

# Postgraduate Certificate

Cardiovascular and Respiratory System  
Emergencies in the Outpatient Setting  
for Nursing





## Postgraduate Certificate Cardiovascular and Respiratory System Emergencies in the Outpatient Setting for Nursing

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 4 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/nursing/postgraduate-certificate/cardiovascular-respiratory-system-emergencies-outpatient-setting-nursing](http://www.techtute.com/us/nursing/postgraduate-certificate/cardiovascular-respiratory-system-emergencies-outpatient-setting-nursing)

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# 01

# Introduction

The advent of Industry 4.0 has had a significant impact on the field of outpatient emergencies, where nurses are confronted daily with critical situations that demand an efficient and immediate response. In order to optimize their clinical outcomes, nurses need to update their skills on a regular basis to handle the most cutting-edge therapeutic methods. This is especially necessary for managing conditions involving delicate organs such as the heart or the respiratory tract, as patients' lives depend on it. In this context, TECH presents a revolutionary university program that brings together the most effective diagnostic techniques to stabilize patients in critical conditions. In addition, it is taught in a flexible 100% online mode.





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*Through this Postgraduate Certificate based on Relearning, you will implement the most optimal therapeutic measures such as Hypovolemic Shock to stabilize individuals in outpatient emergencies”*

The World Health Organization warns, through a recent report, that there has been an increase in the rate of deaths due to Cardiovascular Diseases. In this regard, it indicates that the main condition is heart failure, which has killed approximately 17.9 million people in recent years. Faced with this situation, the organization urges nursing professionals to specialize holistically in the management of these cardiac pathologies in the outpatient setting in order to optimize the clinical picture of the victims and prevent additional complications such as hemorrhages.

To support them in this task, TECH launches a cutting-edge Postgraduate Certificate in Cardiovascular and Respiratory System Emergencies in the Outpatient Setting for Nursing. The study plan will delve into the most common critical conditions in these systems, taking into account factors such as their symptomatology, most appropriate treatment and possible risks. Thanks to this, professionals will recognize with immediacy the signs of a wide range of pathologies, among which Arrhythmias, Syncope and Hemotypsis stand out. In this way, nurses will be highly qualified to implement the most appropriate diagnostic procedures to stabilize individuals until their arrival to the hospital center.

On the other hand, this academic pathway is taught in a completely online format, which gives professionals the flexibility to plan their schedules. In addition, the Relearning system, based on the repetition of key concepts to fix the knowledge, will facilitate an effective and rigorous update. This combination of accessibility and innovative pedagogical approach will ensure that participants acquire practical skills to excel in the field of Cardiovascular and Respiratory Emergencies in the Outpatient Setting. The only requirement is that graduates have an electronic device with an Internet connection, in order to immerse themselves in the Virtual Campus and enjoy the most dynamic educational resources on the market.

This **Postgraduate Certificate in Cardiovascular and Respiratory System Emergencies in the Outpatient Setting for Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of case studies presented by experts in outpatient Emergencies and medical Emergencies
- ♦ 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



*You will have the support of the largest online academic institution in the world, TECH with the latest educational technology at your disposal"*

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*Are you looking to incorporate the most effective diagnostic techniques to address respiratory emergencies into your routine clinical practice? Achieve it through this university program”*

The program's teaching staff includes professionals from the sector who contribute their work experience to this specializing 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 delve into the monitoring of vital signs to ensure that users have an optimal heart and respiratory rate.*

*The 100% online methodology characteristic of this program will allow you to enjoy an excellent update without depending on strict pre-established schedules.*

