

Postgraduate Certificate

Pediatric and Neonatal Critical Care
Patient Monitoring for Nursing





Postgraduate Certificate Pediatric and Neonatal Critical Care Patient Monitoring for Nursing

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/nursing/postgraduate-certificate/pediatric-neonatal-critical-care-patient-monitoring-nursing

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01

Introduction

Nursing staff in Critical Care Units are increasingly confronted with cases involving Pediatric and Neonatal Critical Care Patients. These situations require professionals to perform exhaustive monitoring to assess the health status of minors. Only in this way will they be able to appreciate the response to treatments, detect changes in conditions and act promptly to avoid additional complications such as iatrogenic injuries or hemodynamic alterations. However, this work requires nurses to update their knowledge frequently and develop new skills to improve the quality of their care. To help them with this task, TECH implements an online program that will focus on monitoring the smallest users.



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With this Postgraduate Certificate, based on Relearning, you will perform the most comprehensive assessments on the health status of Critical Pediatric and Neonatal Patients”

During infancy there is a high likelihood that children will suffer from neurological problems such as developmental disorders, epilepsy or neurodegenerative diseases. When these occur, nurses play a key role in providing specific care such as proper positioning to prevent muscle contractures or pressure ulcers. Likewise, professionals administer the most appropriate medications to users to control symptoms such as convulsions, spasticity or pain. In line with the above, they carry out continuous monitoring to appreciate the vital signs in real time and the response to the therapeutic treatments applied.

Aware of its relevance, TECH has developed an exclusive Postgraduate Certificate in Pediatric and Neonatal Critical Care Patient Monitoring for Nursing. Its main objective is to provide graduates with a comprehensive vision of the physiological foundations of pediatric and neonatal diseases that require permanent monitoring. The syllabus will deepen the care that professionals must provide to patients with renal alterations (such as urinary infections), skin conditions or digestive disorders. In addition, graduates will gain advanced skills to effectively analyze data derived from the monitoring process. On the other hand, the didactic materials will highlight the management of premature patients, examining in detail their possible pathologies and complications.

This university program will be taught 100% online, with no continuous evaluation schedules or timetables. Graduate will have the opportunity to access the contents freely, according to their own availability and at any time of the 24 hours of the day. Likewise, for the assimilation of the more complex contents of this educational proposal, it will be able to rely on disruptive and original methods such as Relearning. This didactic strategy will enhance the absorption of theoretical knowledge and the development of practical skills in a more efficient manner.

This **Postgraduate Certificate in Pediatric and Neonatal Critical Care Patient Monitoring for Nursing** 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
- ♦ The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out 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



Position yourself in the job market with a 100% online program that adapts to your needs and allows you a solid and expeditious learning”

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You will address in detail the follow-up of patients with skin disorders, to optimize patient comfort by significantly minimizing their pain”

