

Postgraduate Certificate

Monitoring of the Critically Ill Donor
and Transplant Patient for Nursing



Postgraduate Certificate

Monitoring of the Critically Ill Donor and Transplant Patient 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/monitoring-critically-ill-donor-transplant-patient-nursing

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

Certificate

p. 28

01

Introduction

The World Health Organization estimates that more than 150,000 organ transplants are performed globally each year. Nurses play a crucial role in the care of Critically Ill Transplant Patients, as they are responsible for the monitoring process. Therefore, professionals monitor vital signs to assess the clinical status of individuals. However, clinical monitoring presents a number of challenges for nurses to address in order to provide high quality care. For this reason, TECH implements a 100% online university program for professionals seeking to equip themselves with the most advanced resources to successfully overcome the challenges that occur in this demanding healthcare field.



“

With this Postgraduate Certificate, based on Relearning, you will obtain advanced competencies for Critical Patient Monitoring and participate in the prevention of complications derived from organ transplantation”

Adult Critically Ill Patients suffering from skin disorders require intensive care by nurses. These dermatological conditions can be caused by a variety of causes, ranging from traumatic injuries to bacterial infections and even autoimmune diseases. In view of this, professionals must constantly monitor the skin of these users, paying special attention to factors such as coloration, texture or the appearance of signs of skin irritation. In addition, these individuals have a higher risk of developing pressure ulcers due to the fragility of their dermis. Therefore, the nursing staff has to implement preventive measures such as frequent changes of position or the application of protective dressings in areas of vulnerabilities.

In this context, TECH is developing a very complete Postgraduate Certificate in Monitoring of the Critically Ill Donor and Transplant Patient for Nursing. This syllabus will provide graduates with the most effective techniques for monitoring tissue perfusion, while analyzing the management of drugs susceptible to generate side effects. At the same time, the syllabus will deepen in the approach of clinical cases related to temperature alterations, among which Hypothermia stands out. In this regard, cutting-edge devices such as the ArticSun and Coolgard IV will be addressed, aimed at controlling the different body temperatures. The academic materials will also highlight the importance of ethical care for both critical patients and their families. Therefore, graduates will adequately carry out the informed consent process and respect the autonomy of individuals to make decisions such as refusal of treatment.

On the other hand, the university program is based on a 100% online methodology, so that nurses can complete the program comfortably. The only thing they will need to access the academic syllabus will be a device with Internet access. In addition, TECH uses the state-of-the-art Relearning system, which guarantees a progressive and natural learning process.

This Postgraduate Certificate in **Monitoring of the Critically Ill Donor and Transplant Patient 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 Advanced Life Support and Critical Patient Monitoring
- ♦ 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



The 100% online methodology of this academic itinerary will guarantee you an effective mastery of the most complex concepts and without predetermined schedules”

“

You will deepen your understanding of Mental Disturbance Monitoring and recognize signs of disturbance to provide users with the care they require”

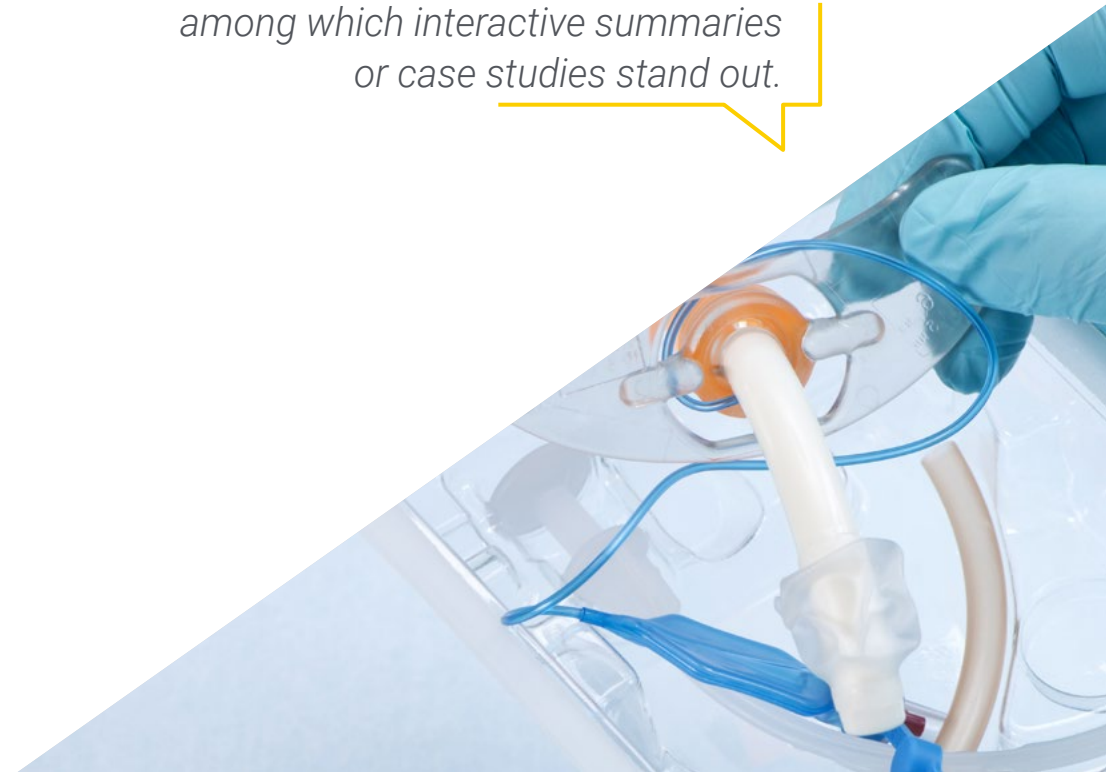
The program's teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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.

