

Postgraduate Diploma Intensive Care Unit Nursing

Endorsed by:





Postgraduate Diploma Intensive Care Unit Nursing

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 24 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-intensive-care-unit-nursing

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01

Introduction

Since their origin, Intensive Care Units have undergone constant evolution as a result of the incorporation of technology into patient monitoring, diagnostic tests or for their approach to the most complex situations. A continuous process that leads nurses to carry out updating processes in order to keep abreast of technical advances and the procedures used. To facilitate this update, TECH has created this degree, which leads the graduate to deepen from the organization of these units, the management of pediatric patients or with respiratory pathologies to the advances in Life Support. All this, in addition, with 100% online multimedia content, developed by a first-class faculty in the healthcare sector.





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Thanks to this University Expert, you will be up to date with progress in the techniques and procedures used by healthcare professionals in the ICU"

The introduction of the latest technological advances in Intensive Care Units is a factor that has led to improved outcomes and survival of patients hospitalized in this area. However, in recent years there has also been a firm commitment to the humanization of the healthcare process, in which the nursing professional plays a decisive role both in the care provided and in the performance of tests and administration of treatments.

This is a reality that leads healthcare professionals to constantly up-to-date their skills and competencies in these units. For this reason, TECH has designed this 100% online university degree that leads the graduate to an effective up-to-date in Nursing in the Intensive Care Unit.

It is a unique program due to its advanced and up-to-date content, as well as the pedagogical tools provided by this academic institution to facilitate this updating process. In this way, in only 6 months the nurse will become aware of the organization and management of the ICU, the current role of the nursing professional, the techniques of life support management and the procedures used in critical care in patients with respiratory or pediatric disorders.

In addition, thanks to the *Relearning* method, based on the reiteration of key content throughout the academic pathway throughout the academic itinerary, the graduate will not have to invest a large number of hours in study and memorization. A system that further facilitates this knowledge of knowledge updating.

In addition, this university proposal has been conceived to respond to the needs of professionals in the health sector. Students only need a device Digital with an Internet connection to be able to visualize, at any time, the contents hosted on the virtual platform. Undoubtedly, an ideal option to combine work and personal responsibilities with a quality University Expert.

This **Postgraduate Diploma in Intensive Care Unit Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ◆ Practical cases presented by experts in Intensive Care Nursing
- ◆ The graphic, schematic, and practical content with which they are created, provide scientific and practical information on the disciplines that are essential 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



An unparalleled academic option that will take you through a complete update in Intensive Care Unit Nursing in 6 months"

“

Clinical case studies will allow you to get a much more direct insight into the most effective procedures for oxygen therapy, thoracentesis and chest drains”

The program includes in its teaching staff professionals from the sector who bring to this program the experience of their work, as well as recognized 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 students must try to solve the different professional practice situations that arise throughout the program. For this purpose, students will be assisted by an innovative, interactive video system created by renowned and experienced experts.

The best experts in Intensive Care Units will introduce you to nursing management today.

Thanks to the Relearning method, used by TECH, you will be able to focus your attention on the most important concepts.



02 Objectives

The purpose of this University Expert is to provide the nursing professional with the latest advances in care techniques in Intensive Care Units. A process to update that will be much easier to carry out thanks to the theoretical-practical approach of this program and the case studies to which students will have access, 24 hours a day, from any digital device with an Internet connection.



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The theoretical and practical approach of this degree will allow you to integrate the most recent recommendations of the European Resuscitation Council into your practice"



General Objectives

- Update the necessary knowledge in nursing care of the critical patient, in order to increase the quality and safety of nursing practice in the Intensive Care Unit
- Acquire the necessary skills to provide comprehensive care to the critical patient with criteria of speed, efficiency and quality
- Review the fundamental principles of critical care nursing

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Integrate with this program the most pioneering techniques in Life Support and enhance your health skills in Intensive Care Units”





Specific Objectives

Module 1. Organization and Management of an Intensive Care Unit

- ◆ Recognize the importance of proper management of the Intensive Care Unit
- ◆ Provide a safe patient environment in the intensive care unit by assessing and correcting the risk factors present