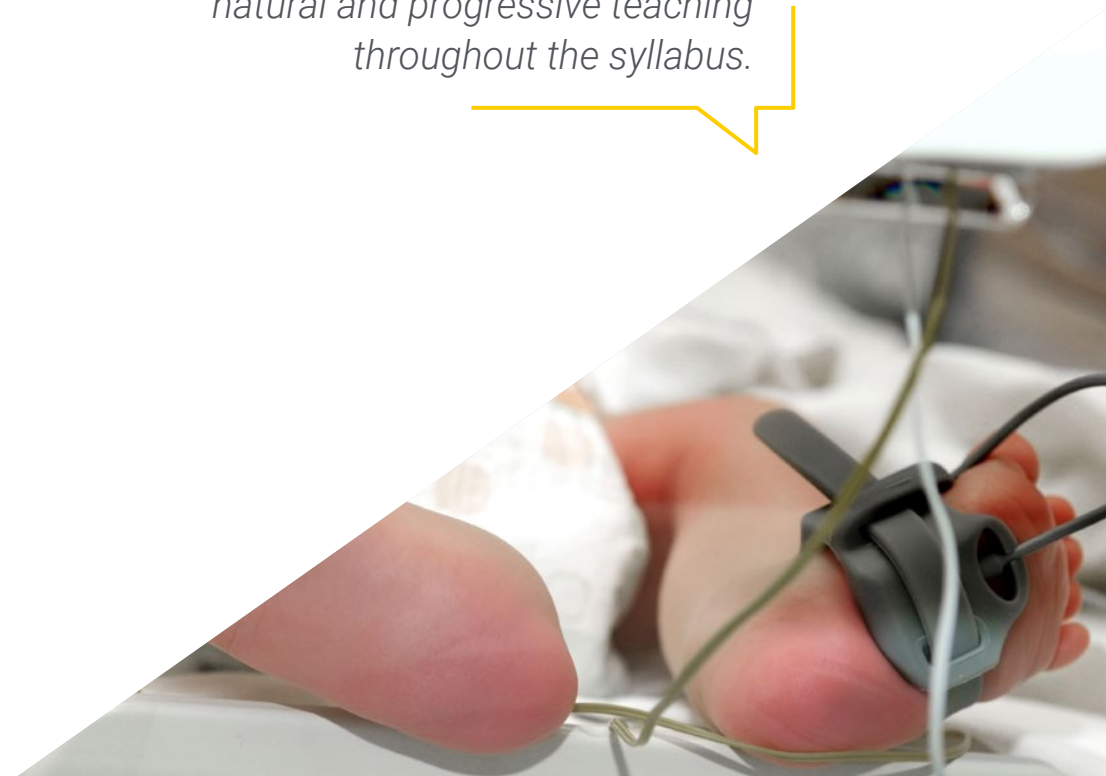
The program's teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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 education programmed to learn 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 course. For this purpose, students will be assisted by an innovative interactive video system created by renowned and experienced experts.

Looking to incorporate the latest burn care techniques into your daily practice? Achieve it with this program in just 6 weeks.

You will have access to a learning system based on repetition, with natural and progressive teaching throughout the syllabus.



02 Objectives

Upon completion of this university program, nurses will have a holistic view of the principles of Pediatric and Neonatal Critical Care Patient Monitoring. In turn, these professionals will acquire competencies to perform physical assessments, using data obtained during follow-ups such as vital signs. In this way, graduates will appreciate the clinical status of minors in real time and their response to the treatments applied. This will make it possible to prevent complications such as hemorrhages, local infections or tissue lesions. In this way, nurses will ensure an improvement in the quality of life of the children.





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If you have set yourself the goal of renewing your knowledge, TECH gives you the opportunity to achieve it by combining it with the rest of your daily responsibilities”



General Objectives

- ♦ Determine the ways of monitoring renal alterations in the Pediatric and Neonatal Patient
- ♦ Compile the ways of monitoring cutaneous alterations in the Pediatric and Neonatal Patient
- ♦ Identify ways to monitor neurological disorders in the Pediatric and Neonatal Patient
- ♦ Explain the monitoring of digestive alterations in the Pediatric and Neonatal Patient





Specific Objectives

- ◆ Evaluate the special considerations of renal and cardiac monitoring in the Pediatric and Neonatal Patient
- ◆ Examine the special considerations of neurological monitoring in the most common pathologies of the pediatric and neonatal critically ill patient for Nursing
- ◆ Determine the critical characteristics of the pediatric polytraumatized patient and neonatal patients
- ◆ Specify the most relevant aspects of premature infant monitoring

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You will achieve your professional goals with the help of TECH's didactic tools, including explanatory videos and interactive summaries”

03

Course Management

TECH's main purpose is to make university programs of the highest quality available to everyone. Therefore, it makes a great effort to select the teaching staff that makes up its programs. For the design of this Postgraduate Certificate, TECH has the services of a group of professionals specialized in Advanced Life Support and Critical Patient Monitoring. They have a long career, in which they have demonstrated their solid knowledge and have contributed to the recovery of numerous users of all ages. Thanks to this, they have developed academic materials of full applicability for graduates.