You will distinguish yourself by having an ethical conscience, based on respect for patient autonomy, empathy and confidentiality.

You will update your knowledge using the most innovative didactic tools of the academic system, among which interactive summaries or case studies stand out.



02

Objectives

Nurses will acquire a comprehensive approach to organ donation and transplantation procedures, including postoperative care. In this way, professionals will gain advanced competencies in Critical Patient Monitoring. This will enable them to interpret vital signs, assess the function of transplanted limbs and quickly detect possible complications. On the other hand, professionals will be characterized by their high care ethics, providing informed consent and respecting users' refusal of treatments.





“

You will develop skills to optimize your care of critical users, using the most innovative monitoring techniques to evaluate the function of transplanted organs”



General Objectives

- ◆ Assess the possible control, monitoring and care measures in the Critically Ill Patient according to the needs that may have been identified
- ◆ Establish the different needs and care that adult critical patients may require depending on whether they are Donor Patients or Transplant Patients
- ◆ Acquire skills in the ongoing monitoring of transplant donors and recipients, including assessment of vital signs, interpretation of laboratory data and imaging studies, and early detection of complications
- ◆ Examine the different tools that artificial intelligence can offer in terms of monitoring the critically ill adult patient





Specific Objectives

- ♦ Analyze the different devices for control and monitoring, both invasive and non-invasive, according to the alterations and needs of the critically ill adult patient
- ♦ Determine the different ethical and legal options available to critically ill adult patients and their family regarding the application of care and various treatments according to their wishes



TECH brings you closer to your professional goals through this updating program, with which you will face the current challenges in the Monitoring of the Critically Ill Donor and Transplanting Patient”

03

Course Management

In order to maintain intact the outstanding quality that defines all its university programs, TECH has carried out a rigorous selection process to choose the teaching staff of this Postgraduate Certificate. Thanks to this, this program brings together true references in the field of Advanced Life Support and Critical Patient Monitoring. These professionals are characterized both by their exhaustive knowledge on these subjects and by their extensive professional background in prestigious institutions. This is a guarantee for graduates, who will enjoy an immersive learning experience that will take their daily practice to a higher level.



“

You will be advised at all times by the teaching team, formed by professionals with extensive experience in Critical Patient Monitoring”

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

Ms. Soto Pérez de Burgos, Andrea

- ◆ Instrumentalist Nurse in the Surgical Area of the Viamed Los Manzanos Hospital
- ◆ Assistance Nurse at the Igual a Ti Association, Logroño
- ◆ Assistance Nurse at the Santa María de Garoña Nuclear Power Plant
- ◆ Assistance Nurse at the San Prudencio Integral Care Center for the Elderly
- ◆ Assistance Nurse at the Palliative Care Center of the Organization of Médica Vitoria
- ◆ Assistance Nurse at the Resuscitation Unit of the Santiago Apóstol Regional Hospital
- ◆ Master's Degree in Proactive Nursing Care by the Catholic University of Avila
- ◆ University Diploma in Surgical Instrumentation in Orthopedic Surgery and Traumatology in Nursing
- ◆ University Diploma in Emergencies and Nursing Attention to Critical Patients
- ◆ University Graduate in Nursing from the University of León

