

# Postgraduate Certificate Hemodynamic Nursing



## Postgraduate Certificate Hemodynamic Nursing

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

Website: [www.techtute.com/pk/nursing/postgraduate-certificate/hemodynamic-nursing](http://www.techtute.com/pk/nursing/postgraduate-certificate/hemodynamic-nursing)

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# 01

# Introduction

Healthcare personnel are aware of the seriousness of any disorder, damage or disease affecting a coronary artery. Their extensive knowledge in this field, however, always requires constant updating due to the scientific advances that occur in the treatments and interventions performed in this type of patients. This 100% online program was created to respond to the necessary updating required by nursing professionals in this field. All this, with innovative multimedia content taught by a teaching team with extensive experience in patients with cardiac problems.



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*Refresh your knowledge of hemodynamics through flexible teaching and high educational standards”*

The nursing professional is aware of the seriousness of the patient with cardiac problems and the care required by a person who has undergone catheterization. This program is aimed at health personnel who want to be aware of the latest developments in Hemodynamic Nursing by the hand of a specialized teaching team.

A university education where the professional through innovative multimedia content will be able to delve into the pathophysiology of atherosclerosis, acute coronary syndrome, as well as recent updates in treatments for coronary heart disease.

Video summaries, specialized readings and real clinical cases are part of an advanced syllabus that will allow students to renew their knowledge on the contraindications of percutaneous interventions, prevention, diagnosis and possible complications derived from certain procedures such as coronary dissection, perforation or hemorrhagic complications.

A program taught exclusively online that is an excellent opportunity for the professional who wishes to update his knowledge comfortably, from and when he wants. All you need is an electronic device with an internet connection to access the virtual platform where you will find the syllabus developed by the specialized faculty that teaches this qualification.

This will allow you to distribute the teaching load according to your needs and better reconcile an education that is at the educational forefront, with your work responsibilities.

This **Postgraduate Certificate in Hemodynamic 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 Cardiology
- ♦ The graphic, schematic, and practical contents with which they are created, provide practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ 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



*TECH is committed to a Relearning methodology, which together with the virtual classroom teaching modality make the perfect tandem to combine study and work"*

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*You will obtain an updated vision of percutaneous interventional procedures, surgery and medical treatments"*

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.

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.

The design of this program focuses on Problem-Based Learning, through which the professional must try to solve the different professional practice situations that arise throughout the program. This will be done with the help of an innovative interactive video system created by renowned experts.

*With this online program you will learn more about the operation of hemodynamic and interventional units.*

*With this program, you will be updated on the latest scientific studies that delve into hemodynamics.*



# 02 Objectives

Through the Postgraduate Certificate in Hemodynamic Nursing, the health professional will be able to renew and update the protocols of medical care of patients with rhythmic abnormalities. Throughout the 6 weeks of this qualification you will deepen in the difference of the underlying mechanism in cardiac pathologies; it can become the necessary key to develop a correct diagnostic strategy by the nursing staff.





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*You're going to get an up-to-view view on the treatments and possible complications derived"*