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Specialize with the best! The diversity of knowledge of the teaching staff will provide you with a rewarding learning atmosphere”

Management



Dr. Ramirez Torres, Carmen Amaia

- ◆ Nurse of the Intensive Care Unit at the San Pedro University Hospital
- ◆ Nurse of the Intensive Care Unit at the Hospital Viamed Los Manzanos
- ◆ Radiodiagnostic Nurse at Alliance Medical
- ◆ Nurse at the Residence for Elderly People of La Rioja
- ◆ Nurse in Gynecology and Obstetrics Operating Room at La Paz University Hospital
- ◆ Doctor in Nursing Sciences by the University Jaime I of Castellón
- ◆ Master's Degree in Management and Direction of Nursing Units from the University of La Rioja
- ◆ Master's Degree in Surgical Nursing, Medical Practice Group
- ◆ Graduate in Nursing from the Autonomous University of Madrid



Professors

Dr. Nebot Bergua, Carlos José

- ◆ Nurse in the Neonatal ICU of the Hospital Sant Joan de Déu of Barcelona
- ◆ Nurse in the Neonatal Unit of the Hospital San Pedro de Logroño
- ◆ PhD in Nursing Sciences from the University of Barcelona
- ◆ Master's Degree in Management of Educational Centers from the Cardenal Herrera University
- ◆ Master's Degree in Nursing Management from the Cardenal Herrera University
- ◆ Master's Degree in Comprehensive Care of Critical Patients and Emergencies from the University of Barcelona and the Autonomous University of Barcelona
- ◆ Master's Degree in Nursing Care in Childhood and Adolescence by the University of Barcelona
- ◆ Member of: Research Group in Nursing, Education and Society (GIES) of the Research Foundation, Sant Joan de Déu and Research Group in Care and Health (GRUPAC) of the University of La Rioja

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A unique, crucial and decisive learning experience to boost your professional development”

04

Structure and Content

Through a theoretical-practical perspective, this program will provide nurses with a solid knowledge of the physiological aspects of Pediatric and Neonatal Critical Care Patients. Therefore, the academic itinerary will focus on the management of cardiac disorders such as arrhythmias, syncope or hypertensive crises. At the same time, the syllabus will delve into the monitoring of patients who have undergone surgery and will offer graduates the most advanced postoperative care techniques. The didactic materials will also delve into the cases of children suffering from digestive disorders, emphasizing the correct use of probiotics in order to strengthen their immune system.



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You will develop advanced skills to interpret data obtained from monitoring such as blood pressure, heart rate or oxygen saturation”

Module 1. Monitoring of the Critical Pediatric and Neonatal Patient with Renal, Cutaneous, Neurological, Digestive, Surgical, Polytraumatized and/or Premature Alterations for Nursing

- 1.1. Monitoring of the Pediatric and Neonatal Patient with Cardiac Alterations for Nursing
 - 1.1.1. Arrhythmias and Syncope
 - 1.1.2. Congenital Heart Diseases: Cyanotic, without Cyanosis, Debuting with Cardiogenic Shock or Others
 - 1.1.3. Heart Failure
 - 1.1.4. Hypertensive Crisis
- 1.2. Monitoring of the Pediatric and Neonatal Patient with Renal Impairment for Nursing
 - 1.2.1. Care of Urinary Tract Infections
 - 1.2.2. Care in Case of Hydroelectrolytic Alterations
 - 1.2.3. Care Related to Peritoneal Dialysis and Hemofiltration
- 1.3. Monitoring of the Pediatric and Neonatal Patient with Skin Alterations for Nursing
 - 1.3.1. Transient Skin Lesions
 - 1.3.2. Non-Transitory Skin Lesions
 - 1.3.3. Prevention and Improvement of Skin Alterations
- 1.4. Monitoring of the Pediatric and Neonatal Patient with Neurological Alterations for Nursing
 - 1.4.1. Intracranial Hemorrhages
 - 1.4.2. Malformations, Skull Alterations
 - 1.4.3. Meningitis
 - 1.4.4. Encephalopathies
 - 1.4.5. Seizures
- 1.5. Monitoring of the Pediatric or Neonatal Patient with Digestive Disorders for Nursing
 - 1.5.1. Gastroesophageal Reflux, Esophageal Atresia and Necrotizing Enterocolitis
 - 1.5.2. Intoxications
 - 1.5.3. Management of Probiotics





