

# Postgraduate Certificate

## Advanced Practice Nursing in Cardiology





## Postgraduate Certificate Advanced Practice Nursing in Cardiology

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/nursing/postgraduate-certificate/advanced-practice-nursing-cardiology](http://www.techtute.com/us/nursing/postgraduate-certificate/advanced-practice-nursing-cardiology)

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# 01

# Introduction

The field of cardiology is of special interest to researchers around the world, which is why there are continuous advances in the field. Focused on advanced practice nursing, knowledge of these developments becomes crucial when caring for patients in the coronary unit or assisting in cardiac patient rehabilitation. Aware of this reality, TECH has developed a complete program where nursing professionals can update and apply to their daily practice the most recent scientific postulates on issues such as advanced ECGs, cardiac surgery and cardiological diagnostic tests.



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*You will have the option to choose when, where and how to study all the contents, without having to adapt to pre-set schedules or classes”*

Since advanced practice nurses must have a high level of knowledge and professional skills, it is their duty to update their skills based on the latest scientific evidence and modern practical treatments that yield the most successful outcomes.

Cardiology is one of the areas where advanced practice nurses can continue to perfect their skills. Therefore, this program is created to meet the highest expectations of nursing professionals, having been developed by a first-class teaching team.

The professors have incorporated numerous scientific postulates of the utmost rigor in the 10 topics that make up this Postgraduate Certificate, where nurses can find advances in diagnostic tests such as echocardiograms, ergometry, tilting bed or ITB Doppler.

Special emphasis is also placed on the importance of knowing the most recent research on advanced drug management in cardiology, as well as the role of nursing professionals in hemodynamics.

It is, therefore, an ideal academic option for any nurse seeking a complete, current and comprehensive update in cardiology. The program's 100% online format allows it to be perfectly balanced with other personal and professional responsibilities, providing the flexibility that advanced practice nurses need.

This **Postgraduate Certificate in Advanced Practice Nursing in Cardiology** contains the most complete and up-to-date educational program on the market. Its most notable features are:

- ♦ Practical cases presented by experts in Advanced Practice Nursing
- ♦ 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 in Advanced Practice Nursing
- ♦ 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



*Take advantage of the opportunities and flexibility TECH offers you to continue perfecting your knowledge in cardiology without neglecting your professional responsibilities"*

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*You won't have to invest large amounts of time or effort thanks to TECH's pedagogical methodology, a pioneer in the field of educational technology”*

The program's teaching staff includes professionals from sector who contribute their work experience to this training 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 training programmed to train 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 throughout the program. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

*The best teaching team in the academic landscape will guide you through the entire update, being an active part of the whole process.*

*Access the distinctive advances in cardiac surgery, pacemakers and electrocardiograms.*



# 02 Objectives

As there are continuous advances being made in the field of cardiology, the objective of this course is to provide the most outstanding developments in recent years, as well as the most current and useful practical methodology for all nursing professionals who wish to continue perfecting their knowledge. Therefore, TECH has set a series of goals students will achieve throughout the program.





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*You will incorporate the advances  
acquired during the course into your  
daily practice even before finishing it”*



## General Objectives

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- ♦ Specialize nursing professionals for advanced practice in research, teaching and care
- ♦ Know the most complex specific procedures in nursing practice
- ♦ Acquire advanced knowledge in anatomy, physiology, pathology and pharmacology
- ♦ Adapt professional nursing profiles to perform organizational and/or care positions at the highest level, all related to the most innovative and booming topics in advanced nursing





## Specific Objectives

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- ◆ Delve into the analysis and understanding of ECGs
- ◆ Gain in-depth knowledge of the main diagnostic tests in cardiology
- ◆ Learn the anatomy and physiology of the cardiovascular system at an expert level
- ◆ Learn all invasive techniques in hemodynamics
- ◆ Master cardiac rehabilitation guidelines and exercises



*Update and expand your knowledge in the most relevant fields in cardiology”*

03

# Course Management

As cardiology is such a specific field in Advanced Practical Nursing, TECH has assembled a pool of professionals and experts in the field to ensure all the content is of the highest quality. Therefore, the faculty is composed of nurses with both academic and practical experience in cardiology. This is a fail-safe guarantee for nurses, as it ensures access to the best content on the subject on the entire university scene.





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*You will have at your disposal a team of professionals and experts committed to your continuous updating in cardiology for APN”*

## Management



### Ms. Alonso Díaz, Verónica

- ♦ Advanced Practice Nurse in the Community of Madrid
- ♦ Head of Nursing CAP Santa Isabel
- ♦ Head of Nursing at CAP Cuzco
- ♦ DUE, Escuela Universitaria Cruz Roja, associated to UAM



### Mr. Jiménez Vales, Luis

- ♦ EIR training tutor, CTO Nursing Group
- ♦ Pediatrics EIR Teaching Coordinator, CTO Nursing Group
- ♦ Teaching coordinator of Oncohematology and Pain EIR, CTO Nursing Group
- ♦ Nurse in the area of Donors/Blood Bank, Fundación Jiménez Díaz
- ♦ Diploma in Nursing, School of Nursing, Fundación Jiménez Díaz, Universidad Autónoma de Madrid
- ♦ Specialist in Gynecology and Obstetrics, Gregorio Marañón General University Hospital
- ♦ Higher Technician Specialist in Clinical Diagnostic Laboratory, IES SIGLO XXI, Leganés



## Professors

### Ms. Fernández Rivas, Irene

- ◆ Nurse in adult consultation, Peña Prieta Health Center
- ◆ Nurse on the COVID floor and in internal medicine, Rey Juan Carlos Hospital, Móstoles
- ◆ Nurse specialist in Family and Community Nursing, Severo Ochoa Hospital, Leganés
- ◆ Degree in Nursing, Complutense University of Madrid
- ◆ Master's Degree in Nursing Care, Procedures and Clinical Applications, San Antonio Catholic University