Module 2. Life Support

- ◆ Gain in-depth knowledge of life support and management of action protocols
- ◆ Know and understand the chains of survival for optimal patient care in different life-threatening situations
- ◆ Acquire advanced knowledge of life support in the adult patient
- ◆ Acquire advanced knowledge of life support in special situations
- ◆ Show the procedures performed on the CPR patient and knowledge of the most pioneering techniques

Module 3. Critical Care in Patients with Respiratory Disorders

- ◆ Develop advanced theoretical knowledge of respiratory physiology and fundamentals of mechanical ventilation
- ◆ Identify the main pathological ventilatory patterns
- ◆ Demonstrate new ventilation devices and therapies in the patient

Module 4. Critical Care for Pediatric Patients

- ◆ Recognize the most frequent pediatric and adult pathological processes in the Intensive Care Unit
- ◆ Adequate nursing care for the pediatric critical patient
- ◆ Perform the nursing role in a pediatric and adult basic and/or advanced life support situation according to the latest European Resuscitation Council recommendations

03

Course Management

TECH has brought together in this university degree a faculty composed of professionals of the highest level in the health field in Intensive Care Units. In this way, students who take this process of updating their knowledge will have at their disposal a syllabus prepared by experts in this field and with accumulated experience in dealing with complex situations. In addition, thanks to their proximity, students will also have the opportunity to resolve any doubts that may arise regarding the content of this academic option.





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Get a complete update on the Intensive Care Unit from healthcare professionals with accumulated experience in this area”

International Guest Director

Dr. Anselmo Caricato is a distinguished Italian physician and academic with a prestigious career in the field of Anesthesiology and Intensive Care. Throughout his career, this expert has continuously participated in research projects together with specialists from different European countries and scientific institutions. As a result, he has become a true reference in the management of traumatic injuries and other critical neurological conditions.

Among other lines of work, he has collaborated with several clinical trials, such as the Eurotherm 3235 Trial and with the European Brain Injury Consortium. He has also analyzed the efficacy and safety of several innovative treatments to further the study of neurological contusions.

His results have been widely endorsed by the most prestigious scientific publications. Proof of this are the more than 60 peer-reviewed articles that have been published in high impact global journals such as Stroke, Critical Care Medicine, International Journal of Critical Illness and Injury Science, Neurological Research, and many others. At the same time, he is listed as a member of the Editorial Board of the World Journal of Critical Care Medicine and the Austin Journal of Emergency and Critical Care Medicine.

As for his professional career, this expert, who obtained his degree in Medicine and Surgery at the Catholic University of the Sacred Heart in Rome, has been linked to the "A. Gemelli" University Hospital. From that institution he headed the Trauma Intensive Care Unit in the Emergency Department for several years.

He has also collaborated as an Intensive Care physician in the Vatican City. On the other hand, in parallel to his healthcare work, this specialist has held active academic functions, mainly in conjunction with his alma mater. Based on his distinguished career, he has been selected as Director of the American Trauma Life Support Program at the "A. Gemelli" University Hospital.



Dr. Caricato, Anselmo

- ♦ *Chief of Neurosurgical Intensive Care at A. Gemelli University Hospital, Rome, Italy*
- ♦ *Intensive Care Physician in Vatican City, Italy*
- ♦ *Director of the ATLS (American Trauma Life Support) Program at "A. Gemelli" University Hospital, Rome, Italy*
- ♦ *Academic of the Faculty of Medicine and Surgery of the Catholic University of the Sacred Heart*
- ♦ *Reviewer and contributor to the Editorial Board of the World Journal of Critical Care Medicine and Austin Journal of Emergency and Critical Care Medicine*
- ♦ *Member of: Italian Society of Anesthesia, Analgesia, Resuscitation and Intensive Care Medicine, Neuroanesthesia and Neurointensive Care Study Coordination Group, Neuroanesthesia and Neurointensive Care Group*

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Thanks to TECH, you will be able to learn with the best professionals in the world”

Guest Director



Ms. Díez Sáenz, Cristina

- Head of the Critical Care Unit at HGU Gregorio Marañón
- Head Nurse of the Adult Intensive Care Unit at Hospital General Universitario Gregorio Marañón
- Nursing supervisor at Gregorio Marañón ICU
- Nurse Assistant in different hospitalization areas in different health centers and hospitals
- Participation as collaborating researcher in the multicenter project "National Validation of the Scale of Satisfaction with Nursing Care from the Perspective of the Critical Patient"

