

Postgraduate Diploma

Orthopedic and Traumatology Surgery for Nursing





Postgraduate Diploma Orthopedic and Traumatology Surgery for Nursing

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 16 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-diploma/orthopedic-traumatology-surgery-nursing

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 18

05

Methodology

p. 22

06

Certificate

p. 30

01

Introduction

Nowadays, continuous training is required to achieve professional development and to be fully qualified to face the daily challenges of a constantly changing field such as healthcare. The surgical area is an environment whose characteristics differentiate it from the rest of the services where the majority of nursing professionals habitually develop competencies in their care, management, teaching and research functions.





“

Improve your knowledge through this program, where you will find the best didactic material with real clinical cases. Learn here about the latest advances in the specialty to be able to perform a quality practice”

Given the increase in musculoskeletal cases and comorbidities, the medical sector has had to implement the use of new technologies to provide solutions to all types of problems. Likewise, the sector in general has adopted new procedures to perform surgical procedures in cases where therapy is not enough. In this way, a series of new aspects have been adopted to address orthopedic and traumatologic affections in the best possible way. Therefore, this program arises to provide professionals who want the most recent updates and developments in this field.

This Postgraduate Diploma contains the most complete and updated scientific program of the market, having as main objective the training in generic and specific competences in a surgical process and facilitates the updating of the professional in a practical way and adapted to their needs. The modules that make up this Postgraduate Diploma are aimed at updating the knowledge of nursing professionals who already perform their functions in the surgical area.

This knowledge will facilitate the provision of quality care throughout the surgical process to ensure the safety of the patient and the professional himself at all times. In the same way, the contents are based on the latest scientific evidence, and oriented in a didactic way to integrate theoretical knowledge in nursing practice.

This **Postgraduate Diploma in Orthopedic and Traumatology Surgery for Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Clinical cases presented by experts in the different specialties. 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
- ♦ Orthopedic and Traumatology Surgery for Nursing News
- ♦ Interactive learning system based on algorithms for decision making on the nursing situations posed
- ♦ With a special emphasis on evidence-based health and research methodologies in surgical nursing
- ♦ All of this will be complemented by 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



Increase your skills in the approach to Orthopedic and Traumatology Surgery for Nursing through this program"

“

This Postgraduate Diploma may be the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in Orthopedic Surgery and Traumatology for Nursing, you will obtain a Postgraduate Diploma from TECH Global University"

Its teaching staff includes health professionals belonging to the field of Dental nursing, who bring to this Specialization their work experience, as well as recognized specialists belonging to leading scientific societies.

Thanks to its multimedia content developed with the latest educational technology, they will allow the professional a situated and contextual learning, that is to say, a simulated environment that will provide an immersive learning programmed to prepare in real situations.

This program is designed around Problem-Based Learning, where Communication Management must try to solve the different professional practice situations that arise during this academic course. This will be done with the help of an innovative interactive video system developed by renowned experts in the field of surgical nursing with extensive teaching experience.

Increase your confidence in decision making by updating your knowledge through this Postgraduate Diploma in Orthopedic and Traumatology Surgery for Nursing.

Do not miss the opportunity to update your knowledge in Orthopedic Surgery and Traumatology to improve patient care.



02

Objectives

The main objective of the program is to develop both theoretical and practical learning, so professionals can master surgery studies in a practical and rigorous Orthopedic and Traumatologic way.