- 1.6. Monitoring of the Pediatric and Neonatal Patient who has Undergone Surgery for Nursing
 - 1.6.1. General Preoperative Care
 - 1.6.2. General Postoperative Care
 - 1.6.3. Interventions Requiring Admission to PICU and NICU
- 1.7. Monitoring of the Polytraumatized Pediatric and Neonatal Patient for Nursing Care
 - 1.7.1. Initial Assessment: ABCDE and CPR
 - 1.7.2. Secondary Assessment: Adapted Scales
 - 1.7.3. Transport: Special Characteristics
- 1.8. Monitoring of the Pediatric and Neonatal Burn Patient for Nursing
 - 1.8.1. Initial Management: Severity Assessment
 - 1.8.2. Transfer Management
 - 1.8.3. Management of Burns
- 1.9. Monitoring of the Premature Patient for Nursing
 - 1.9.1. Epidemiology
 - 1.9.2. Possible Pathologies
 - 1.9.3. Complications and Management
- 1.10. Monitoring of the Pediatric and Neonatal patient with other Pathologies for Nursing
 - 1.10.1. Metabolic Disorders
 - 1.10.2. Chromosomopathies
 - 1.10.3. Oncology

“ You will study through videos, interactive summaries or evaluative tests to assimilate all the knowledge in Pediatric and Neonatal Critical Patient Monitoring in an enjoyable way. Enroll now!”

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.



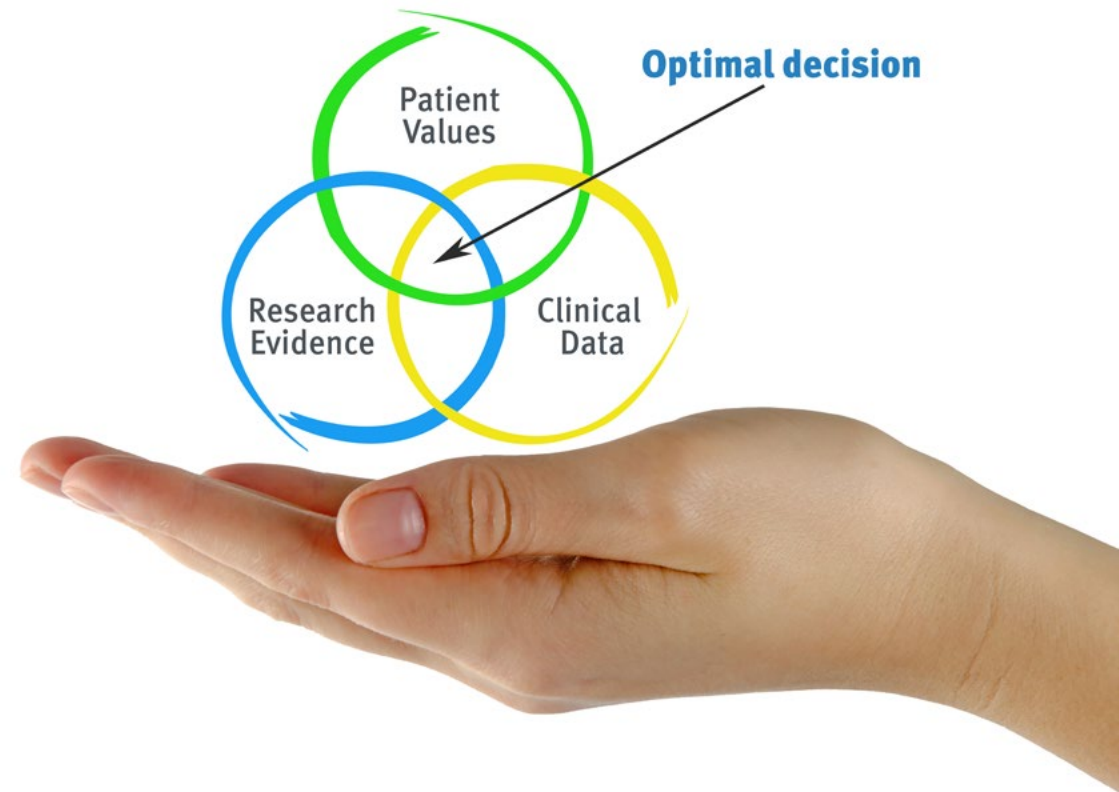
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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

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.

