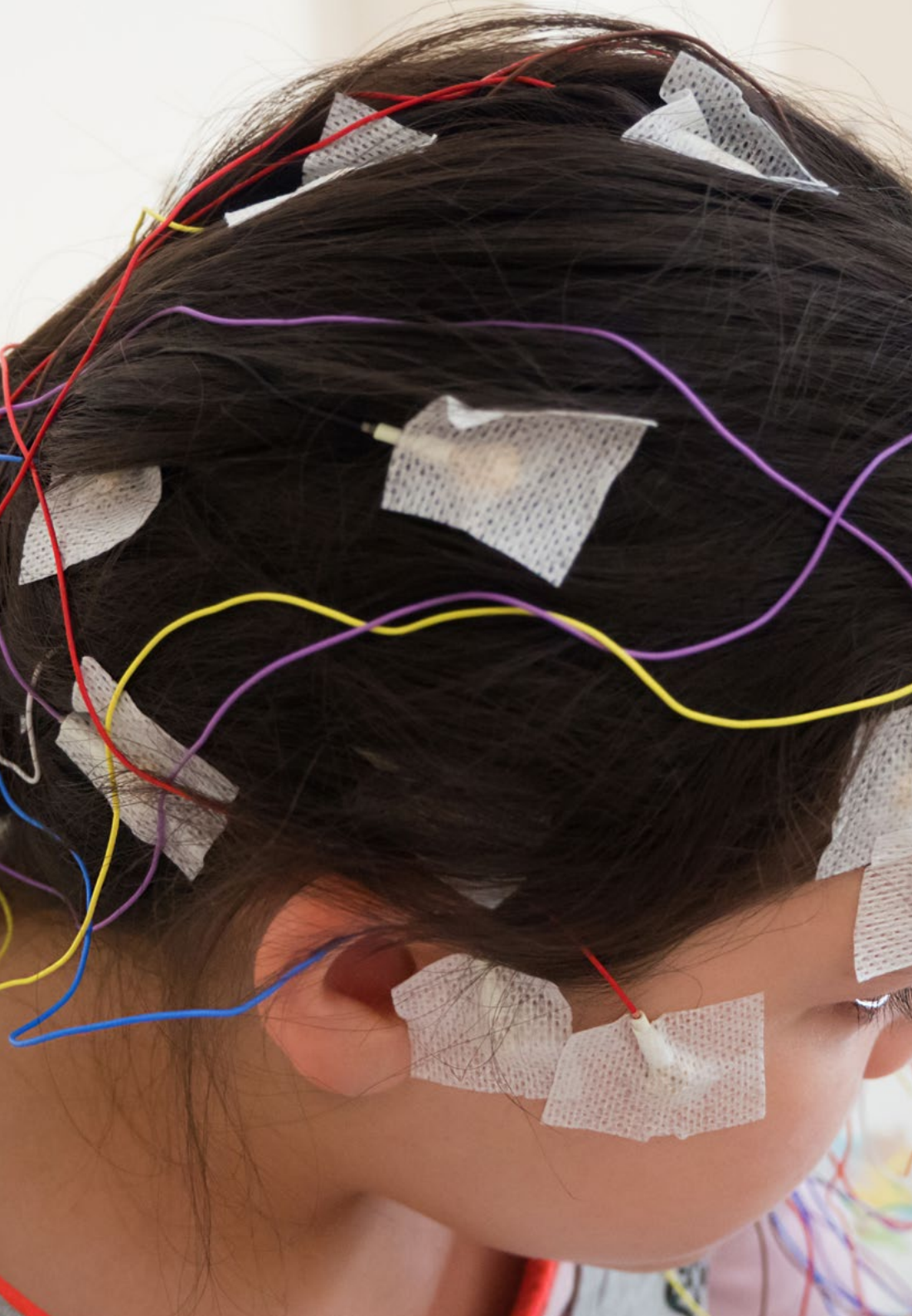
A team of nurses and supervisors give you the insights they use in their daily practice so that you can apply them successfully in your future professional position"