“

This refresher program will generate a sense of confidence when practising nursing, which will help you grow both personally and professionally”



General Objectives

- Update your knowledge on advanced Nurse practice in perioperative care within the different medical-surgical specialities through nursing based on evidence
- Promote work strategies based on perioperative patient care, as a reference model in the achievement of healthcare excellence
- Encourage the acquisition of technical skills and abilities, through a powerful audiovisual system, and the possibility of development through online simulation workshops and/or specific education
- Encouraging professional development through research and dynamic and up-to-date continuous Training



Take advantage of the opportunity and take the step to get up to date on the latest developments in Orthopedic Surgery and Traumatology for Nursing"





Specific Objectives

Module 1. Perioperative Surgical Process

- ♦ Explain and define the perioperative surgical process, and its three component stages
- ♦ Define the competencies and skills of the surgical nurse, internalising what their qualities and aptitudes should be
- ♦ Identify the different areas in which the surgical process takes place, and its interrelation with other support services
- ♦ Be aware of the importance of reciprocal information between the patient/family and the nursing professional during the whole surgical process
- ♦ Control or minimise the patient's level of anxiety, typical in these situations, as well as pain if present
- ♦ Acquire the necessary knowledge to carry out all nursing interventions, depending on the surgical moment
- ♦ Learn how to welcome the patient/family, whether in the bedding room, in the operating theatre or in resuscitation
- ♦ Learn the most commonly used anesthetic techniques in perioperative medicine, indications and complications
- ♦ List the drugs frequently used in the anesthetic procedure, their mechanism of action and side effects, knowing how to act according to the drug administered
- ♦ Learn about the different roles of the operating theatre circulator and the scrub nurse in the operating theatre
- ♦ Be prepared to collaborate with the rest of the surgical team in the correct management of potential complications
- ♦ Learn to collaborate with the rest of the team in the transfer and positioning of the patient, ensuring their comfort and safety at all times
- ♦ Communicate the necessary information about the patient to the nursing professional who will assume the subsequent care of the patient

- ♦ Prepare the patient for discharge when the required care can be provided outside of the hospital
- ♦ Acquire the necessary knowledge for each surgery about the anatomy of the area to be operated on, the necessary equipment, consumables and instruments, and the required anaesthesia and positioning
- ♦ Describe the specific training of the nursing professional in the different surgical specialities

Module 2. Orthopaedic Surgery and Traumatology

- ♦ Explain the proper handling and positioning of the different devices, basic and specific instruments and describe the surgical technique in arthroscopy
- ♦ Identify cemented and cementless arthroplasties and describe the number of components of each type of prosthesis, as well as the surgical technique to be followed in these cases
- ♦ Integrate knowledge of osteosynthesis for fracture interventions and deformity correction
- ♦ Implement measures to reduce the risk of bleeding and the risk of periprosthetic fracture in arthroplasty replacement procedures
- ♦ Explain the surgical cementation procedure and the role of the nurse during the procedure
- ♦ Proper handling of washing systems and spacer placement in cases of infection
- ♦ Assess the importance of checking implant stock prior to surgery
- ♦ Explain the importance of the process of bone donation to the bone bank and the reception of bone donations in patients who require surgery
- ♦ Assess the psychological state of patients and develop relational tools to help alleviate the stress involved in the surgical process

03

Course Management

This program includes in its teaching staff health professionals of recognized prestige, who belong to the field of surgical nursing and who pour into this specialization the experience of their work.

In addition, renowned specialists, members of prestigious national and international scientific communities, are involved in designing and preparing the program.



“

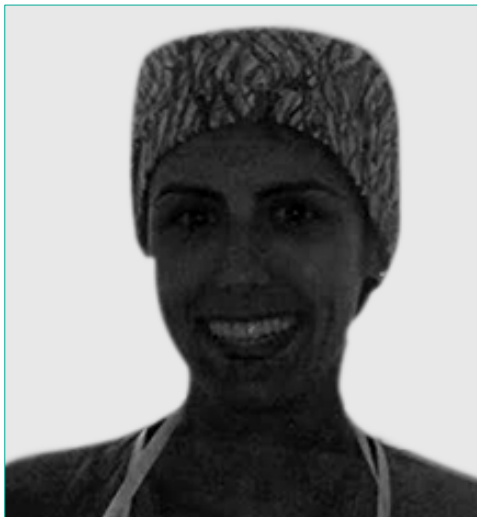
Learn from leading professionals the latest advances in orthopedic and traumatology surgery for nursing"