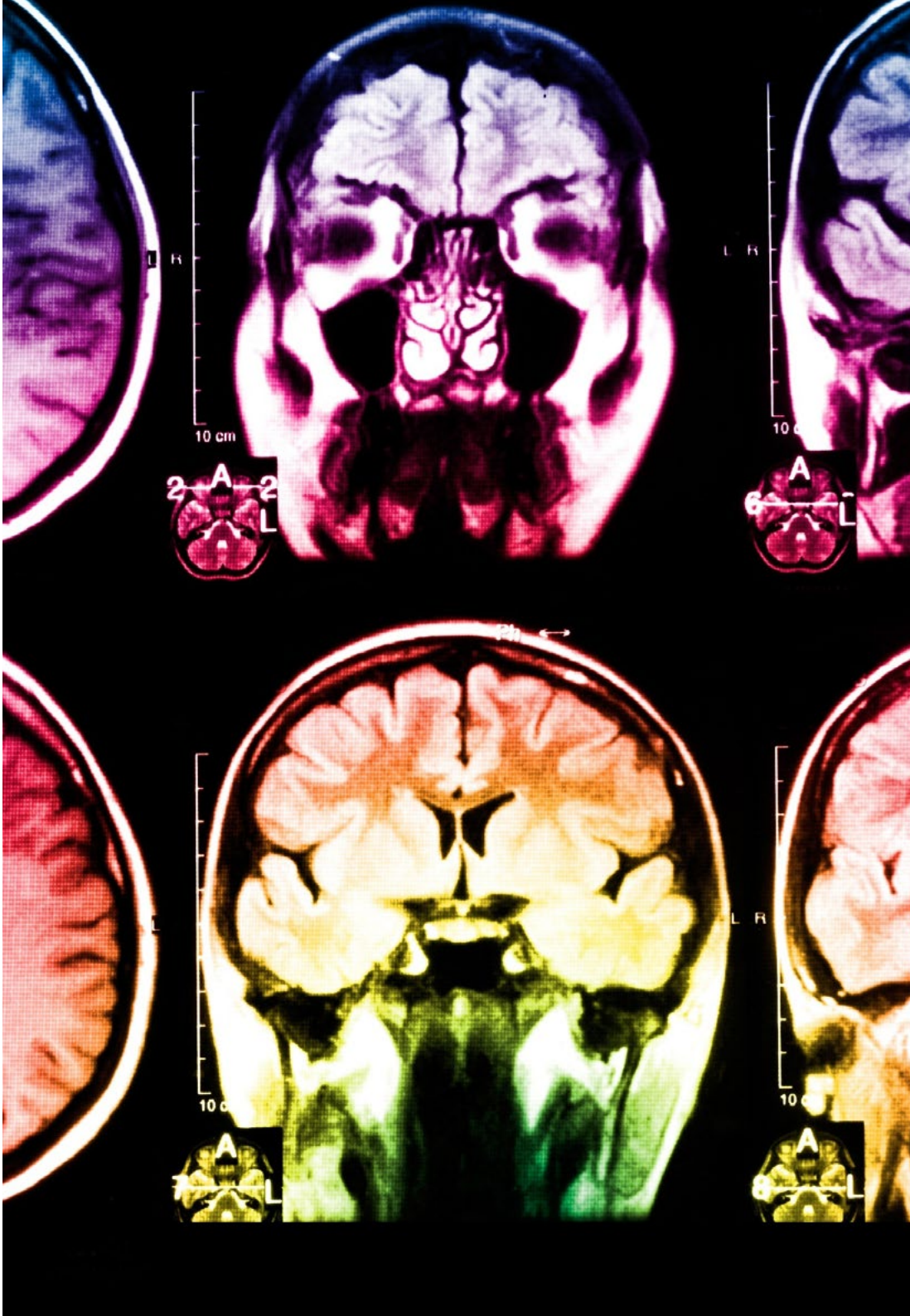
At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

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 adapted in 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