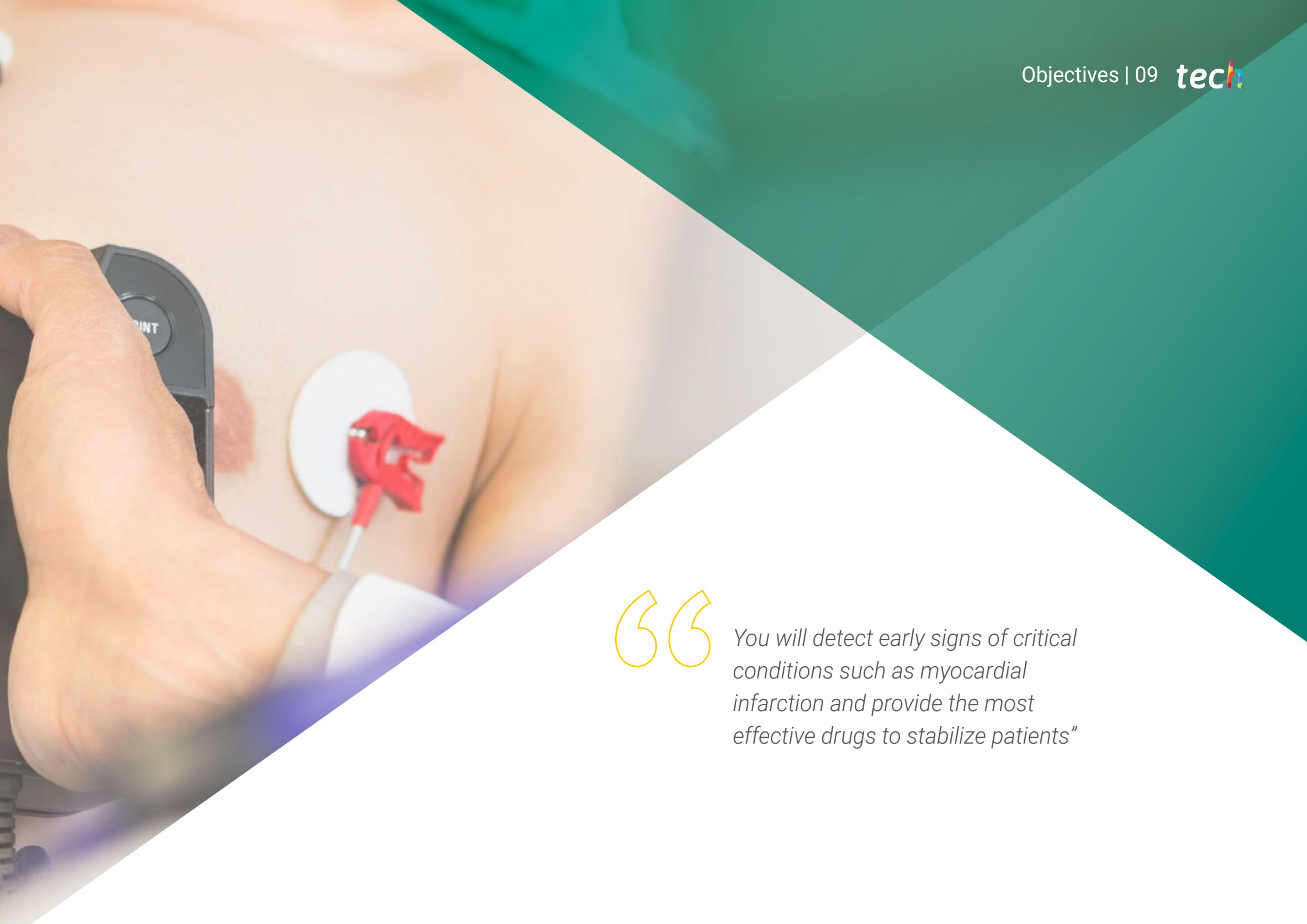


# 02 Objectives

Through this Postgraduate Certificate, nurses will be highly qualified to handle a variety of Cardiovascular and Respiratory Emergencies in the outpatient Setting. In this sense, graduates will develop clinical skills aimed at the early recognition of symptoms of pathologies such as Arrhythmia, Heart Failure or Pleural Effusions. In this way, the professionals will carry out the most avant-garde therapeutic methods to optimize the condition of the users during their transfer to the hospital center. Therefore, experts will contribute to improve recovery prognoses considerably.







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*You will detect early signs of critical conditions such as myocardial infarction and provide the most effective drugs to stabilize patients”*



## General Objectives

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- ♦ Analyze the management of multiple casualty incidents and catastrophes
- ♦ Identify diagnostic and therapeutic techniques in emergency situations
- ♦ Delve into the principles of pharmacology as applied to medical emergencies
- ♦ Examine the most innovative emergency protocols and procedures



*You will learn valuable lessons through the resolution of real cases in simulated learning environments”*