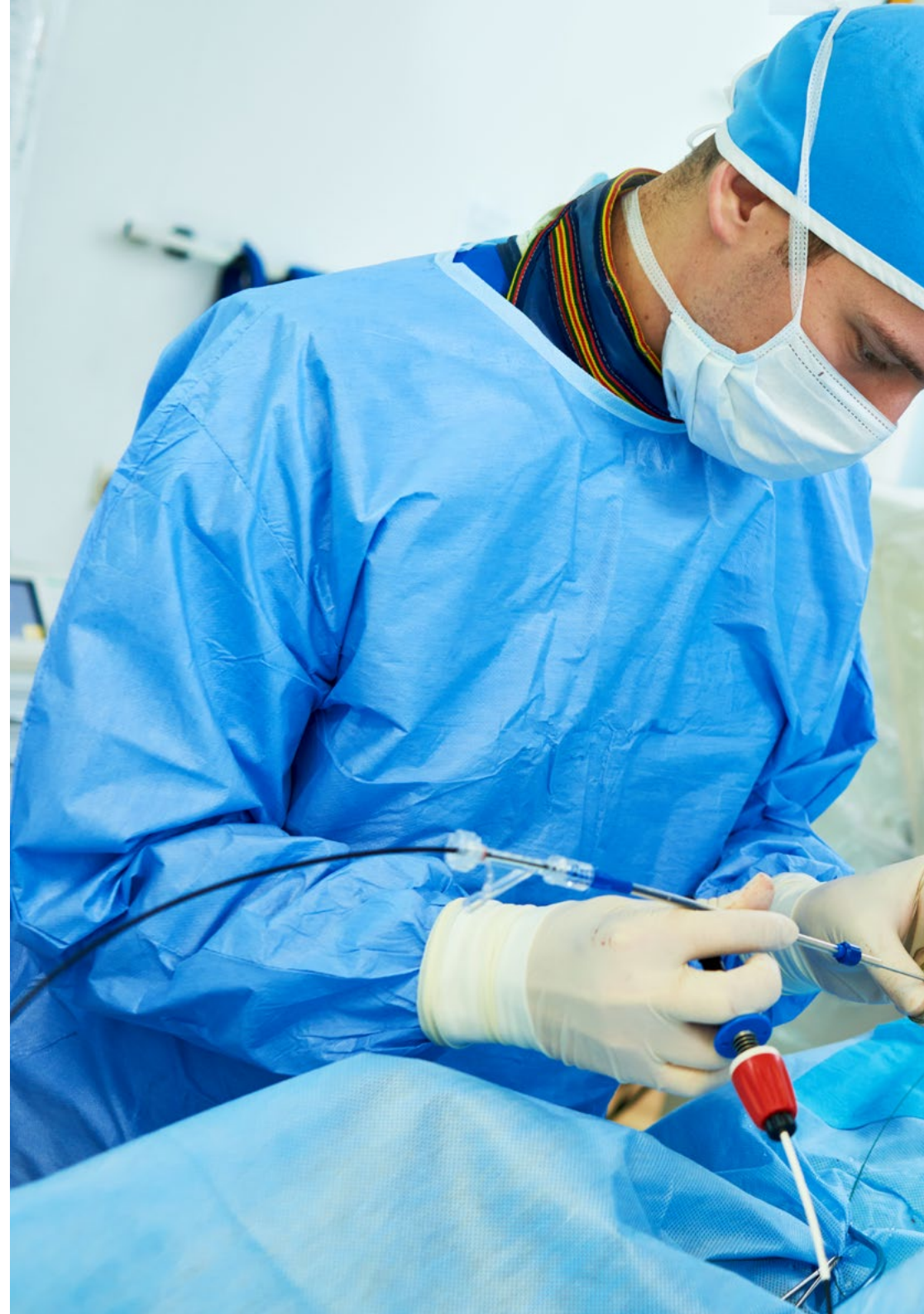
## General Objectives

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- To provide students with the theoretical knowledge and the necessary practical resources for the performance of their healthcare activity
- Provide comprehensive patient care to solve, individually or as members of a team, health problems with efficiency and quality criteria

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*You will have all the multimedia material, complementary reading material and self-knowledge exercises at your fingertips 24 hours a day"*





## Specific Objectives

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- ◆ In-depth knowledge of the indications and contraindications of percutaneous interventional procedures, surgery and medical treatment, as well as to have experience in the prevention, diagnosis and treatment of possible complications of the procedures (coronary dissection, perforation, No Reflow phenomenon, hemorrhagic and vascular complications, etc.)
- ◆ In-depth knowledge of techniques for the treatment of non-coronary heart disease, usually included under the heading of structural heart disease
- ◆ Acquire an integral and up-to-date vision of the operation of hemodynamic and interventional units

# 03

# Course Management

TECH maintains its commitment to all students to offer quality education. To this end, all of its university qualifications are taught by a specialized teaching team with an extraordinary professional background. Thus, the professional who takes this qualification will have at his disposal a committed faculty, which transfers all its knowledge in this program, so that the nursing staff obtains a renewal of their knowledge as close as possible to the current clinical reality.





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*You will continue to improve your skills in the management of patients with acute coronary syndrome"*

## Management



### Ms. Capote Toledo, María Luz

- ♦ Coordinator of the Hemodynamics and Arrhythmia Room at the Hospital Príncipe de Asturias and Hospital Severo Ochoa, in Madrid
- ♦ Supervisor of Heart Failure, Cardiac Rehabilitation, Cardiopulmonary Explorations (Imaging, Ergometry and Holter) and High-Resolution Cardiology Consultations at Clinical Hospital San Carlos in Madrid
- ♦ Supervisor of Hemodynamics and Electrophysiology at San Carlos Clinical Hospital, in Madrid
- ♦ Graduate in Nursing at the Complutense University of Madrid
- ♦ Master 's Degree in Health Care Quality, Rey Juan Carlos University in Madrid in collaboration with the Laín Entralgo Agency

