

# Hybrid Master's Degree Trauma Nursing



## Hybrid Master's Degree Trauma Nursing

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Global University

60 + 5 créditos ECTS

Website: [www.techtute.com/us/nursing/hybrid-master-degree/hybrid-master-degree-trauma-nursing](http://www.techtute.com/us/nursing/hybrid-master-degree/hybrid-master-degree-trauma-nursing)

# Index

01

Introduction

---

*p. 4*

02

Why Study this Hybrid  
Master's Degree?

---

*p. 8*

03

Objectives

---

*p. 12*

04

Skills

---

*p. 16*

05

Course Management

---

*p. 20*

06

Educational Plan

---

*p. 26*

07

Clinical Internship

---

*p. 34*

08

Where Can I Do the Clinical  
Internship?

---

*p. 40*

09

Methodology

---

*p. 46*

10

Certificate

---

*p. 54*

# 01

# Introduction

In recent years, Traumatology has incorporated less invasive surgical techniques, which make it possible to solve pathologies, avoid stiffness and facilitate earlier rehabilitation. In this scenario, the care and methods employed by nursing professionals contribute to both patient assessment and recovery. These advances make it necessary to up-to-date knowledge and that is why TECH offers this degree with a 100% online theoretical framework. Therefore, through quality multimedia content and an excellent teaching team with extensive experience in this area, the professional will begin to up-to-date. This program is completed by a practical stay of 3 weeks in a reference clinical center, together with specialists in the area of Traumatology.



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*Up-to-date yourself thanks to this program in Trauma Service Nursing and incorporate the latest technical and methodological advances in this area into your daily work"*

Of the many existing clinical areas, Traumatology is one of those that has evolved most recently thanks to new technologies and the use of more precise techniques. As a result, patients now receive more accurate diagnoses, better treatment and a reduction in pain following surgery.

Faced with this reality, the nursing professional must update the approach and management of the patient in this specialty. For this reason, TECH has designed this Hybrid Master's Degree in Trauma Nursing, which offers you the most advanced and recent information in this area throughout one year.

An intensive program, which will lead the graduate to deepen through multimedia didactic material on issues such as instrumentation in the main surgical techniques in orthopedics, degenerative diseases of the musculoskeletal system, the anatomical-physiological memory or biomechanics of the spine.

For this reason, the academic path of this program is developed in a first stage, where the graduate will have access to the most updated theoretical knowledge through an online teaching methodology. Once this phase is completed, the professional will enter an eminently practical and face-to-face stage in a prestigious clinical center.

A 3-week stay, where you will be able to apply the concepts shown in the syllabus, in a real health scenario and with patients in the area of Traumatology. During this period, the nurse will not be alone, as they will be tutored and accompanied by a specialized team, which is part of the center where the stay is carried out. An excellent opportunity to up-to-date your knowledge through a university degree at the forefront of the academic scene.

This **Hybrid Professional Master's Degree in Trauma Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Development of more than 100 clinical cases presented by nursing professionals with expertise in Traumatology
- ♦ 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
- ♦ Techniques in Assessment and Monitoring of the Trauma Patient
- ♦ Comprehensive systematized action plans for the main the area of Traumatology injuries and pathologies
- ♦ Presentation of practical workshops on procedures, diagnosis, and treatment techniques in with trauma patients
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ♦ Practical clinical guides on approaching different pathologies
- ♦ With a special emphasis on evidence-based medicine and research methodologies in Traumatology
- ♦ 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
- ♦ Furthermore, you will be able to carry out a clinical internship in one of the best hospital centers

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*This Hybrid Master's Degree will allow you to deepen in the latest developments in nutrition in trauma patients and surgical ischemia"*

This Master's program, which has a professionalizing nature and Communication Management blended learning modality, is aimed at updating For Nursing professionals who perform their functions in aesthetic units, and who require a high level of qualification. The content is based on the latest scientific evidence and is organized in a didactic way to integrate theoretical knowledge into nursing practice. The theoretical-practical elements allow professionals to up-to-date their knowledge and help them to make the right decisions in patient care.

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 an immersive education program 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 throughout the program. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*Get up to speed in a real environment thanks to the on-site internships you will have access to with this refresher program.*

*A highly competent teaching staff that will accompany you throughout the learning process.*



02

# Why Study this Hybrid Master's Degree?

There is no doubt that, in the healthcare field, theoretical knowledge must be put directly into practice in order to achieve optimal work. Therefore, in an area such as Traumatology, it is essential for nursing professionals to be aware of the new techniques and procedures used. For this reason, TECH has created this pioneering degree, which combines an up to date in the diagnosis of trauma patients, nursing work in orthopedics and operating room care, with a practical stay in a reference clinical center. This provides the graduate with a complete vision of the current panorama in the Traumatology Service, guided during this process by experts in this specialty.