## Specific Objectives

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- ◆ Define the different arrhythmias, syncope and acute chest pains, using the appropriate tools and methods to identify each condition
- ◆ Address the immediate management of serious cardiovascular emergencies, such as acute coronary syndrome (code infarction), pericarditis with cardiac tamponade, and heart failure, ensuring rapid and effective intervention
- ◆ Delve into management protocols for critical conditions such as acute pulmonary edema, deep vein thrombosis (DVT), and pulmonary thromboembolism (PTE), based on updated clinical guidelines
- ◆ Analyze high-risk situations such as aortic dissection, hypertensive emergencies, and shock, applying best practices and therapeutic strategies to stabilize the patient and improve clinical outcomes
- ◆ Define the main respiratory emergencies, understanding their clinical manifestations and diagnostic criteria for timely intervention
- ◆ Examine the different approaches to Pneumonia and exacerbations of COPD, applying clinical guidelines to improve prognosis and patient recovery
- ◆ Delve into how to properly treat conditions such as pleuritis and pleural effusion, as well as pneumothorax, using specific techniques and procedures to alleviate symptoms and prevent complications
- ◆ Analyze cases of hemoptysis, applying appropriate therapeutic strategies to control hemorrhage and stabilize the patient, ensuring safe and effective care

03

# Course Management

TECH's priority is to offer the most holistic and up-to-date university programs in the educational market, which is why it carries out a rigorous process to constitute its respective teaching staff. Thanks to this, the present Postgraduate Certificate brings together the best specialists in the field of Cardiovascular and Respiratory System Emergencies in the Outpatient Setting. These professionals have an extensive professional background, where they have optimized the general well-being of numerous patients in critical conditions. Therefore, nurses have the guarantees they demand to access an immersive experience that will significantly broaden their professional horizons.





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*Get updated in Cardiovascular and Respiratory System Emergencies in the Outpatient Setting by the best experts in the field. Launch your professional career with TECH!”*

## Management



### Dr. Sendra Más, Juan Amaro

- ♦ Assistant Physician of the Emergency Service at the Vega Baja Hospital. Alicante, Spain
- ♦ Emergency Physician in the Specialized Medical Unit (UME 1)
- ♦ Doctor in the Emergency Medical Attention Service (SAMU)
- ♦ Medical Helicopter Doctor
- ♦ Degree in Medicine and Surgery from the University of Alicante
- ♦ Specialist in Family and Community Medicine
- ♦ Accredited Professor of the Spanish Society of Emergency Medicine
- ♦ Member of the Spanish Society of Emergency Medicine

## Professors

### Dr. Perales Cano, Raquel

- ♦ Specialist in Family and Community Medicine
- ♦ Primary Care Physician at La Loma Health Center
- ♦ Specialist of the Emergency Department at the Vega Baja Hospital
- ♦ Physician of the Emergency Medicalized Unit 1 of the Murcian Health Service
- ♦ Health Professional of Samu

### Dr. López Llames, Aurora

- ♦ Medical Specialist in Otorhinolaryngology
- ♦ Head of the Department of Otorhinolaryngology at the University Hospital of Torrevieja
- ♦ Specialist Physician in Menorca Ib-Salut
- ♦ Otorhinolaryngologist at Asturias Central University Hospital
- ♦ Master's Degree in Clinical Management from the Open University of Catalonia
- ♦ Graduate in Medicine and Surgery from the University of Oviedo

**Dr. Zazo Menargues, Juan Manuel**

- ♦ Primary Care Physician specialized in the Family and Community area
- ♦ Medical Coordinator of El Raval Health Center in Elche
- ♦ Primary Care Physician at the San Fermín Health Center
- ♦ Researcher of the Department of Clinical Medicine of CEU Cardenal Herrera University

**Dr. Fernández Martínez, María Ángeles**

- ♦ Biochemist-Nutritionist-Phytotherapist Responsible for Natural Life Nutrition Center
- ♦ Manager of the Parapharmacy, Dermopharmacy, Nutricosmetics and Phytotherapy Line
- ♦ Degree in Biochemistry from the University of Valencia
- ♦ University Expert in Nutrition, Dietetics and Diet Therapy
- ♦ Expert in Microbiological Analysis of Food
- ♦ Expert in Prevention and Treatment with Nutrition, Diet and Cancer
- ♦ Expert in Clinical and Vegetarian Sports Nutrition
- ♦ Specialist in Food Intolerances and the Study of the Intestinal Microbiota
- ♦ Numerous courses of study in Intestinal Microbiota, Analysis Methods and Applications
- ♦ Diploma in Natural and Orthomolecular Medicine
- ♦ Expert in the current use of Nutricosmetics and Nutraceuticals in general
- ♦ Expert in Point of Sale Management in the Pharmacy and Parapharmacy Office
- ♦ Member of: Spanish Society of Probiotics and Prebiotics (SEPyP), Spanish Society of Dietetics (SEDCA) and Spanish Society of Nutrition (SEÑ)

