

# Postgraduate Diploma ICU Management for Nursing

Endorsed by:



**tech** global  
university



## Postgraduate Diploma ICU Management for Nursing

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

Website: [www.techtute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-icu-management-nursing](http://www.techtute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-icu-management-nursing)

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# 01

# Introduction

The different difficulties and challenges present in ICU management require healthcare professionals to constantly update their skills and knowledge. In this way, the introduction of new action protocols for complex pathologies and disorders in critical patients reflects the need to incorporate the latest management postulates in the Intensive Care Unit into the daily work of nurses. With this in mind, TECH presents this advanced program, with which the student will be able to get up-to-date, in a 100% online format, with the most cutting-edge and effective ICU management techniques. All this, together with a faculty of excellence and the best multimedia resources in the educational field.



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*Incorporate the most advanced ICU nursing management methods into your daily work, delving into aspects such as hospital transport and the organization of healthcare resources”*

The current international social situation, dominated by pandemics, and different health crises, has highlighted the importance of intensive care units as a key service in the monitoring and treatment of critical patients. In this regard, the virulence and transmission capacity of COVID-19 forced the updating of numerous ICU care protocols, which is why the nursing professional needs to be up-to-date immediately in this area.

Therefore, this program offers participants a comprehensive view of ICU management, including coordination of multidisciplinary teams, critical decision making, resource management, and implementation of quality policies in the service. This ensures that nurses are kept up-to-date and can delve deeper, through 4 specialized modules, into the most advanced ICU management methods.

The Postgraduate Diploma in ICU Management for Nursing is developed in online mode, which offers the possibility of distance learning without having to travel. This methodology allows the students to organize themselves according to their availability and learning pace. In addition, the educational program has a prestigious faculty with extensive experience in this clinical area, and will provide the professional with all the keys to carry out a complete and up-to-date management of the ICU.

This **Postgraduate Diploma in ICU Management 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 Nurses in Intensive Care
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



*Get up to speed immediately with  
TECH and master the latest ICU  
healthcare organization strategies"*

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*The 100% online methodology with which this program is developed will allow you to catch up in a comfortable and flexible way”*

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

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive training programmed to train in real situations.

The design of this program focuses on Problem-Based Learning, in which the professional will have to try to solve the different professional practice situations that will arise throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

*This Postgraduate Diploma will provide you with numerous multimedia resources of great pedagogical rigor such as clinical case studies, in-focus videos or interactive summaries.*

*TECH's Relearning methodology will allow you to take advantage of every minute of study you invest, without interrupting your daily personal and professional activities.*



# 02

# Objectives

The main objective of this program is to provide the student with comprehensive training in the management of Intensive Care Units, as well as to develop new skills and competencies to coordinate multidisciplinary teams, make critical decisions, and efficiently manage available resources. With this program, the nurse will also acquire up-to-date knowledge in quality policies in the service, as well as in hospital transfer protocols.





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*Reach all your professional goals thanks to this Postgraduate Diploma, with which you will obtain a complete update in the area of ICU Management”*



## General Objectives

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- Update the necessary knowledge in the nursing care of critical patients, 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



*TECH's objectives are oriented to provide you with the most advanced techniques, protocols, and management methods. Enroll now and advance in your career"*





## Specific Objectives

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### 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. Hospital Transport

- ♦ Gain an in-depth knowledge of the different types of medical transport used today and their evolution throughout history
- ♦ Develop knowledge of the fundamental characteristics of each type of patient transport and transfer
- ♦ Prepare and supervise in-hospital and inter-hospital transfer of the adult critically ill patient

### Module 3. Research Methodology in Intensive Care Nursing

- ♦ Learn how to retrieve quality specialized information in the Health Sciences
- ♦ Handle different reference managers
- ♦ Design qualitative and quantitative research
- ♦ Know the different types of instruments for critical reading.
- ♦ Learn to write articles with a scientific structure, as well as to write case reports, reviews, articles, theses and dissertations

### Module 4. Latest Information on Coronavirus Infections

- ♦ Learn about the growth and evolution of Coronavirus in the world
- ♦ Delve into the microbiological characteristics of the disease
- ♦ Learn about the different epidemiological changes in coronavirus infections from their discovery to the present day
- ♦ Delve into the functioning of the immune system during Coronavirus infection
- ♦ Understand the pathogenesis and pathophysiology of coronavirus infections
- ♦ Know the main risk groups in Coronavirus infections
- ♦ Delve into the different methods of transmission of the disease
- ♦ Know the different methods of Biosafety in microbiology laboratories for the handling of Coronavirus samples
- ♦ Explore future challenges in the prevention, diagnosis and therapeutics of Coronavirus infections

# 03

## Course Management

This program stands out for having a reputable faculty with extensive experience in the health sector. The faculty has extensive experience in ICU management and is committed to providing participants with a comprehensive and up-to-date preparation in the area. Therefore, with this program, students will have the support and guidance of exceptional faculty to achieve their educational and professional goals in UCI management.