Management



Ms. Lospitao Gómez, Sara

- Intensive Care and Interventional Cardiology Nurse at the Hospital Universitario de Fuenlabrada (HUF)
- Nurse of the Post-Surgical Intensive Care Unit (PICU) of Cardiac Surgery at the Hospital Universitario 12 de Octubre
- Nurse Coronary Intensive Care Unit at university 12 de Octubre Hospital
- Interventional Cardiology Unit Nurse (Hemodynamics, EPS and Implants)
- Head of the #TEAyudamos program at HUF and Member of the #JuntosXEICáncer group
- Instructor in Advanced Life Support by the National CPR Plan of the Spanish Society of Intensive Care Medicine, Critical Care and Coronary Units (SEMIC and UC)
- Member of: Care Subcommittee (HUF), Care Committee (HUF), Ulcer and Wound Working Group Secretariat (HUF)

Professors

Ms. Álvarez Carrascal, Inmaculada

- ♦ Nurse in Pediatric ENT, Gregorio Marañón General University Hospital
- ♦ Nurse in Pediatric ENT, Gregorio Marañón General University Hospital
- ♦ Instrumentalist nurse in operating rooms of Churchill Hospital
- ♦ Nurse in various hospital and health center services in the Andalusian Health Service
- ♦ Diploma in Nursing from the University of Seville
- ♦ Expert in Critical Care by the Complutense University of Madrid

Mr. Ruiz Henestrosa Campos, , Manuel Jesús

- ♦ Head of the Emergency Unit in HGU Gregorio Marañón
- ♦ Attending Nurse, in HGU Gregorio Marañón Hospital
- ♦ in Attending Nurse Puerta del Mar General University Hospital from Cádiz
- ♦ Associate Professor Practicum III of Nursing
- ♦ Collaborating teacher at the International School of Health Sciences
- ♦ Nebrija University Collaborating Professor
- ♦ Esforem Collaborating Teacher
- ♦ Diploma in Nursing Esforem Collaborator Nurse Educator
- ♦ Diploma in Nursing





Mr. González Palacios, Rubén

- ◆ Nurse in the Intensive Care Unit of Gregorio Marañón General: University Hospital
- ◆ Attending Nurse in the Internal Medicine Unit of the 12 de Octubre General University Hospital
- ◆ Nurse assistant in different Primary Care centers in the Community of Madrid
- ◆ Developer of the mobile application "Compatibility drugs" for intravenous compatibility of drugs

“ *A unique, key, and decisive educational experience to boost your professional development* ”

04

Structure and Content

This University Expert includes a syllabus prepared by an excellent team of health professionals with an extensive professional background in patient care in Intensive Care. Their healthcare experience and knowledge in this field is evident in a syllabus that covers the management and organization of these units, the most current techniques used in Life Support, as well as the management of pediatric patients and patients with respiratory disorders. All this, with content based on the most recent scientific evidence and the most innovative didactic material.





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A much more effective intensive care unit update process thanks to the numerous additional didactic resources at your disposal”

Module 1. Organization and Management of an Intensive Care Unit

- 1.1. Historical Review
- 1.2. Legislation
- 1.3. Professional Discretion
- 1.4. Features of the Critical Care Unit: ICU Equipment and Apparatus
- 1.5. Intensive Care Nursing
- 1.6. Role of the Critical Care Nurse: Burnout Syndrome
- 1.7. Intensive Care Unit Nursing Management
- 1.8. Security Culture
- 1.9. Humanization in the Intensive Care Unit

Module 2. Life Support

- 2.1. General Aspects
- 2.2. Basic Electrocardiography and Arrhythmias
- 2.3. Basic Life Support and AED in Adults
- 2.4. Peripartum Arrhythmia
- 2.5. Airway Management
- 2.6. Advanced Life Support in Adults
- 2.7. Routes of Adminstrating Medication
- 2.8. Resuscitation in Special Cases
- 2.9. Basic Life Support and AED in Children
- 2.10. Recognition and Management of Critically Ill Children
- 2.11. Advanced Airway Management in Pediatrics
- 2.12. Basics of Mechanical Ventilation in Pediatrics
- 2.13. Infusion Routes and Drugs in Pediatric CPR
- 2.14. Pediatric VAS Algorithms and Arrhythmia Treatment
- 2.15. Neonatal Resuscitation
- 2.16. Post-resuscitation Stabilization and Neonatal Transport