**Dr. Medina Martínez, María Ángeles**

- ♦ Medical Director and Cofounder of Healthy Blue Bits
- ♦ Family and Community Medicine Specialist of the Ministry of Universal Health of the Valencian Government
- ♦ Co-founder of Toubabs Team
- ♦ Degree in Medicine from the University of Miguel Hernández de Elche
- ♦ Postgraduate degree in Clinical Management from the Open University of Catalonia
- ♦ Postgraduate degree in Public and Community Health from the University of Murcia
- ♦ Member of: ASD (Vocal), SoVaMFIC (President) and Forum of Primary Care Physicians of the Valencian Region

**Dr. Gavilán Martín, Cristina**

- ♦ Assistant Physician of Pediatric Emergencies at the Elche General University Hospital
- ♦ Specialist in Family and Community Medicine
- ♦ Doctor in Medicine by the Miguel Hernández University of Elche
- ♦ Degree in Medicine and Surgery from the University of Alicante.
- ♦ APLS credential by the American Academy of Pediatrics and the American College of Pediatrics
- ♦ Professor of Master's Degrees and postgraduate courses
- ♦ Member of: The Spanish Society of Pediatric Emergencies (SEUP)

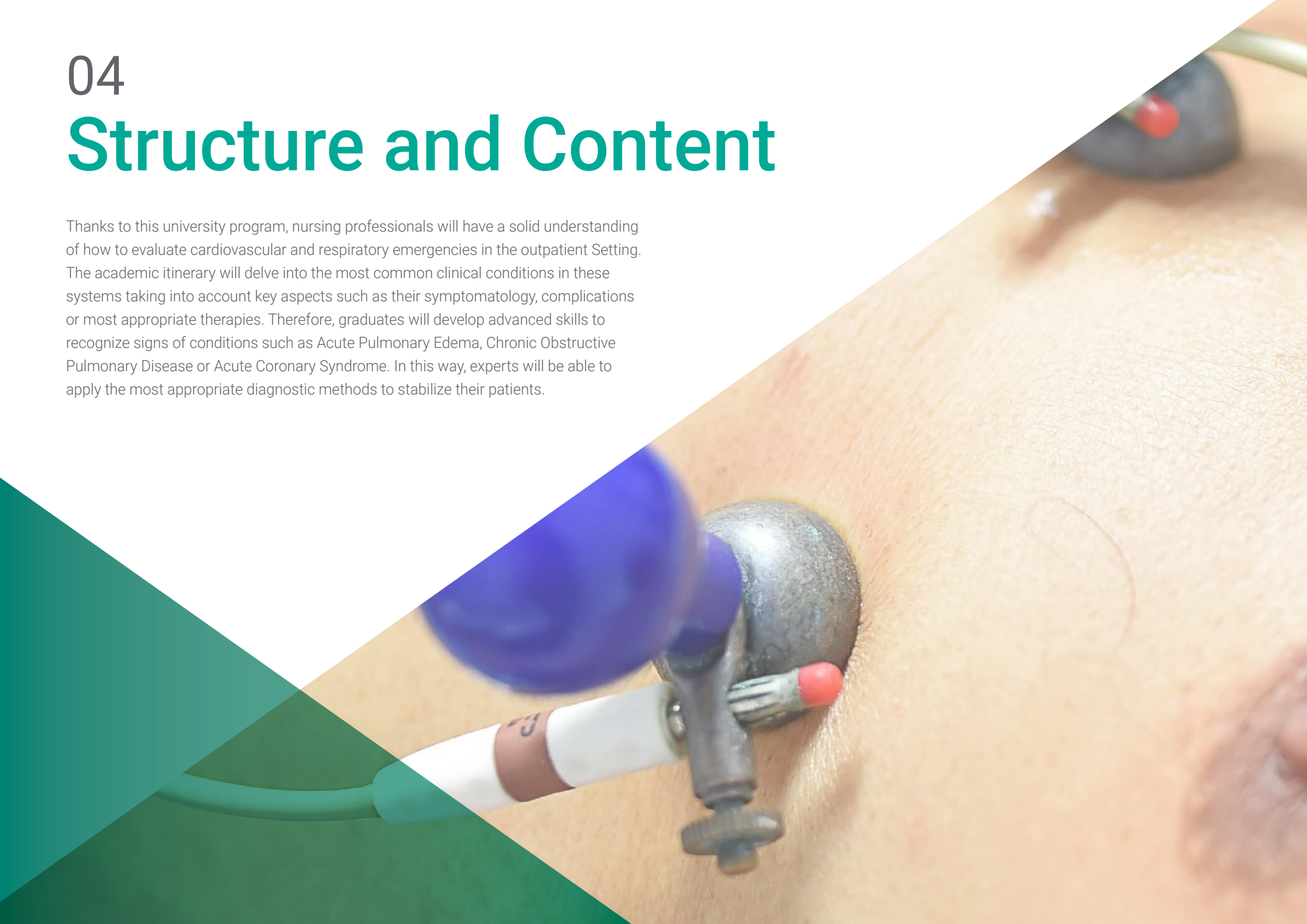
**Dr. Pérez Marín, Estefanía**

- ♦ Medical Specialist in Mental Health
- ♦ Medical Specialist in Psychiatry at the General University Hospital of Elche
- ♦ Degree in Medicine and Surgery from Miguel Hernández University of Elche
- ♦ Expert in Mental Health Emergencies