Management



Mr. Cano Manchón, Antonio Rafael

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



Professors

Ms. Fernández Quiñones, Eva

- ◆ Nurse Assistant in the Neurology-Neurosurgery- Stroke Unit of the University Hospital la Princesa
- ◆ Postgraduate Diploma in Vascular Neurology Nursing Care
- ◆ Clinical Collaborator at Autonomous University of Madrid
- ◆ Degree in Nursing

Ms. Sanz de la Plaza, Carmen

- ◆ Nurse Assistant in the Neurology-Neurosurgery- Stroke Unit of the University Hospital la Princesa
- ◆ Postgraduate Diploma in Neurooncology Nursing Care
- ◆ Degree in Nursing

04

Structure and Content

The structure of the contents of this Postgraduate Diploma has been designed by a team of nursing professionals from a leading hospital in neurological care at all levels, aware of the relevance of current specialization in cerebrovascular diseases in order to intervene in the treatment and care of neurological pathology. Committed to quality teaching through new educational technologies, they have established a curriculum whose modules offer 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 quality assurance of prestigious universities.



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Thanks to this program, you will successfully differentiate the types of infarction according to their etiology and understand how to intervene according to the case"

Module 1. Cerebrovascular Diseases

- 1.1. Transient Ischemic Attack
 - 1.1.1. Causes, Signs and Symptoms
- 1.2. Acute Ischemic Stroke. Classification According to Location
 - 1.2.1. Total Ischemic Stroke (TACI)
 - 1.2.2. Posterior Circulation Stroke (POCI)
 - 1.2.3. Lacunar Strokes
- 1.3. Acute Ischemic Stroke II. Classification According to Etiology
 - 1.3.1. Atherothrombotic Infarction
 - 1.3.2. Cardioembolic Infarction
 - 1.3.3. Lacunar Infarction, Small Vessel Occlusion
 - 1.3.4. Cerebral Infarction of Unusual Cause
 - 1.3.5. Cerebral Infarction of Undetermined Origin
- 1.4. Cerebral Hemorrhage
 - 14.1. Causes, Signs and Symptoms
- 1.5. Subarachnoid Hemorrhage
 - 1.5.1. Causes, Signs and Symptoms
- 1.6. Cerebral Venous Thrombosis
 - 1.6.1. Causes, Signs and Symptoms
- 1.7. Other Cerebrovascular Syndromes. (Lacunar, Vertebrobasilar)
 - 1.7.1. Causes, Signs and Symptoms
- 1.8. Neurorehabilitation in Strokes
 - 1.8.1. Importance of Rehabilitation after a Stroke
 - 1.8.2. Subacute Rehabilitation: Outpatient Rehabilitation and Home Care
- 1.9. Nursing Care in Acute Strokes
 - 1.9.1. Specific Care in Ischemic Strokes
 - 1.9.2. Specific Care in Hemorrhagic Strokes
 - 1.9.3. Specific Care in Subarachnoid Hemorrhage
 - 1.9.4. Specific Care in Cerebral Venous Thrombosis
 - 1.9.5. Specific Care in Cerebrovascular Syndromes
- 1.10. Standardized NANDA-NIC-NOC Care Plans
 - 1.10.1. Nursing Assessment by Gordon Functional Patterns
 - 1.10.2. Nursing Diagnoses NANDA Taxonomy
 - 1.10.3. Care Planning According to NIC-NOC Taxonomy