## Professors

### Ms. Seguido, Cristina

- ♦ Nurse in Hemodynamics-Electrophysiology and ICU at University Hospital Príncipe de Asturias (HUPA ) in Madrid
- ♦ Surgical Block Nurse at University Hospital Príncipe de Asturias in Madrid
- ♦ Diploma in Nursing at the University of Alcalá de Henares in Madrid
- ♦ National Course of Implantation of PICC in University Hospital Príncipe de Asturias in Madrid
- ♦ Course in Diagnosis and Treatment of Cardiac Arrhythmias at Clinical Hospital San Carlos in Madrid
- ♦ Course in critical patient care Clinical Hospital San Carlos in Madrid



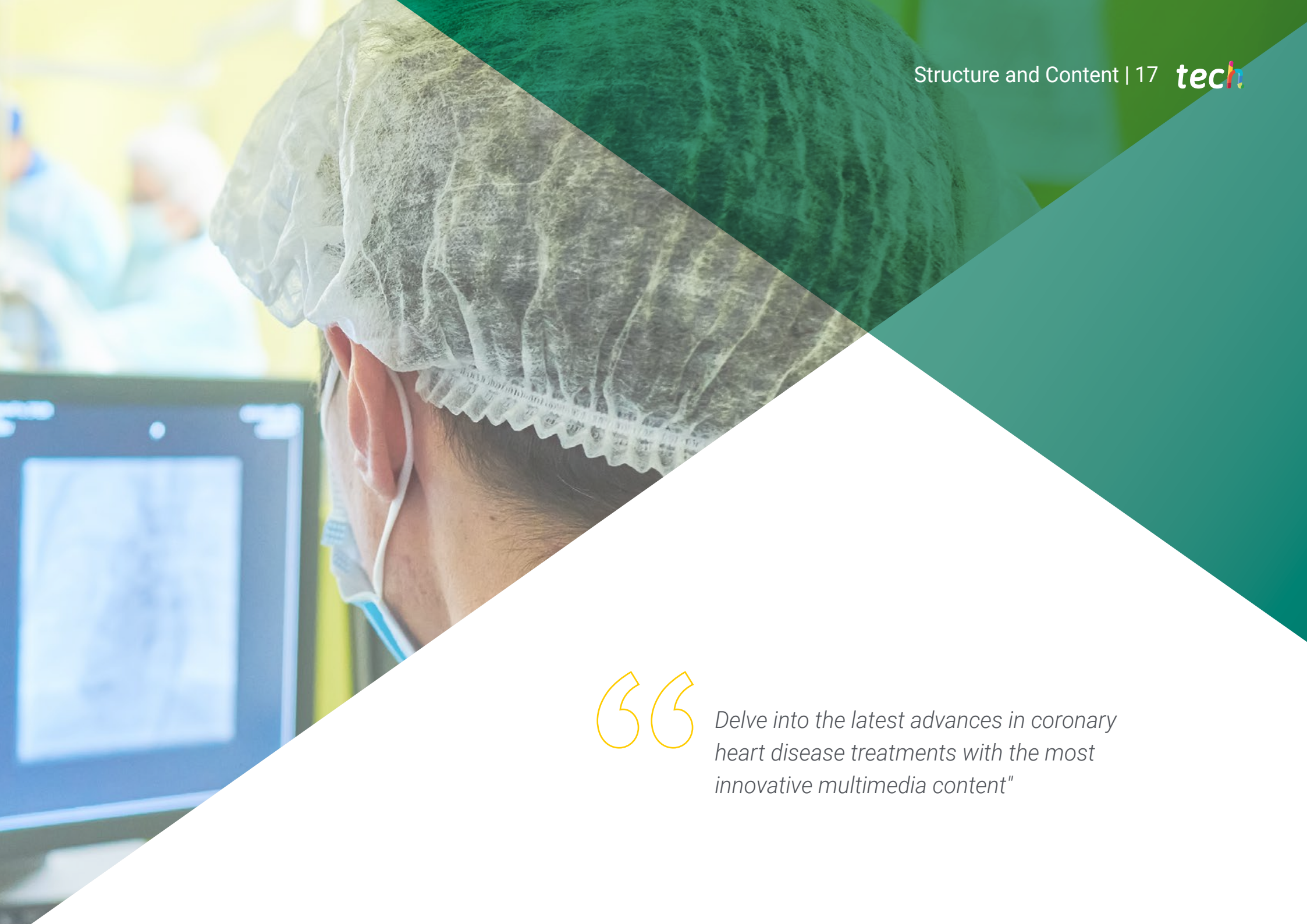
# 04

## Structure and Content

The syllabus of this program in Hemodynamic Nursing is designed to be taught in a period of 6 weeks. Thanks to the structure of the program, the nursing professional will have a global and specialized vision of the latest research and scientific practices in the specialty of cardiology and rhythmic abnormalities of the heart. The Relearning method favors the acquisition of knowledge by repeating the concepts in the different contexts that take place in the program. In this way, keeping up to date will not be an overexertion for the professional who decides to opt for first level study.