# 04

## Structure and Content

Thanks to this university program, nursing professionals will have a solid understanding of how to evaluate cardiovascular and respiratory emergencies in the outpatient setting. The academic itinerary will delve into the most common clinical conditions in these systems taking into account key aspects such as their symptomatology, complications or most appropriate therapies. Therefore, graduates will develop advanced skills to recognize signs of conditions such as Acute Pulmonary Edema, Chronic Obstructive Pulmonary Disease or Acute Coronary Syndrome. In this way, experts will be able to apply the most appropriate diagnostic methods to stabilize their patients.







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*You will handle the most sophisticated therapeutic procedures to ensure the stabilization of critically ill patients with cardiac and respiratory tract conditions during their transfer to the hospital center”*

### Module 1. Cardiovascular Emergencies

- 1.1. Arrhythmias
- 1.2. Syncope
- 1.3. Acute Chest Pain
- 1.4. Acute Coronary Syndrome The Heart Attack Code
- 1.5. Pericarditis, Cardiac Tamponade
- 1.6. Heart Failure
- 1.7. Acute Pulmonary Edema
- 1.8. Deep Vein Thrombosis (DVT)
- 1.9. Pulmonary Thromboembolism (PTE)
- 1.10. Aortic Dissection
- 1.11. Hypertensive Emergencies
- 1.12. Shock

### Module 2. Respiratory Emergencies

- 2.1. Respiratory Emergencies
- 2.2. Pneumonia
- 2.3. COPD Exacerbation
- 2.4. Pleuritis and Pleural Effusion
- 2.5. Pneumothorax
- 2.6. Hemoptysis





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*You will have unrestricted access to all the contents of the Virtual Campus and you will be able to download them to consult them whenever you wish. 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.