Module 3. Critical Care in Patients with Respiratory Disorders

- 3.1. Anatomophysiologic and Physiologic Memory of the Cardiocirculatory System
- 3.2. Acute Respiratory Failure
- 3.3. Adult Respiratory Distress Syndrome
- 3.4. Pulmonary Embolism
- 3.5. COPD Flare-up
- 3.6. Asthmatic Status
- 3.7. Pneumonia and Bronchopneumonia
- 3.8. Neuromuscular Alterations that Affect Respiration
- 3.9. Procedures: Oxygen Therapy
- 3.10. Procedures: Airway Access
- 3.11. Procedures: Aspiration of Tracheobronchial Secretions
- 3.12. Procedures: Thoracocentesis and Chest Drains
- 3.13. Extracorporeal Membrane Oxygenation System (ECMO)
- 3.14. Concept of Mechanical Ventilation. Respirators and Parameters
- 3.15. Mechanical Ventilation Methods
- 3.16. Ventilator Alarms
- 3.17. Nursing Care of Mechanically Ventilated Patients
- 3.18. Removing MV
- 3.19. Non-Invasive Mechanical Ventilation
- 3.20. Mechanical Ventilation in Tracheostomized Patients

Module 4. Critical Care for Paediatric Patients

- 4.1. Most Common Disorders in Newborns
- 4.2. Polytraumatized Children
- 4.3. Needs Assessment and Pediatric Rating Scales
- 4.4. Pediatric Assessment Triangle
- 4.5. Airway and Ventilatory Management for Critically Ill Pediatric Patients
- 4.6. Nursing Techniques for Critically Ill Pediatric Patients
- 4.7. Pediatric Postoperative Care
- 4.8. Pediatric Pain
- 4.9. Care for Premature Infants
- 4.10. End of Life Care

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 Intensive Care Unit Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma 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 Diploma in Intensive Care Unit 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.

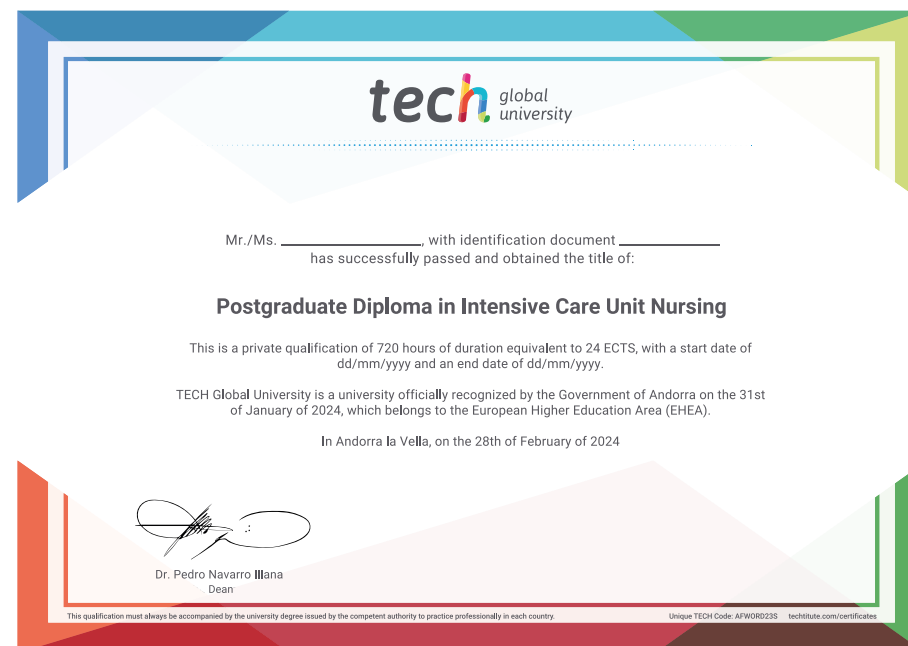
This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Intensive Care Unit Nursing**

Modality: **online**

Duration: **6 months**

Accreditation: **24 ECTS**



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University 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
development language
virtual classroom



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