Ms. Homobono Urabayan, Janire

- ◆ Nurse in the Intensive Care Unit at the Viamed Los Manzanos Clinic
- ◆ Nurse in the Health Service of La Rioja
- ◆ Nurse specialized in Residential Services Management
- ◆ Master's Degree in Intensive Care Nursing at the European University Miguel de Cervantes
- ◆ Degree in Nursing from the University of La Rioja

04

Structure and Content

This program will provide nurses with a solid understanding of the procedures involved in organ donation and transplantation. The academic itinerary will delve into the management of critical patients with neurological disorders, deepening in their pathophysiology and treatment methods. Likewise, the syllabus will deepen in the analysis of drugs susceptible to generate adverse effects during tissue perfusion. Therefore, graduates will obtain advanced monitoring skills for the continuous evaluation of users (including the interpretation of vital signs, laboratory data and imaging studies). Teaching materials will also emphasize ethical issues such as the importance of informed consent.





“

An updated and comprehensive syllabus, configured as a high quality specialization tool of excellent quality”

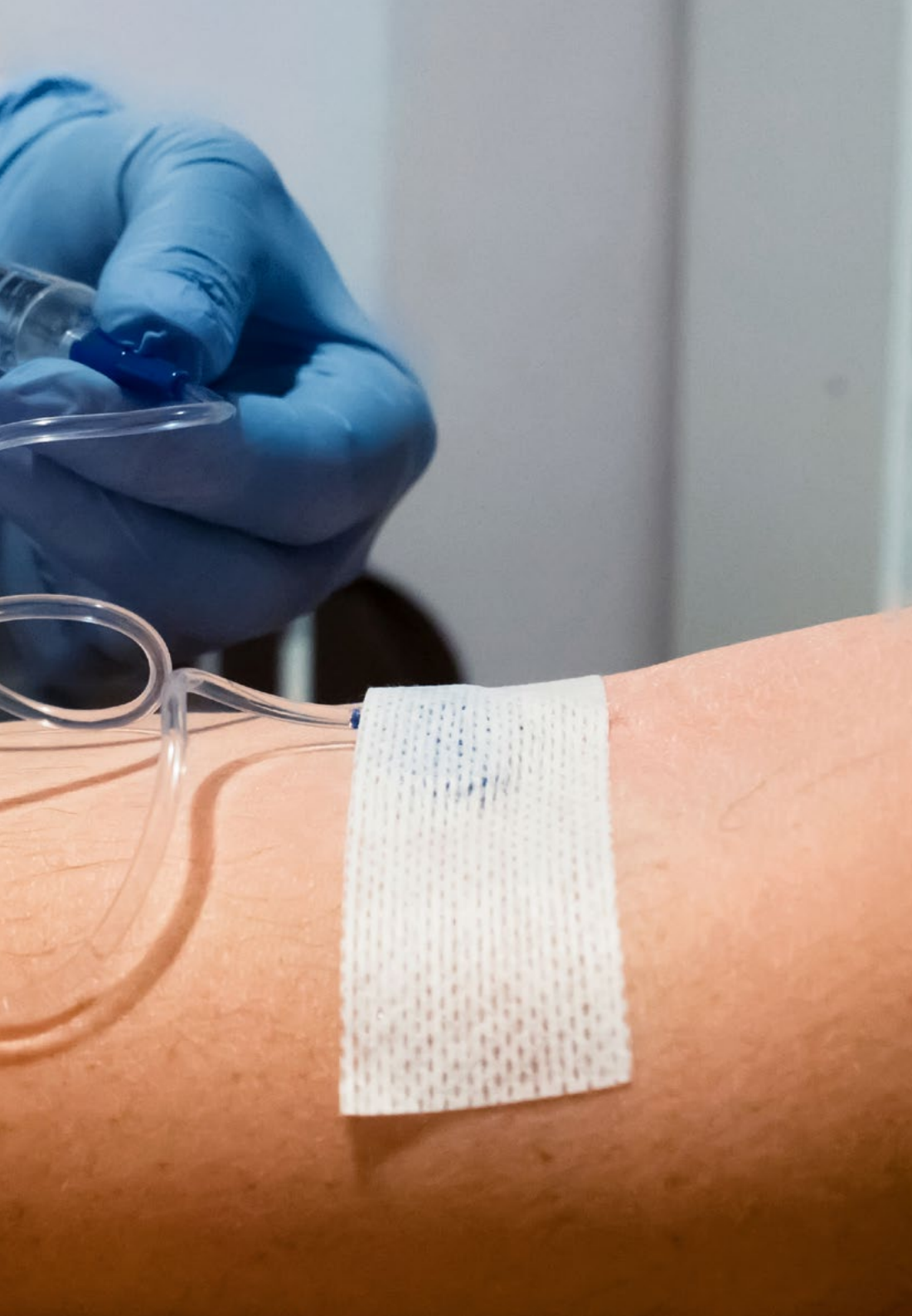
Module 1. Monitoring of the Adult Critical Patient with Cutaneous, Thermal, Neurological, Traumatological, Abdominal, Donor or Transplanted Alterations for Nursing