Module 2. Stroke Code and Stroke Hospital Care

- 2.1. Code Stroke
 - 2.1.1. Activation Criteria Stroke Code
 - 2.1.2. Stroke Code Circuit
- 2.2. Ictus Code Attention in the Emergency Department
 - 2.2.1. Emergency Triage
 - 2.2.2. Emergency Nursing Care
- 2.3. Advanced Treatment in Acute Strokes
 - 2.3.1. Intravenous Fibrinolysis
 - 2.3.2. Vascular Neurointerventionism
- 2.4. Stroke Unit
 - 2.4.1. Ictus Unit Entry and Exit Criteria
- 2.5. Protocol Procedures in the Stroke Unit. Nursing Care
 - 2.5.1. Ischemic Stroke Protocol
 - 2.5.2. Ischemic Stroke Protocol with Heparin Treatment
 - 2.5.3. Ischemic Stroke Protocol with Fibrinolytic Treatment and/or Vascular Neurointerventional Treatment
 - 2.5.4. Hemorrhagic Stroke Protocol
 - 2.5.5. Protocol Subarachnoid Hemorrhage
 - 2.5.6. Embolization-Angioplasty-Endarterectomy Protocol
- 2.6. Rehabilitation in the Acute Stroke Patient
 - 2.6.1. Importance of Early Rehabilitation in Acute Stroke
 - 2.6.2. Postural Treatment, Mobilizations and Transfers
- 2.7. Language and Swallowing. Nursing Care
 - 2.7.1. Aphasia and Specific Nursing Care
 - 2.7.2. Dysphagia Swallowing Test. Specific Nursing Care



- 2.8. Treatment of Cerebrovascular Diseases
 - 2.8.1. Pharmacological Treatments and Side Effects
- 2.9. Standardized NANDA-NIC-NOC Care Plans
 - 2.9.1. Nursing Assessment by Gordon Functional Patterns
 - 2.9.2. Nursing Diagnoses NANDA Taxonomy
 - 2.9.3. Care Planning According to NIC-NOC Taxonomy
- 2.10. Neurological Assessment. Scales and Glossary of Terms
 - 2.10.1. Neurological Assessment
 - 2.10.2. Scales: NIHHS, Canadian Scale, Glasgow Scale
 - 2.10.3. Dictionary of Terms

Module 3. Neurological Oncology

- 3.1. Primary Brain Tumors
 - 3.1.1. High-Grade Glioma
 - 3.1.2. Low-Grade Glioma
- 3.2. Non-Glial Primary Brain Tumors
- 3.3. Cerebral Metastases and Meningeal Carcinomatosis
- 3.4. Neurological Complications of Chemotherapy and Immunotherapy
- 3.5. Neurological Complications of Radiotherapy
- 3.6. Paraneoplastic Syndromes
- 3.7. Hematological Neoplasms and their Neurological Complications
- 3.8. Treatments in Neurological Oncology
 - 3.8.1. Pharmacological Treatment
 - 3.8.2. Non-Pharmacological Treatment
 - 3.8.3. Surgical Treatments
- 3.9. General Tumor Nursing Care
 - 3.9.1. Specific Care in Tumors
 - 3.9.2. Specific Care for Tumors Requiring Surgery
 - 3.9.3. Specific Care for Tumors Requiring Chemotherapy
 - 3.9.4. Specific Care for Tumors Requiring Radiotherapy
- 3.10. NANDA-NIC-NOC Care Plans
 - 3.10.1. Nursing Assessment by Gordon Functional Patterns
 - 3.10.2. Nursing Diagnoses NANDA Taxonomy
 - 3.10.3. Care Planning According to NIC-NOC Taxonomy