Management



Ms. Guzmán Almagro, María Isabel

- ♦ Professional Nurse Specialist in Comprehensive Nursing Care in Critical and Emergency Situations in Adults
- ♦ Surgical Block Nurse at the La Paz University Hospital. Madrid, Spain
- ♦ Master in Social Gerontology: Longevity, health and quality. University of Jaén
- ♦ University Specialist in Emergency Medicine Complutense University of Madrid
- ♦ Postgraduate Diploma in Digital Teaching for Nursing. Cardenal Herrera University. CEU
- ♦ Diploma in Nursing. University of Jaén
- ♦ Coordinator of several nursing programs in Spain
- ♦ Invited to the XII National Congress of Surgical Nursing, Hospital La Paz. Madrid, Spain



Ms. Bárzano Saiz, María Estela

- ♦ Operating Room Nurse at La Paz Hospital, Madrid
- ♦ Staff Nurse in Medical-Surgical Specialties and Palliative Care, Gregorio Marañón University Hospital, Madrid
- ♦ Intensive Care Unit, Gregorio Marañón University Hospital, Madrid
- ♦ Nurse of consultation and clinical analysis, Gran Via Medical Center, Madrid
- ♦ Physiotherapist, FREMAP. General Ricardos Health Care Center. Madrid
- ♦ Physiotherapist, personalized physiotherapy treatments in consultation and collective cases. MIRASIERRA BALBRIUM SPA WELLNESS. Madrid
- ♦ Postgraduate Diploma in Nursing, Pontificia University of Salamanca
- ♦ Primary Care Nurse at Salamanca Health Center)
- ♦ Academic Director, San Pablo CEU University of Alicante



Ms. Alba López, Alicia

- ◆ Nurse Attending Hospital Universitario La Paz
- ◆ Postgraduate Certificate in Nursing
- ◆ Operating room nurse in the medical sections of La Paz University Hospital: Orthopedic Surgery, Traumatologic Surgery, Plastic Surgery, General Surgery

Professors

Ms. García Enciso, Carmen

- ◆ Nurse in the Traumatology Unit, La Paz Hospital. Madrid, Spain
- ◆ Nurse in rehabilitation and trauma resuscitation units
- ◆ Postgraduate Diploma in Nursing from the Alfonso X el sabio University
- ◆ Expert in advanced nursing care

Ms. Valverde Girón, Laura

- ◆ Specialties of Orthopedic and Traumatologic Surgery, General Surgery, Plastic Surgery and Gynecologic Surgery
- ◆ Surgical Nurse Specialist in Orthopedic and Traumatologic Surgery
- ◆ Surgical Nurse in Orthopedic and Traumatologic Surgery, General Surgery, Plastic Surgery and Gynecological Surgery. La Paz University Hospital
- ◆ Nursing Service in the specialties of: Orthopedic and Traumatologic Surgery, General Surgery, Plastic Surgery and Gynecological Surgery. Cantoblanco Hospital
- ◆ Operating Room Nurse at the Santa Cristina University Hospital in Madrid

Ms. Carrero Villareal, Mercedes

- ◆ Nurse specialist in the surgical area and postoperative care
- ◆ Operating room nurse in the areas of general surgery and traumatology, Hospital Universitario de Ciudad Real
- ◆ Traumatology nursing service, Perpetuo Socorro Hospital, Albacete
- ◆ Nurse in the areas of traumatology, emergency gynecology, general surgery, urology and otorhinolaryngology, Infanta Sofia Hospital, San Sebastian de los Reyes
- ◆ Nurse in surgical areas of plastic surgery and cardiothoracic surgery, La Paz University Hospital
- ◆ Instrumentalist in traumatology at Nuestra Señora del Rosario Hospital
- ◆ Speaker at the 43rd AEEC Congress. Clinical Cases I