- 1.1. Monitoring of the Adult Critically Ill Patient Related to Cutaneous Alterations for Nursing
 - 1.1.1. Tissue Perfusion Monitoring
 - 1.1.2. Management of Drugs Susceptible to Generate Adverse Effects
 - 1.1.3. Recommendations to Improve Tissue Perfusion
- 1.2. Monitoring of the Critically Ill Adult Patient Related to Temperature Alterations for Nursing
 - 1.2.1. Temperature Monitoring
 - 1.2.2. Hyperthermia Control
 - 1.2.3. Controlled Hypothermia: ArticSun and Coolgard IV
- 1.3. Monitoring of the Critically Ill Adult Patient Related to Neurological Alterations for Nursing
 - 1.3.1. Pathophysiology
 - 1.3.2. Monitoring of Intracranial Pressure (ICP)
 - 1.3.3. Cerebral Oximetry
 - 1.3.4. Monitoring of Mental Alterations
- 1.4. Monitoring of the Critically Ill Adult Patient Related to Traumatological Alterations for Nursing
 - 1.4.1. Control and Monitoring of Spinal Cord Trauma
 - 1.4.2. Control and Monitoring of Thoracic and/or Abdominal Trauma
 - 1.4.3. Control and Monitoring of Pelvic Trauma
- 1.5. Intra-Abdominal Pressure Monitoring (IAP) for Nursing
 - 1.5.1. Indications
 - 1.5.2. Forms of Measurement
 - 1.5.3. Interpretation
- 1.6. Monitoring of the Donor Patient for Nursing
 - 1.6.1. Epidemiology of Donation
 - 1.6.2. Maastricht Classification
 - 1.6.3. Management and Treatments



- 1.7. Monitoring of the Adult Critically Ill Transplanted Patient for Nursing
 - 1.7.1. Renal Transplant
 - 1.7.2. Liver Transplant
 - 1.7.3. Lung Transplant
 - 1.7.4. Cardiac Transplantation
- 1.8. Ethics of Care to the Critically Ill Patient and His Family for Nursing
 - 1.8.1. Informed Consent
 - 1.8.2. Refusal of Treatment
 - 1.8.3. Limitation of the Therapeutic Effort, Life Support, Interruption of CPR
- 1.9. Care of the Family of the Critical Adult for Nursing
 - 1.9.1. Promotion of Collaboration and Participation
 - 1.9.2. Bioethical and Legal Aspects
 - 1.9.3. Practical Recommendations
- 1.10. Herb-Based Monitoring
 - 1.10.1. Pathophysiological and Technological Bases
 - 1.10.2. Applications
 - 1.10.3. Advantages and Disadvantages

“*An academic institution that adapts to your needs, designing a program that will allow you to reconcile your daily activities with a quality degree. 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.



“

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.

“

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.

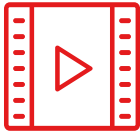
Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