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*TECH gives you the opportunity to up-to-date your knowledge with real professionals with experience in the provision of trauma nursing services”*

### 1. Updating from the Latest Technology Available

New technologies have favored the incorporation of innovative techniques, materials and instruments in the area of traumatology. This has made it possible to offer better care to the patients who come to this service. For this reason, and with the aim of offering the nursing professional these innovations, TECH has designed this degree, where the graduate will receive a theoretical and practical update of their knowledge. All this, through an excellent team of professionals, who will guide you to successfully achieve the update in Nursing in the Traumatology Service.

### 2. Gaining In-depth Knowledge from the Experience of Top Specialists

During this academic program, the professional will have at his disposal a specialized team with extensive experience in the nursing area in prestigious hospitals. Therefore, in this updating process, the graduate will not only have an expert teaching staff, but will also be tutored by a professional, who will show them the latest techniques and procedures used in this area. All this will allow you to update and integrate the most recent methods used in this healthcare field.

### 3. Entering First-Class Clinical Environments

In order to offer the health professional a quality qualification, TECH has rigorously selected all the centers available for the practical stay in the Traumatology Department. This will take you for 3 weeks to see the daily practice of nursing professionals, as well as the specific and rigorous work that must be done in the care of patients in this area.





#### 4. Combining the Best Theory with State-of-the-Art Practice

The current academic landscape does not adapt its content to the needs of professionals. This is why TECH has decided to break into the market with the proposal of a degree, which offers an eminently practical stay in a prestigious center. A period, which will lead the professional to collaborate in procedures and to apply techniques that will allow them to integrate the latest developments in the area of patient care in the Traumatology service. An excellent opportunity to carry out, in only 3 weeks, an intense practical up-to-date.

#### 5. Expanding the Boundaries of Knowledge

This academic institution offers graduates the opportunity to expand their capabilities and skills in the attention and care of patients in the area of Traumatology. Likewise, thanks to the completion of this program, the graduate incorporates to their curriculum a Hybrid Master's Degree, which will lead them to progress in their professional sphere, opening doors to access to reference hospital centers.

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*You will have full practical immersion  
at the center of your choice”*

# 03 Objectives

The main objective of this Hybrid Master's Degree in Trauma Nursing is to provide the professional with a complete and deep update in this health area. And for this, TECH offers the best teachers, the latest content and an innovative teaching methodology. All this, in a degree that adapts to your personal circumstances and a practical stay in which you will be able to apply all the knowledge updated throughout the academic itinerary.





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*This university degree will bring you up to date in the diagnosis and care of the trauma patient"*



## General Objective

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- This Hybrid Master's Degree has been designed to provide professionals with the most accurate theoretical and practical knowledge that will help them in their daily practice in the Traumatology service. For this purpose, the most innovative pedagogical tools and clinical case studies are available, which will give you a more direct and real vision, allowing you to perfect your Traumatology Nursing techniques.



*The case studies of this Hybrid Professional Master will allow you to integrate the different techniques and methodologies shown"*



## Specific Objectives

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### **Module 1. Assessment and Diagnosis of the Trauma Patient for Nursing**

- In-depth knowledge of the different examination and assessment techniques in traumatology
- Manage the different methods of interview and diagnosis in trauma nursing
- Evaluate patients with musculoskeletal and neurological problems

### **Module 2. Nursing Care in Trauma Pathology**

- Acquire specific knowledge about traumatic pathology, fractures, their treatments and complications
- Specialize in all nursing interventions in trauma emergencies

### **Module 3. Nursing Care in Non-Traumatic Pathology**

- Obtain an in-depth knowledge of osteoporosis and osteoarthritis, the most prevalent non-traumatic diseases
- Management of nursing care in patients with non-traumatic pathology

### **Module 4. Trauma and Orthopedic Nursing in Spine Pathology**

- Provide state-of-the-art knowledge of spinal pathology
- Manage the different techniques for the assessment and diagnosis of patients with spinal pathology
- Discern and correctly apply the different types of treatment in spinal pathology; surgical, conservative and rehabilitative

**Module 5. Trauma and Orthopedic Nursing in the Pathology of the Upper Limb**

- ♦ Provide up to date knowledge of upper limb pathology
- ♦ Manage the different techniques for the assessment and diagnosis of patients with shoulder, elbow and hand pathology
- ♦ Discern and correctly apply the different types of treatment in upper limb pathology; surgical, conservative and rehabilitative

