

Postgraduate Certificate

Digital Health Management for Nursing



Postgraduate Certificate Digital Health Management for Nursing

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

Website: www.techtute.com/us/nursing/postgraduate-certificate/digital-health-management-nursing

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01

Introduction

Scientific advances in the field of healthcare have generated significant progress that merges medical management with the implementation of technological solutions. This evolution has the potential to optimize procedures, streamline decision making and improve the quality of patient care. It is therefore essential for the nurse to be up to date with the latest innovations that can simplify processes in the healthcare environment. In this context, TECH has developed this degree, which allows the student to delve into the use of *Big Data* or *Artificial Intelligence* in the clinical environment. In addition, you will complete your update 100% online, without the need to stick to uncomfortable pre-established schedules.



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Delve into the management of cutting-edge hospital information systems thanks to this Postgraduate Certificate offered by TECH"

The relevance of digital management in healthcare is unquestionable, as it contributes to optimizing efficiency and excellence in patient care. Therefore, the digitization of medical records enables faster and more accurate access to the individual's information, which helps to apply a series of care adapted to their needs. Consequently, keeping up to date with the latest technologies used in the clinical environment is essential for nurses who want to avoid being left behind with respect to advances in their sector.

For this reason, TECH has opted to create this Postgraduate Certificate, which gives the student an excellent update in Digital Health Management for Nursing in just 150 hours. Through this academic itinerary, students will delve into the operation of cutting-edge hospital information systems and the potential of the Internet of Things in the current healthcare landscape. It will also detect the possible uses of Robotics in Medicine.

All this, through a very complete 100% online modality, through which the student will be to enjoy the didactic contents at any time and place, just by using a device with an Internet connection. In addition, you will have a wide variety of multimedia resources, such as interactive summaries or explanatory videos, so you can choose the format that best suits your academic needs.

This **Postgraduate Certificate in Digital Health Management for Nursing** contains the most complete and up-to-date academic program on the market. Its most notable features are:

- ♦ The development of practical cases presented by experts in Pharma Biotech
- ♦ 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



With this program, you will delve into the electronic clinic and the interoperability of information systems in the healthcare environment"

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With TECH, you will delve into telemedicine and the intricacies of digital health, delving into remote medical consultations and telemonitoring platforms”

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 academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

Through a 100% online learning system, you will have the opportunity to study without leaving your home.

Identify the current applicability of AI and Big Data in the management of healthcare processes.



02

Objectives

The objective of this program is to provide students with the essential knowledge and principles that will enable them to keep abreast of the latest technological trends in order to improve the efficiency and quality of healthcare services. From this perspective, the nurse will be prepared to identify and evaluate the most appropriate solutions in the field of clinical management.





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In just 6 weeks, you will delve into remote monitoring, smart hospital infrastructures and inventory management to improve the experience within the sector”



General Objectives

- ♦ Acquire knowledge about the history of strategic management.
- ♦ Categorize the different definitions over time
- ♦ Evaluate financial efficiency
- ♦ Optimize working capital management
- ♦ Understand the different types of healthcare systems, such as public, private/private insurance, and managed health care
- ♦ Assess unmet patient needs and chronicity management
- ♦ Understand what Market Access is and how the need for this function arises in the pharmaceutical industry
- ♦ Know about the structure, organization and functions of the National Health System
- ♦ Delve into the steps to be followed to plan the market access of a new drug
- ♦ Review the points to be analyzed in a phase prior to the development of the access plan to know about the environment and competitors
- ♦ Know about the capabilities and ethics of the Coach
- ♦ Understand the essence of Coaching and its approach to learning
- ♦ Acquire basic knowledge about the fundamental concepts of leadership and its application in the pharmaceutical industry
- ♦ Understand and categorize leadership theories, exploring the leadership process and the different existing styles and models.
- ♦ Obtain an effective tool to achieve results.
- ♦ Define unique and differentiated value propositions





Specific Objectives

- ◆ Understand the different types of healthcare systems, such as public, private/private insurance, and managed health care
- ◆ Assess unmet patient needs and chronicity management
- ◆ Analyze the role of cost, effectiveness and safety as determining factors in health care
- ◆ Understand the professional-patient relationship and the rights and duties of both
- ◆ Analyze the challenges of care pressure and cost management based on ethical principles
- ◆ Define the skills and attitudes needed to be an effective professional manager
- ◆ Explore leadership and the management of emotional climate and work conflicts
- ◆ Utilize timekeeping as a tool for efficient management
- ◆ Analyze health spending and outcomes, as well as processes of improvement, innovation and transformation
- ◆ Evaluate the use of indicators, benchmarking, clinical guidelines, EDO, claims and pharmacovigilance in healthcare quality



Thanks to this program, you will learn cutting-edge techniques to prevent cyber attacks and explore cybersecurity"

03

Course Management

This program stands out for its outstanding faculty, who teach from a revolutionary academic perspective. These instructors are recognized specialists in areas such as medicine, pharmacology and business, and have extensive work experience behind them. This will ensure that students get a cutting-edge update on the latest technological developments in the pharmaceutical and biotechnology industry.