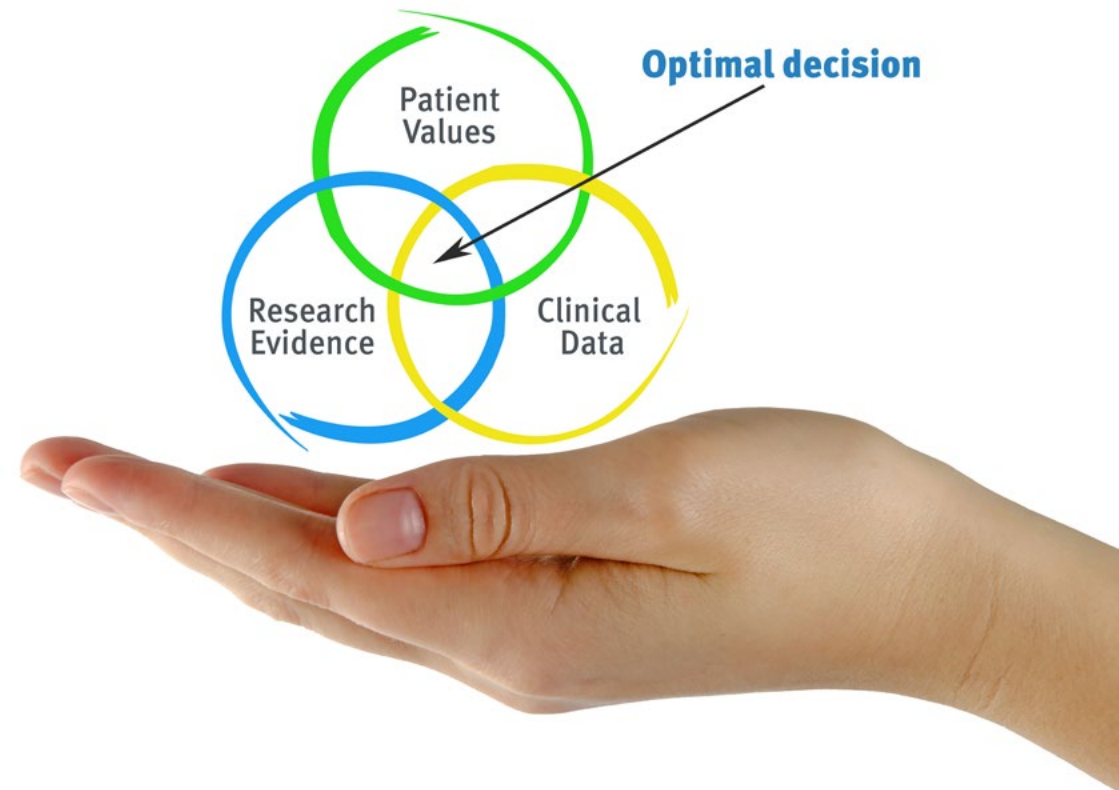
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## 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

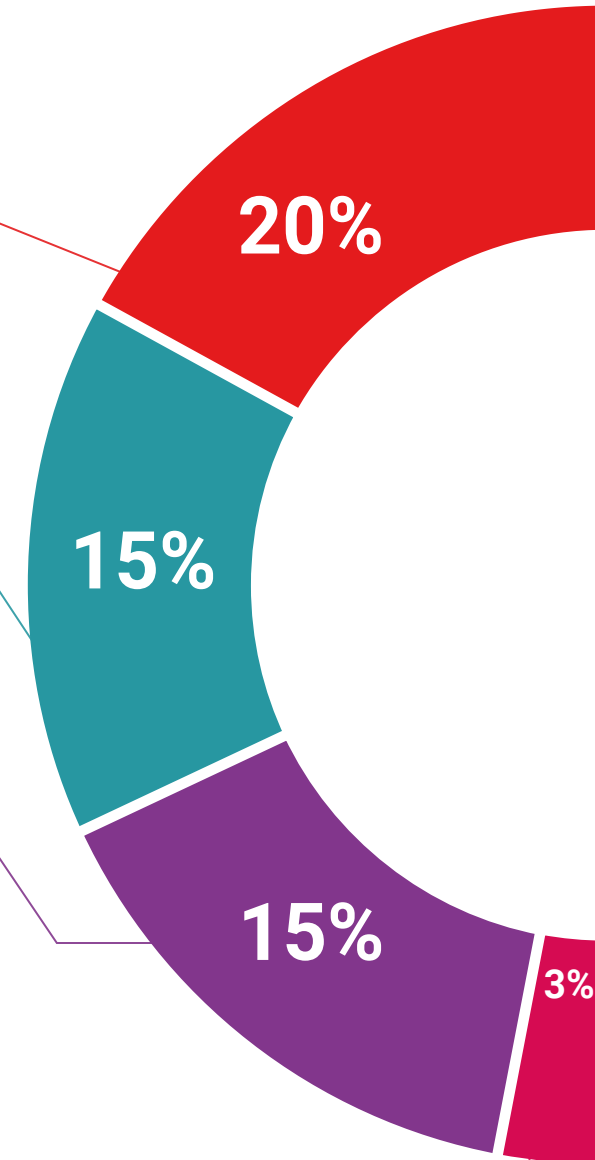
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