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*Delve into the methods of clinical management of the ICU in Nursing from the hand of a faculty of great prestige”*

## 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

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- 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 Gregorio Marañón General University Hospital
- ♦ 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"

## Co-Direction



### Ms. Lospitao Gómez, Sara

- ♦ Nurse in Intensive Care and Interventional Cardiology at HUF
- ♦ Intensive Care and Interventional Cardiology at Fuenlabrada University Hospital (HUF)
- ♦ Nurse Cardiac Surgery Post-Surgical Intensive Care Unit PCU 12 de Octubre Hospital
- ♦ Nurse Coronary Intensive Care Unit 12 de Octubre Hospital
- ♦ Nurse of the Interventional Cardiology Unit (Hemodynamics, EUS and Implants)
- ♦ Responsible for RRSS #TEAyudamos and Member of the group #JuntosxEICáncer
- ♦ Instructor for SVA by the National CPR Plan of SEMICYUC
- ♦ Member of: Care Sub-Commission (HUF), Care Commission (HUF), Secretary of the Ulcers and Wounds Working Group (HUF)





## Professors

### Ms. Álvarez Carrascal, Inmaculada

- ◆ Nurse in the ICU of the Gregorio Marañón General University Hospital
- ◆ Nurse in charge of ICU Safety at the Gregorio Marañón General University Hospital
- ◆ Instrumentalist nurse in operating room of Churchill Hospital
- ◆ Nurse assistant in various services of hospitals and health centers of the Andalusian Health Service
- ◆ Diploma in Nursing from the University of Seville
- ◆ Expert in Critical Care by the Complutense University of Madrid

### Mr. González Palacios, Rubén

- ◆ Nurse assistant in the Intensive Care Unit of the Gregorio Marañón General University Hospital
- ◆ Attending Nurse in the Internal Medicine Unit of the Doce de Octubre 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

### Mr. Ruiz Henestrosa Campos, Manuel Jesús

- ◆ Head of the Emergency Unit in HGU Gregorio Marañón
- ◆ Attending Nurse, in HGU Gregorio Marañón Hospital
- ◆ 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

# 04

## Structure and Content

The syllabus of this Postgraduate Diploma includes numerous relevant subjects of interest to nursing professionals who work or wish to work in ICU management, such as multidisciplinary team coordination, critical decision making, resource management, and implementation of quality policies in the service. In addition, the syllabus focuses on improving the skills and competencies of the participants, enabling them to play a key role in the efficient management of these units and guarantee the quality of health care services in them.



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*This is the most complete and up-to-date syllabus for nursing professionals who wish to incorporate the most advanced ICU management techniques into their daily work"*

### 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. Hospital Transport

- 2.1. Intrahospital Transfer of the Critically Ill Patient
- 2.2. Out-of-hospital Transfer and ISOBAR
- 2.3. Intrahospital Neonatal Transport
- 2.4. Ambulance Equipment
- 2.5. Cardiopulmonary Resuscitation Trolleys and Backpacks
- 2.6. Driving and Road Safety
- 2.7. Immobilization and Transfer

### Module 3. Research Methodology in Intensive Care Nursing

- 3.1. Recovery of Quality Information Specializing in Health Sciences
  - 3.1.1. Development of a Bibliographic Search
  - 3.1.2. Knowledge of Different Information Sources: General Search Engines (Google Scholar, Scopus), Databases (PubMed, Embase, Cinahl) and Clearinghouse Clinical Practice Guidelines
  - 3.1.3. Designing Complex Search Strategies
  - 3.1.4. Refinement of Search Results
  - 3.1.5. Creating Bibliographic Alerts