**Module 6. Trauma and Orthopedic Nursing in Lower Limb Pathology**

- ♦ Provide up to date knowledge of lower limb pathology
- ♦ Manage the different techniques for the assessment and diagnosis of patients with hip, knee and foot pathology

**Module 7. Nursing care in Orthogeriatrics**

- ♦ Instruct different nursing professionals who wish to acquire a deeper and more specific knowledge of the traumatological processes affecting the elderly
- ♦ Gain an in-depth knowledge of the attention and care required by ortho-geriatric patients

**Module 8. Traumatology and Orthopedic Nursing in Musculoskeletal Tumors**

- ♦ Become familiar with the knowledge about the different types of cancer associated with traumatology
- ♦ Gain a strong understanding of both primary and palliative treatments
- ♦ Develop care planning strategies for oncology patients

**Module 9. Nursing Care in the Traumatology Operating Room**

- ♦ Gain knowledge about the different surgical techniques in traumatology
- ♦ Specialize in different postural and specific operating room care
- ♦ Identify possible problems that may arise in the trauma operating room and be aware of the different solutions
- ♦ Be up to date on all aspects of patient safety in the surgical environment

**Module 10. Nursing care in Trauma Hospitalization**

- ♦ Identify and plan nursing care in hospitalization of trauma patients
- ♦ Appropriate use of the main standardized care plans in OTS
- ♦ Have up to date knowledge and the latest scientific research on trauma patients focused on day-to-day healthcare practice

# 04 Skills

Throughout this Hybrid Master's Degree in Trauma Nursing, the professional will enhance their skills and abilities in the assessment and diagnosis of this health area. Therefore, you will incorporate procedures, techniques and protocols in the care of trauma and injury patients into your daily work. To achieve this, you will have at your disposal an excellent teaching team that will guide you in this process.







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*Improve and up-to-date your skills as a professional nurse in the Traumatology Service thanks to this program, aimed to up to date the professional"*



## General Skills

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- Possess and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context
- Apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field of study
- Integrate knowledge and face the challenge of making judgements based on incomplete or limited information. In addition, include reflections on the social and ethical responsibilities linked to implementing this knowledge and judgement
- Know how to communicate conclusions knowledge, and supporting arguments to specialized and non-specialized audiences in a clear and unambiguous way
- Acquire the learning skills that will enable them to continue studying in a manner that will be largely self-directed or autonomous





## Specific Skills

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- ◆ Know how to differentiate the types of trauma patients we may encounter
- ◆ Perform a correct assessment of the trauma patient
- ◆ Improve the role of Nursing in the radiology unit
- ◆ Manage the different methods of interview and diagnosis in trauma nursing
- ◆ Specialize in all nursing interventions in trauma emergencies
- ◆ Gain an in-depth knowledge of diseases osteoporosis and osteoarthritis
- ◆ Gain an in-depth knowledge of the attention and care required by ortho-geriatric patients
- ◆ Develop care planning strategies for with trauma patients
- ◆ Gain knowledge about the different surgical techniques in traumatology
- ◆ Apply the main standardized care plans in OTS

05

# Course Management

In addition to the innovative teaching system used in this program and its advanced content, the program's teaching staff is also highly qualified. The teaching staff of this Hybrid Master's Degree in Trauma Nursing has been carefully selected by TECH, so that the nursing professional will have access to great experts in this area throughout the degree. In this way, you will get an up-to-date directly from specialists.



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*The teaching staff of this program is composed of great specialists, who will help you get up to date with nursing care in traumatic pathology”*

## Management



### Ms. Álvarez Calvo, Alicia

- Trauma Nurse Practitioner
- Instrumentalist Nurse at Sacred Heart Cardiology Institute
- Head Nurse of the Traumatology and Spine Operating Room of the Hospital Clínico Universitario de Valladolid
- Instrumentalist Nurse at the Valladolid Interventional Medical Center
- Emergencies Nurse in Castilla y León primary care of Health Department (SACYL)
- Associate Professor of Surgical Conditions in Traumatology in the Degree in Physiotherapy at the Universidad Europea Miguel de Cervantes
- Diploma in Nursing from the University of Valladolid
- Diploma in Public Health
- Master in Clinical Processes Resolution. By University of Alcalá
- University Expert in Emergencies by the European University Miguel de Cervantes
- Collaborator in practical training for the of the University of Valladolid nursing degree
- Member of the Spanish Association of Trauma Nursing and(AEETO) and Spanish Association of Vascular and Injury Nursing.(AEEVH)