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Get updated in Digital Health Management for Nursing by the best experts in the field"

Management



D. Cardenal Otero, César

- ♦ Pharmabiomedical Executive at Amgen
- ♦ Author of the book "Personal Brand Communication through Social Networks by Professionals in the Health Sector"
- ♦ Degree in Marketing from Prifysgol Cymru University in Wales
- ♦ Distinction degree in the course Inspiring Leadership through Emotional Intelligence from Case Western Reserve University
- ♦ Postgraduate Degree in Management and Health of the Pharmaceutical Industry from the European University
- ♦ Master's Degree in SME Administration from the Polytechnic School of Management
- ♦ Specialization in Social Media Marketing from Northwestern University
- ♦ Postgraduate Diploma in: International Trade and Transport by the University of Cantabria

Professors

Mr. Rojas Palacio, Fernando

- ♦ Founder and CEO of Navandu Technologies
- ♦ Founder of the international consulting firm Brigital Health.
- ♦ Expert in Big Data and Social Network Analysis by MIT
- ♦ Senior Business Management Program at Instituto de Empresa and Chicago Booth School of Business
- ♦ Master's Degree in Telecommunications Engineering from the Polytechnic University of Madrid
- ♦ Professor associated with academic programs in his specialty



04

Structure and Content

The curriculum of this academic program has been designed with the idea of transmitting to the student the most updated knowledge on Digital Health Management for Nursing. All these aspects will be compiled in a series of educational resources available in a virtual library, which can be accessed anytime, anywhere, as it only requires a device with an Internet connection.





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With the Relearning method, you will reduce your study hours and strengthen your long-term understanding of the knowledge”

Module 1. Digital Health Management: Technological Innovation in the Health Sector

- 1.1. Hospital information systems
 - 1.1.1. Implementation
 - 1.1.2. Management of Hospital information systems
 - 1.1.3. Electronic Medical Records
 - 1.1.4. Information Systems Interoperability
- 1.2. Telemedicine and digital health
 - 1.2.1. Remote medical consultations
 - 1.2.2. Tele-monitoring platforms
 - 1.2.3. Patient Monitoring
 - 1.2.4. Mobile health and wellness applications
- 1.3. *Big Data* and Data Analysis in Healthcare
 - 1.3.1. Management and Analysis of Large Volumes of Data in health
 - 1.3.2. Use of predictive analysis for Decision-Making
 - 1.3.3. Privacy
 - 1.3.4. Health data security
- 1.4. Artificial intelligence and machine learning in healthcare
 - 1.4.1. Artificial intelligence applications in medical diagnostics
 - 1.4.2. Machine learning algorithms for pattern detection
 - 1.4.3. Chatbots
 - 1.4.4. Virtual assistants in medical care
- 1.5. The Internet of Things (IoT) in health
 - 1.5.1. Connected medical devices and remote monitoring
 - 1.5.2. Intelligent hospital infrastructures
 - 1.5.3. IoT applications in inventory management
 - 1.5.4. Supplies
- 1.6. Cybersecurity in healthcare
 - 1.6.1. Health data protection and regulatory compliance
 - 1.6.2. Prevention of cyber attacks
 - 1.6.3. Ransomware
 - 1.6.4. Security audits and incident management



- 1.7. Virtual Reality (RV) and Augmented Reality(RA) in Medicine
 - 1.7.1. Medical training using VR simulators
 - 1.7.2. AR applications in assisted surgery
 - 1.7.3. Surgical guides
 - 1.7.4. VR therapy and rehabilitation
- 1.8. Robotics in medicine
 - 1.8.1. Use of surgical robots in medical procedures
 - 1.8.2. Automation of tasks in hospitals and laboratories
 - 1.8.3. Prosthesis
 - 1.8.4. Robotic assistance in rehabilitation
- 1.9. Medical Images Analysis
 - 1.9.1. Medical image processing and computational analysis
 - 1.9.2. Computer-aided image diagnosis
 - 1.9.3. Real-time medical imaging
 - 1.9.4. 3D
- 1.10. Blockchain in Healthcare
 - 1.10.1. Security and Traceability of Health Data with Blockchain
 - 1.10.2. Exchange of medical information between institutions
 - 1.10.3. Management of Informed Consent
 - 1.10.4. Privacy



Update yourself through dynamic didactic formats such as the explanatory video or the interactivesummary"

05

Methodology

This 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 prepared more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. Our educational 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 Digital Health Management 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.



The image features two black graduation caps (mortarboards) against a bright blue sky with scattered white clouds. One cap is in the foreground, slightly out of focus, while the other is in the background, more in focus. The caps are positioned diagonally across the frame. The bottom right corner of the image is overlaid with a white triangular shape containing text.

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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 Certificate in Digital Health 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 Certificate in Digital Health Management for Nursing**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 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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