Ms. López Quesada, Teresa

- ◆ Assistant Director of Nursing at La Paz University Hospital
- ◆ Unit Supervisor. Surgical Hospitalization. Traumatology La Paz University Hospital
- ◆ Nurse in Surgical Block, Neurosurgery and Cardiothoracic Surgery. La Paz University Hospital
- ◆ Nurse in critical care, operating room and hemodynamics Gregorio Marañón University Hospital Gregorio Marañón University Hospital
- ◆ Head of the Resuscitation Unit, URPA, CMA. Infanta Sofía University Hospital
- ◆ Nurse in the Intensive Care Unit. Nuestra Señora del Rosario Hospital
- ◆ Master in Nursing Services Management. National University for Distance Learning. U.N.E.D

Ms. Palomares García, Vanessa

- ◆ Nurse expert in Hospital Emergencies





- ◆ Emergency Care Nurse in the Aragonese Health Service
- ◆ Nurse in Surgical Plants for the Aragonese Health Service
- ◆ Nurse in Oncologic Plants for the Aragonese Health Service
- ◆ Internal Medicine Nurse for the Aragonese Health Service in the Internal Medicine Department
- ◆ Nurse in private center of Sanitas
- ◆ Auxiliary Nurse in Neuropsychiatric Hospital del Carmen
- ◆ Master's Degree in Natural Disasters and Health Emergencies, Camilo José Cela University
- ◆ Degree in Nursing from San Jorge University

Ms. Valero Villar, Ana María

- ◆ Operating Room Nurse since 2008 in the specialties of Traumatology and Plastic Surgery
- ◆ Advanced Operating Room Nurse Specialist
- ◆ Nurse in Traumatology and Plastic Surgery at Gregorio Marañón University Hospital in Madrid
- ◆ Nurse in Traumatology and Orthopedics at La Paz in Madrid University Hospital
- ◆ Postgraduate Diploma in Nursing in the surgical area, Anesthesia and Resuscitation School of Health Sciences
- ◆ Postgraduate Diploma in Health Promotion in the Community. UNED

04

Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of training in daily nursing practice, aware of the relevance of current specialization in order to implement the appropriate use of surgical nursing and committed to quality teaching through new educational technologies.