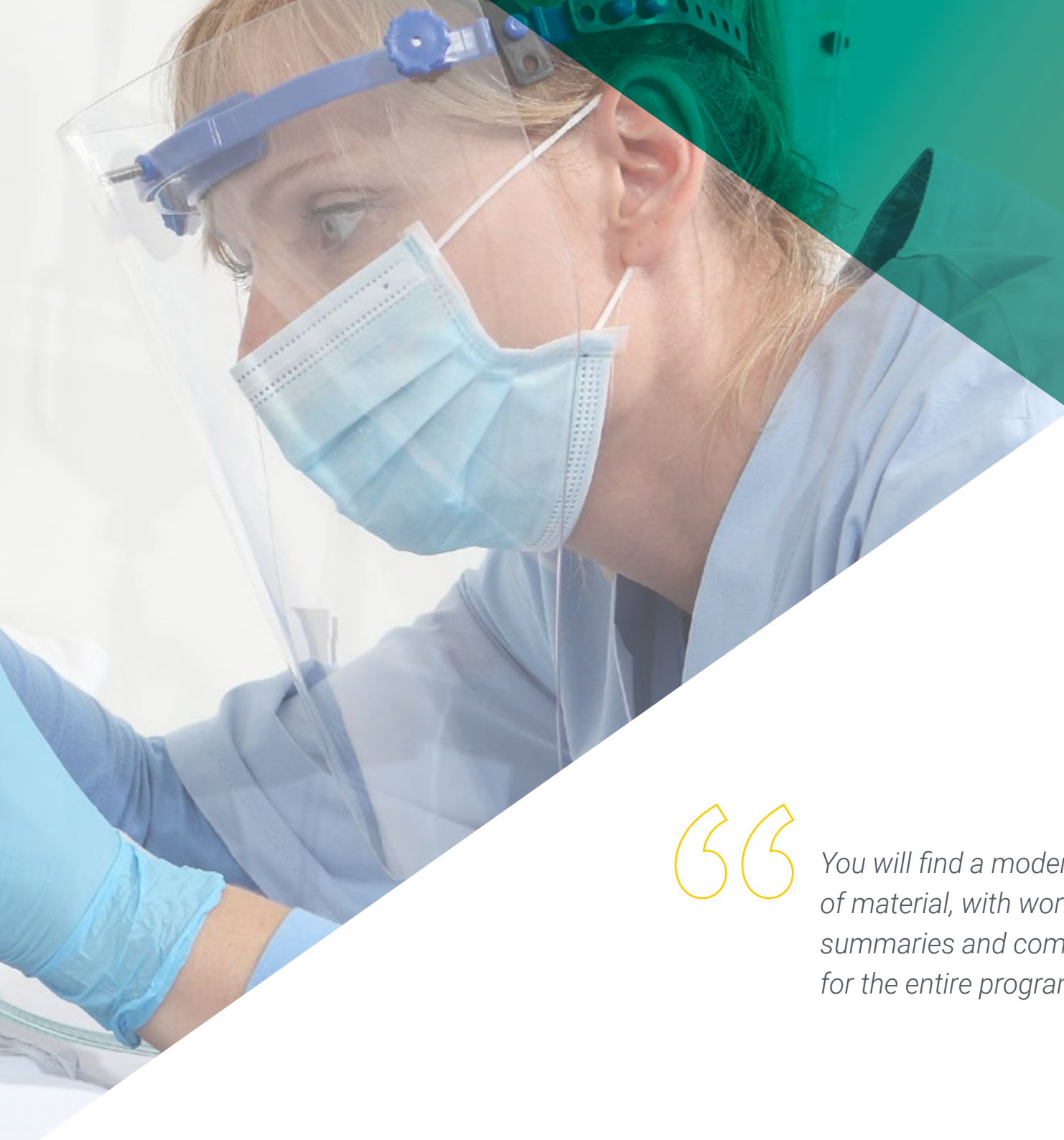
# 04

## Structure and Content

The contents of this program have been carefully structured and elaborated following a first level pedagogical methodology, ensuring students will face no obstacles in the process. Thanks to the extensive audiovisual support provided by the professors themselves, the course load is reduced, making the more advanced concepts much easier to assimilate for daily practice.







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*You will find a modern virtual classroom full of material, with work guides, interactive summaries and complementary readings for the entire program”*

## Module 1. Advanced Practice in Cardiology

- 1.1. Advanced ECG for Nursing
- 1.2. Pacemaker and Holter
- 1.3. Patient Management in the Coronary Care Unit
- 1.4. Role of Nursing Professionals in Hemodynamics
- 1.5. Cardiac Surgery
- 1.6. Nursing Interventions in Cardiological Diagnostic Tests
  - 1.6.1. Echocardiogram
  - 1.6.2. Ergometry
  - 1.6.3. Tilting Bed
  - 1.6.4. Ankle-Brachial Index (ABI) Doppler
- 1.7. Advanced Drug Management in Cardiology
- 1.8. Cardiology Nursing Techniques and Procedures
- 1.9. Nursing in Cardiopathy Patient Rehabilitation
- 1.10. Continuity of Care in Patients with Cardiopathies





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*You will have access to real clinical cases on advanced practice nursing in cardiology, giving you a much more realistic view of recent advances in the field”*

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

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.



*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 Certificate in Advanced Practice Nursing in Cardiology guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in Advanced Practice Nursing in Cardiology** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Advanced Nursing Practice in Cardiology**

Official N° of hours: **150 h.**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION 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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