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

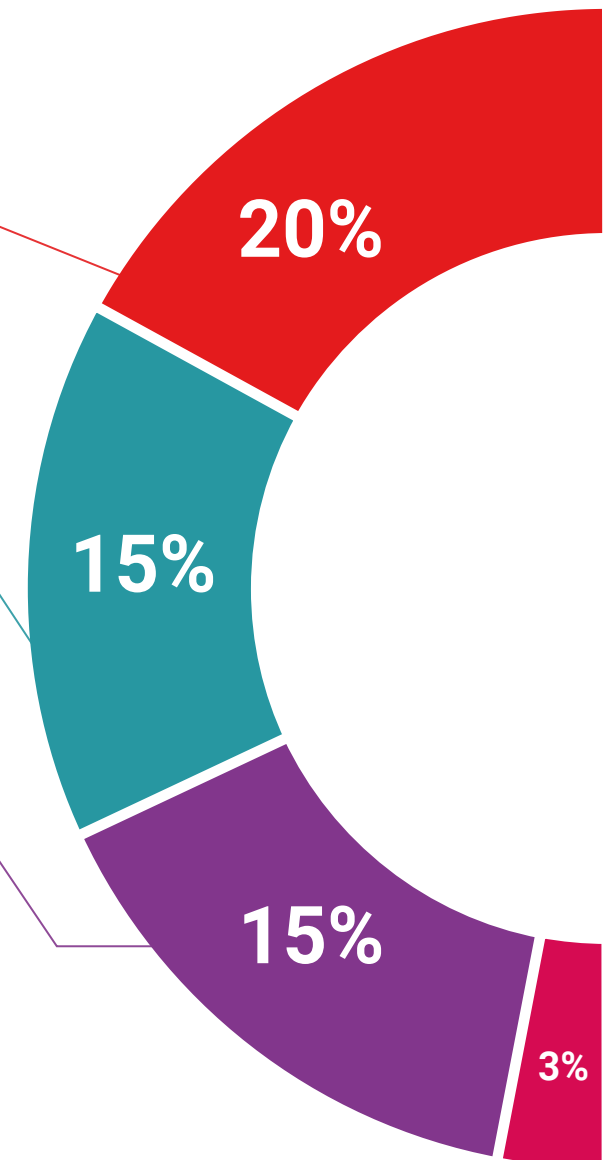
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

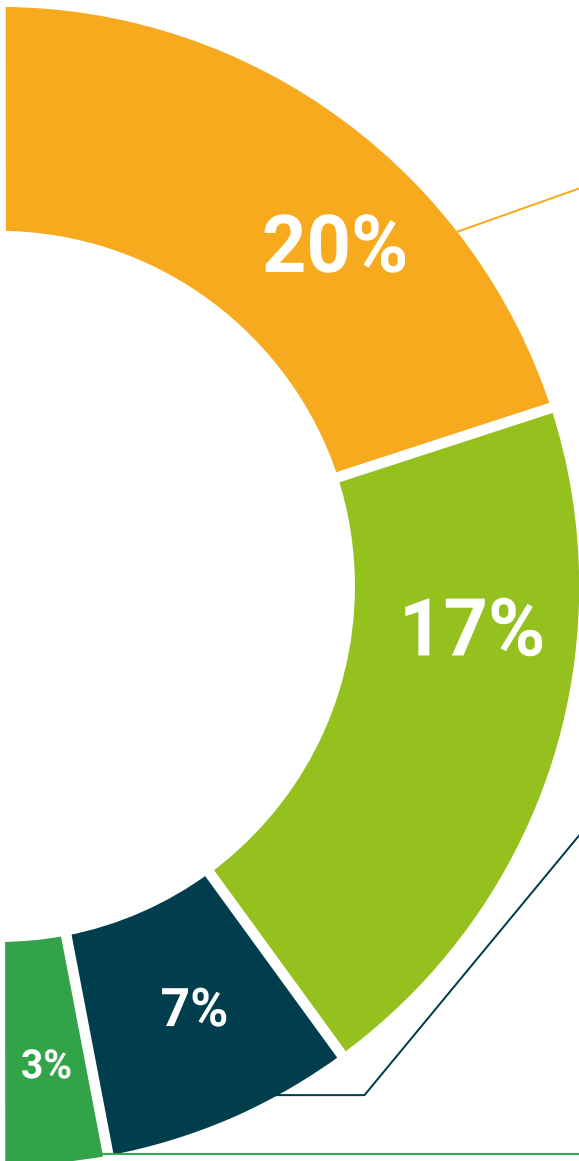
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 Diploma in Cerebrovascular Diseases and Neurological Oncology for Nursing guarantees students, in addition to the most rigorous and updated education, access to a Postgraduate Diploma 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 Diploma in Cerebrovascular Diseases and Neurological Oncology for Nursing** 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 Cerebrovascular Diseases and Neurological Oncology for Nursing**

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.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present quality
development languages
virtual classroom



Postgraduate Diploma
Cerebrovascular Diseases
and Neurological Oncology
for Nursing

Course Modality: Online

Duration: 6 months

Certificate: TECH Technological University

Official N° of hours: 450 h.

Postgraduate Diploma Cerebrovascular Diseases and Neurological Oncology for Nursing