- 3.2. Bibliographic Reference Management
  - 3.2.1. Introduction to Bibliographic Reference Managers
  - 3.2.2. Importing References into the Zotero Reference Manager
  - 3.2.3. PDF Metadata Extraction
  - 3.2.4. Use of Tags or Metatags to Classify the Bibliography
  - 3.2.5. Including References in the Text (Word). Vancouver Style
  - 3.2.6. Social Web and Group Work
- 3.3. Critical Reading on Outcomes Research
  - 3.3.1. Introduction Critical Reading
  - 3.3.2. Some Basic Concepts in Epidemiology
  - 3.3.3. Qualitative Research Designs
  - 3.3.4. Quantitative Research Designs
  - 3.3.5. Instruments for Critical Reading
- 3.4. How to Prepare a Research Protocol
  - 3.4.1. Headings that Make Up the Protocol of a Research Project
  - 3.4.2. Editorial Staff articles with Scientific Structure
  - 3.4.3. Writing a Case Report, Review, Qualitative Research Article, and a Thesis or Dissertation
  - 3.4.4. Style in Scientific Communication
- 3.5. Master's Thesis: Academic Work of Bibliographic Review and Research
  - 3.5.1. The Importance of a Master's Thesis
  - 3.5.2. Proposal and Feasibility of a Master's Thesis
  - 3.5.3. Recommendations for the Preparation of the Master's Thesis
  - 3.5.4. Development and Evaluation of the Master's Thesis
  - 3.5.5. Recommendations for the Defence of the Master's Thesis

## Module 4. Latest Information on Coronavirus Infections

- 4.1. Discovery and Evolution of Coronaviruses
  - 4.1.1. Discovery of Coronaviruses
  - 4.1.2. Global Trends in Coronavirus Infections
- 4.2. Main Microbiological Characteristics and Members of the Coronavirus Family
  - 4.2.1. General Microbiological Characteristics of Coronaviruses
  - 4.2.2. Viral Genome
  - 4.2.3. Principal Virulence Factors
- 4.3. Epidemiological Changes in Coronavirus Infections from its Discovery to the Present
  - 4.3.1. Morbidity and Mortality of Coronavirus Infections from their Emergence to the Present
- 4.4. The Immune System and Coronavirus Infections
  - 4.4.1. Immunological Mechanisms Involved in the Immune Response to Coronaviruses
  - 4.4.2. Cytokine Storm in Coronavirus Infections and Immunopathology
  - 4.4.3. Modulation of the Immune System in Coronavirus Infections. Topics
- 4.5. Pathogenesis and Pathophysiology of Coronavirus Infections
  - 4.5.1. Pathophysiological and Pathogenic Alterations in Coronavirus Infections
  - 4.5.2. Clinical Implications of the Main Pathophysiological Alterations
- 4.6. Risk Groups and Transmission Mechanisms of Coronaviruses
  - 4.6.1. Main Sociodemographic and Epidemiological Characteristics of Risk Groups Affected by Coronavirus
  - 4.6.2. Coronavirus Mechanisms of Transmission
- 4.7. Natural History of Coronavirus Infections
  - 4.7.1. Stages of Coronavirus Infection
- 4.8. Latest Information on Microbiological Diagnosis of Coronavirus Infections
  - 4.8.1. Sample Collection and Shipment
  - 4.8.2. PCR and Sequencing
  - 4.8.3. Serology Testing
  - 4.8.4. Virus Isolation





- 4.9. Current Biosafety Measures in Microbiology Laboratories for Coronavirus Sample Handling
  - 4.9.1. Biosafety Measures for Coronavirus Sample Handling
- 4.10. Up-to-Date Management of Coronavirus Infections.
  - 4.10.1. Prevention Measures.
  - 4.10.2. Symptomatic Treatment.
  - 4.10.3. Antiviral and Antimicrobial Treatment in Coronavirus Infections.
  - 4.10.4. Treatment of Severe Clinical Forms
- 4.11. Future Challenges in the Prevention, Diagnosis, and Treatment of Coronavirus.
  - 4.11.1. Global Challenges for the Development of Prevention, Diagnostic, and Treatment Strategies for Coronavirus Infections

“ With this program you will be able to combine your studies and your work, since its methodology has been designed to adapt to the circumstances of the working professional”

# 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. 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 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 ICU Management for Nursing guarantees, in addition to the most rigorous and up-to-date training, access to a Postgraduate Diploma 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 program will allow you to obtain your **Postgraduate Diploma in the ICU Management 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** title 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 the ICU Management for Nursing**

Modality: **online**

Duration: **6 months**

Credits: **6 ECTS**



\*Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.



## Postgraduate Diploma ICU Management for Nursing

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

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