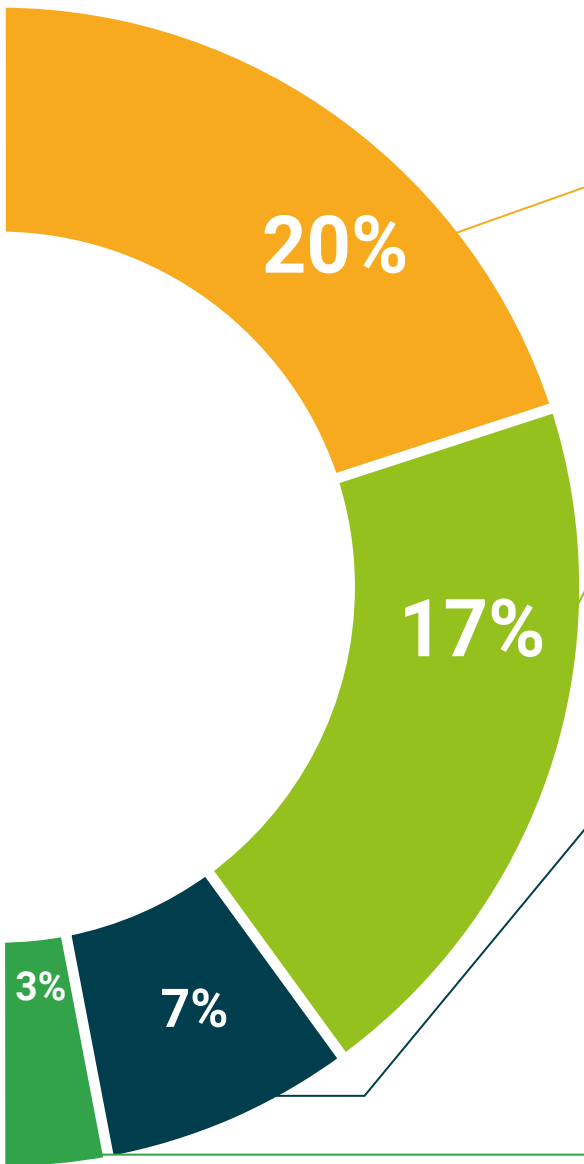
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### 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 Cardiovascular and Respiratory System Emergencies in the Outpatient Setting 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 Cardiovascular and Respiratory System Emergencies in the Outpatient Setting 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.

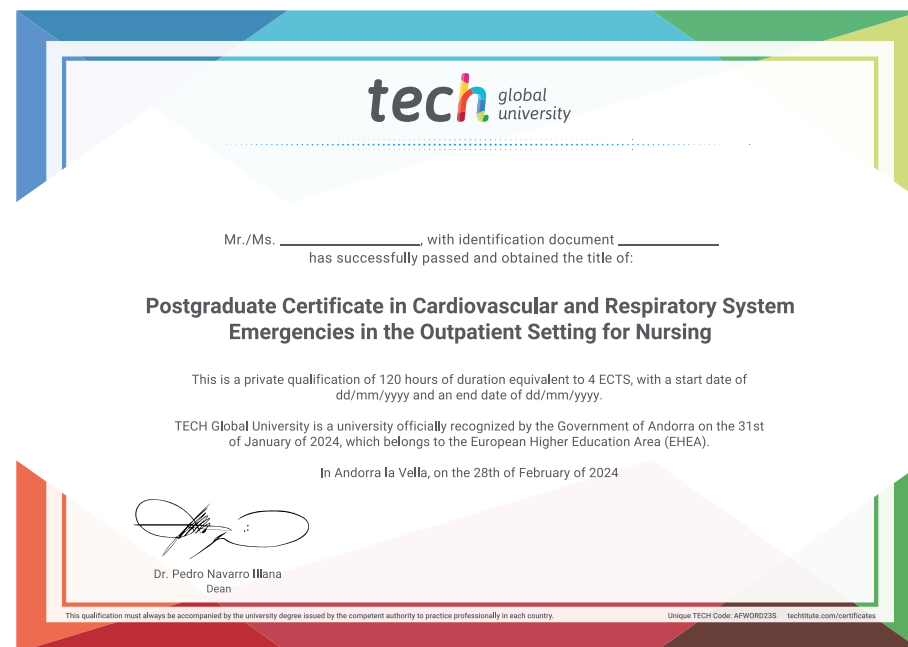
This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Cardiovascular and Respiratory System Emergencies in the Outpatient Setting for Nursing**

Modality: **online**

Duration: **6 weeks**

Accreditation: **4 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.



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