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*Delve into the latest advances in coronary heart disease treatments with the most innovative multimedia content”*

## Module 1. Coronary Artery Disease: Hemodynamics

- 1.1. Pathophysiology of Atherosclerosis
  - 1.1.1. Characteristics of Coronary Arterial Lesions
- 1.2. Stable Angina
- 1.3. Acute Coronary Syndrome. With and without ST Elevation
  - 1.3.1. Non-ST Segment Elevation ACS
  - 1.3.2. ST Segment Elevation ACS
- 1.4. Treatment of Coronary Heart Disease
- 1.5. Right Heart Catheterization
- 1.6. Percutaneous Interventions in Structural Heart Disease
  - 1.6.1. Percutaneous Aortic Valve Interventions: Aortic Valvuloplasty + TAVI Implantation
  - 1.6.2. Percutaneous Mitral Valve Interventions
- 1.7. Drugs Associated with Coronary Interventionism
- 1.8. Vascular Access Routes
- 1.9. Hemostasis Methods
- 1.10. Nursing Care for Patients Undergoing Catheterization





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*Get up to date with the latest developments in diagnostic techniques for coronary lesions”*

# 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.





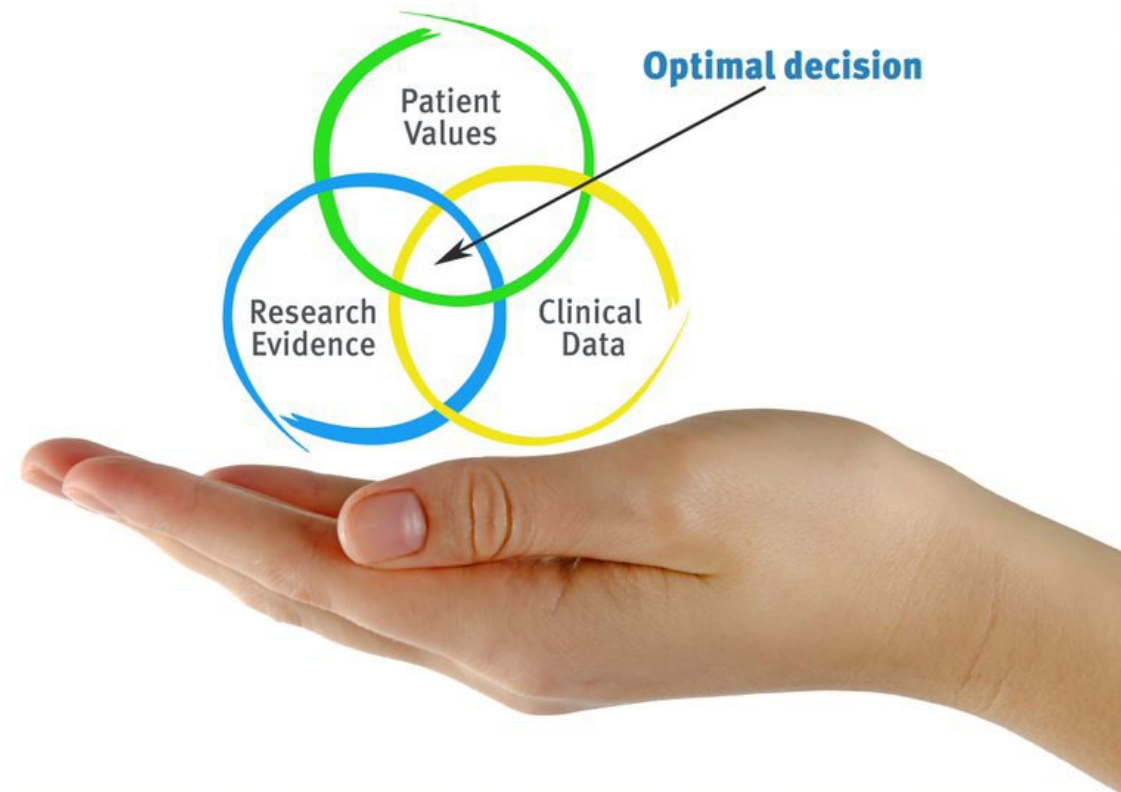
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## 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 Certificate in Hemodynamic Nursing 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 Hemodynamic Nursing** 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 certificate 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 Hemodynamics Nursing**

Official N° of hours: **150 h.**



\*Apostille Convention. In the event that the student wishes to have their paper certificate 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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- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

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