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

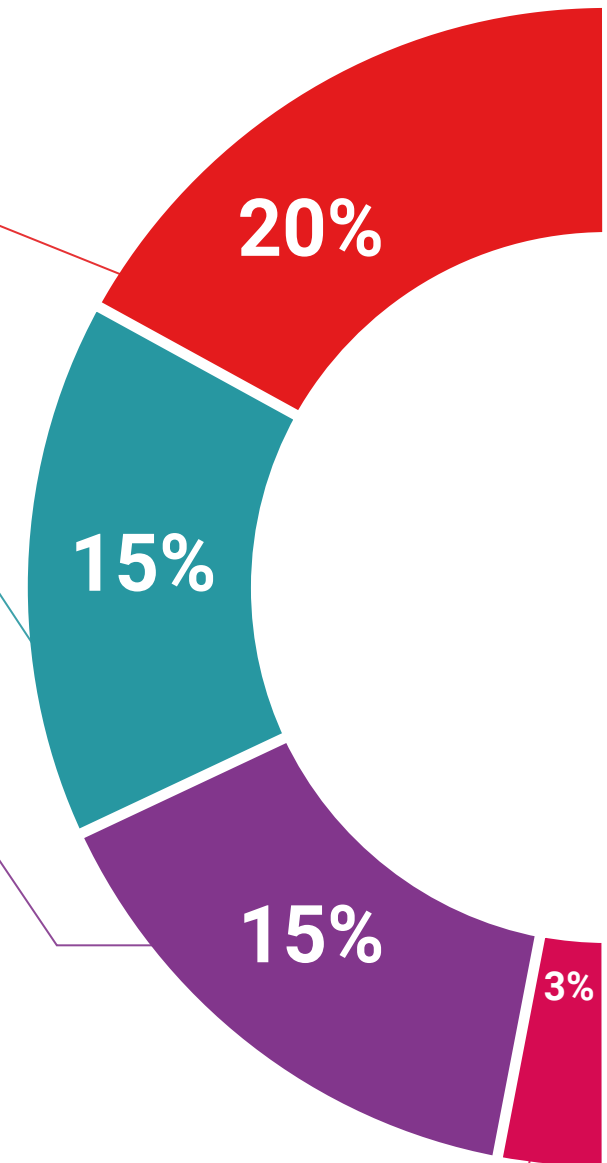
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

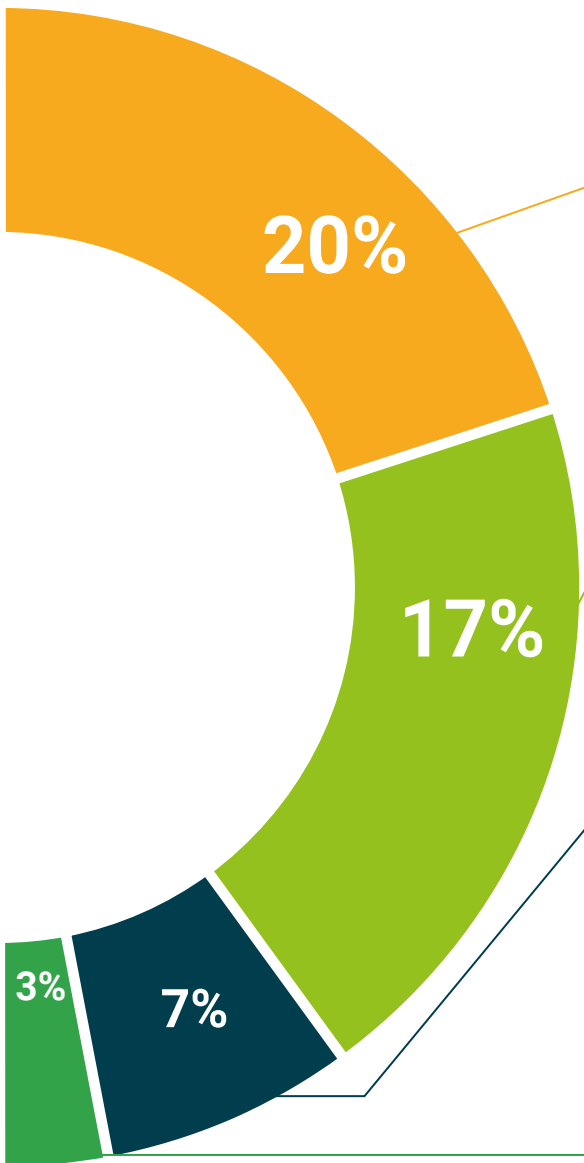
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 Monitoring of the Critically Ill Donor and Transplant Patient 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.



“

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 SMonitoring of the Critically Ill Donor and Transplant Patient 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 Monitoring of the Critically Ill Donor and Transplant Patient for Nursing**

Modality: **Online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





Postgraduate Certificate

Monitoring of the Critically Ill Donor
and Transplant Patient for Nursing

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

Postgraduate Certificate

Monitoring of the Critically Ill Donor
and Transplant Patient for Nursing