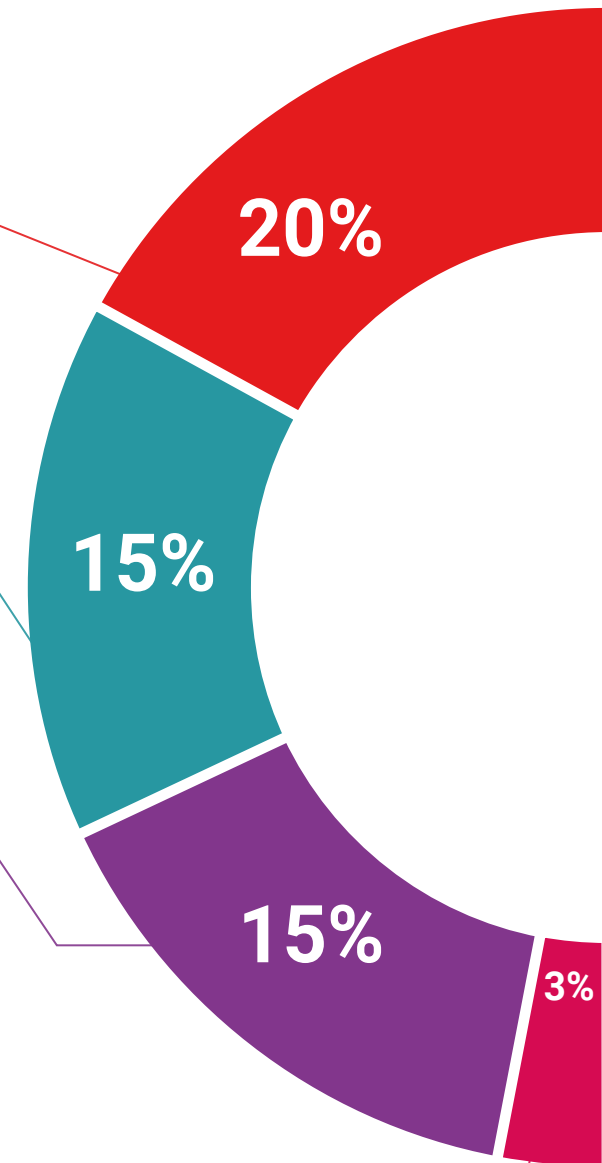
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

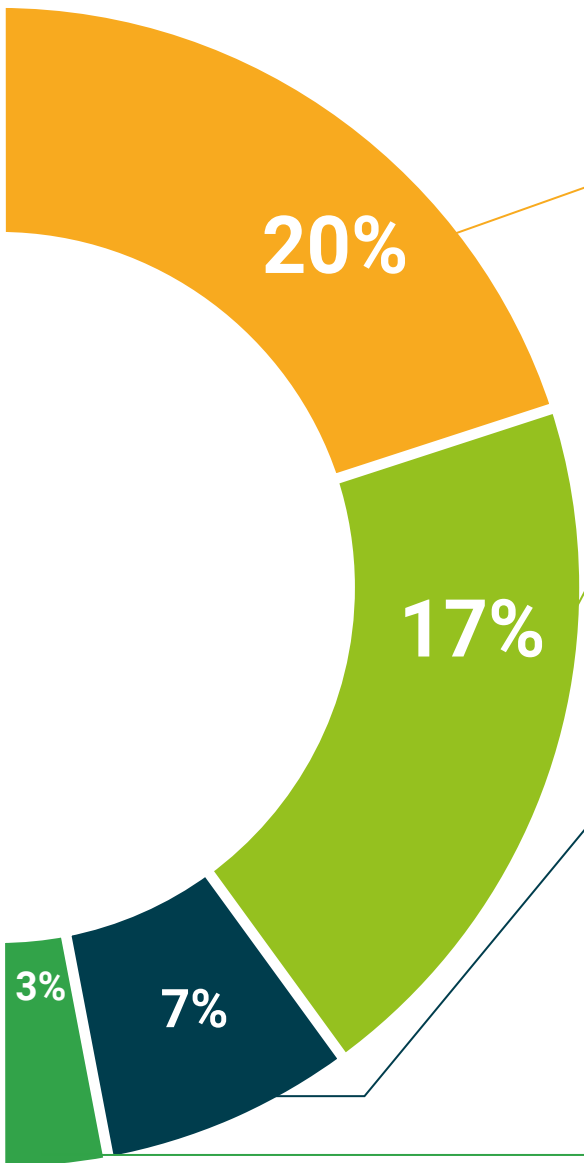
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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

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 Pediatric and Neonatal Critical Care Patient Monitoring for Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”

This private qualification will allow you to obtain a **Postgraduate Certificate in Pediatric and Neonatal Critical Care Patient Monitoring for Nursing** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Pediatric and Neonatal Critical Care Patient Monitoring for Nursing**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



future
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education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge presence
development languages
classroom



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