“

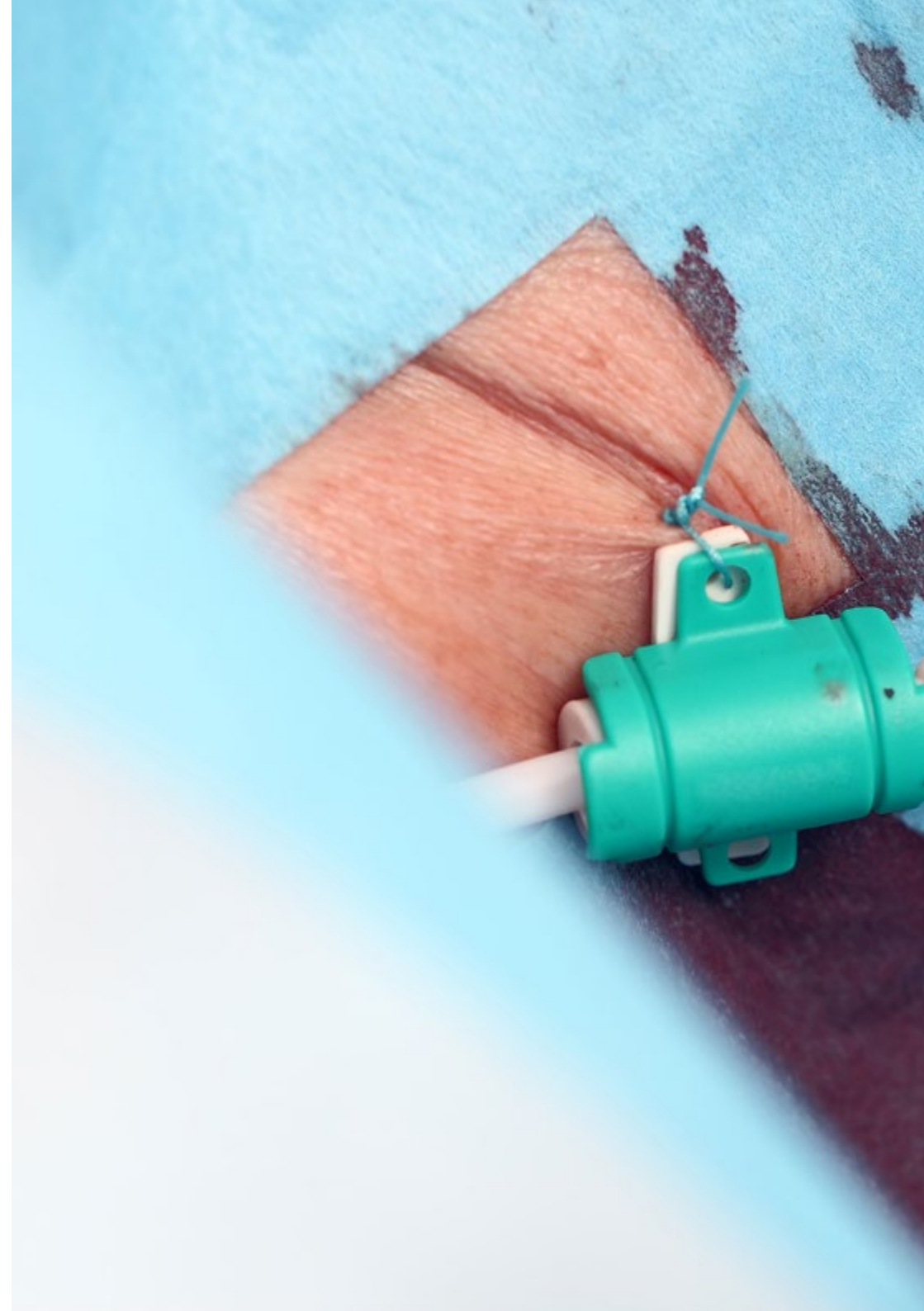
*A unique syllabus that will be
of great use in nursing care”*

Module 1. Perioperative Surgical Process

- 1.1. Definition Perioperative Surgical Process
- 1.2. Pre-Surgery Surgical Process
- 1.3. Intraoperative Surgical Process
- 1.4. Post-Surgery Surgical Process

Module 2. Orthopaedic Surgery and Traumatology

- 2.1. Particularities in TOC
- 2.2. MMSS Primary Prosthesis and Surgical Cementation
- 2.3. Primary Prosthesis MMII
- 2.4. Replacement of Primary Prostheses, Surgical Washing and Spacers
- 2.5. Osteosynthesis 1: Consolidation, Reduction and Stability
- 2.6. Osteosynthesis 2: Fracture Fixation
- 2.7. Peri-implant Osteosynthesis, EMO and O-ARM®.
- 2.8. Osteosynthesis in the Axial Skeleton
- 2.9. Exploratory Arthroscopy and Repair of Tendon Structures
- 2.10. Tumour and Experimental Surgery





“

*A unique specialization experience,
key and decisive to boost your
professional development”*

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 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.

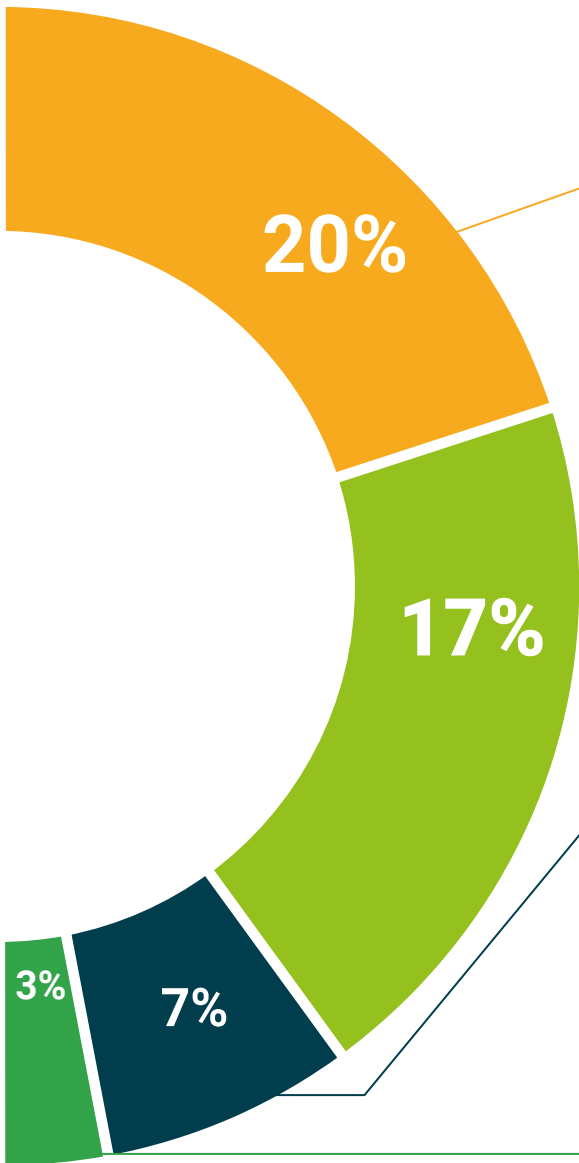
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 Diploma in Orthopedic and Traumatology Surgery for Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Global University.





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 Diploma in Orthopedic and Traumatology Surgery 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.

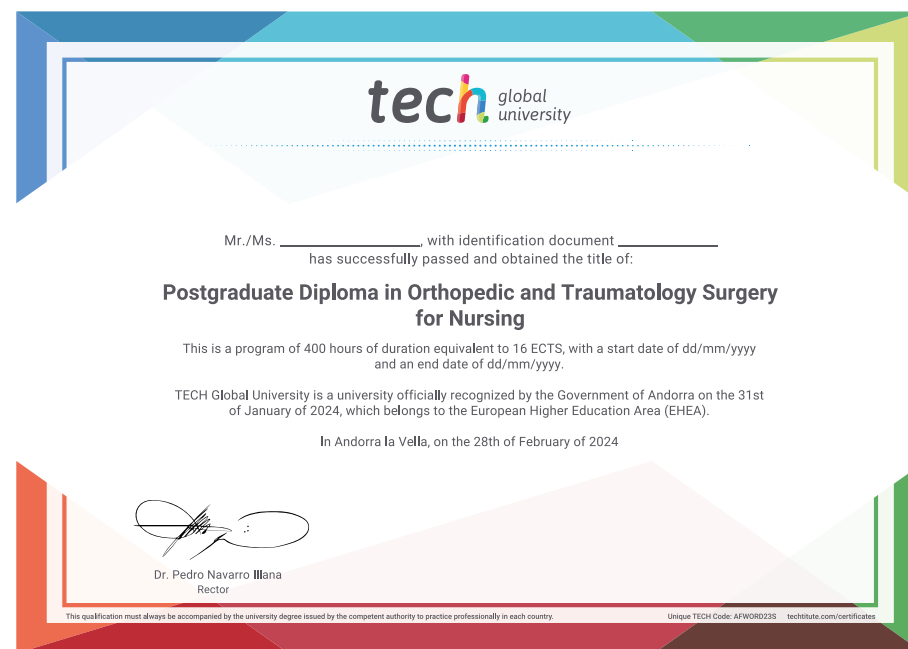
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Orthopedic and Traumatology Surgery for Nursing**

Modality: **online**

Duration: **6 months**

Accreditation: **16 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.



Postgraduate Diploma
Orthopedic and
Traumatology
Surgery for Nursing

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 16 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Diploma

Orthopedic and Traumatology Surgery for Nursing