## Professors

### Mr. Álvarez Brewers, Héctor

- ♦ Specialist in Clinical Symptoms Physiotherapy
- ♦ Physiotherapist at Medrano clinic
- ♦ Founder of Medrano Physiotherapy in Palencia
- ♦ Graduate in Physiotherapy

### Ms. Cabero García, Begoña

- ♦ Trauma Nurse Practitioner
- ♦ Nurse at the Clinical symptoms University Hospital of La Ribera)
- ♦ Degree in Nursing from the University of Valladolid given by the University of León

### Dr. Santiago Maniega, Silvia

- ♦ Medical Specialist in Orthopedic Surgery and Traumatology
- ♦ Doctor Specialist in the Spine Unit, Hospital Clínico Universitario de Valladolid, HCUV)
- ♦ Degree in Medicine and Surgery from the University of Salamanca
- ♦ Specialist in Orthopedic and Trauma Surgery

### Mr. Mate Espeso, Adriano

- ♦ Head of Nursing Unit of the Pediatric Emergency Unit at the Clinical University Hospital of Valladolid(HCUV)
- ♦ HCUV Pediatric Emergency Nursing Supervisor
- ♦ Special Services Nurse in the HCUV
- ♦ Assistant Nurse of Home at the Gregorio Marañón Hospital from Madrid
- ♦ Degree in Nursing from the University of León
- ♦ Master's Degree in Social and Health Sciences Research from the University of León
- ♦ Master's Degree in Health Services Management from the University of León

### Ms. Nicolás Sacristán, Teresa

- ♦ Nurse at the Clinical symptoms University Hospital of La Ribera)
- ♦ Postgraduate Certificate in Nursing
- ♦ Mental Health Specialist
- ♦ Member of the HCUV Asthma Committee

**Ms. García Caridad, Laura**

- ♦ Traumatology Nurse at the Hospital Clínico Universitario de Valladolid (HCUV)
- ♦ Obstetric-Gynecological Nurse Specialty at the Donostia University Hospital
- ♦ Expert in Assisted Reproduction Nursing at the Universidad Rey Juan Carlos URJC and the Spanish Fertility Society
- ♦ Graduate in Nursing from the University of Salamanca

**Dr. León Andrino, Alejandro Ángel**

- ♦ Specialist in Traumatology and Orthopedic Surgery
- ♦ Medical Director and Traumatologist at Clínica Plenum in Valladolid
- ♦ Alternate Emergency Chief of the Self-Protection Plan of the Hospital Clínico Universitario de Valladolid
- ♦ Traumatologist and Orthopedic Surgeon at the Recoletas Campo Grande Hospital in Valladolid
- ♦ Stryker Ibérica Consultant in the area of Sport Medicine
- ♦ Member of the Transfusion Commission of the Hospital Clínico Universitario de Valladolid
- ♦ Quality Agent on behalf of the Traumatology and Orthopedic Surgery Department of the Hospital Clínico Universitario de Valladolid
- ♦ Implementation of Quality System Management UNE-EN-ISO 9001-200
- ♦ Specialized Teaching Resident Tutor
- ♦ Associate Professor of Surgical Conditions in the Degree of Physiotherapy at the Universidad Europea Miguel de Cervantes
- ♦ Associate Professor of Surgical Conditions in the Occupational Therapy Degree at the Universidad Europa Miguel de Cervantes





- ◆ Honorary Collaborator in the Department of Surgery of the Faculty of Medicine of the University of Valladolid
- ◆ Honorary Collaborator Associated with the Department of Chemical Engineering of the School of Industrial Engineering of the University of Valladolid
- ◆ PhD in Research in Surgery” from the University of Valladolid
- ◆ Doctor in Health Sciences, Faculty of Medicine, University of Valladolid
- ◆ Graduate in Medicine and Surgery from the University of Valladolid
- ◆ Training Stay at Mount Sinai Hospital in Juiz de Fora, Brazil
- ◆ Specialist in General and Digestive System Surgery through the RMI program at Clinical University Hospital Valladolid
- ◆ Training Rotation at the Mayo Clinic Rochester of Minnesota
- ◆ Training Rotation at the Humanitas Clinical Institute in Milan, through the European Scholarship of the SECOT
- ◆ Miguel Cabanela Travelling Fellowship Award by SECOT
- ◆ Member of the Spanish Society of Orthopedic Surgery and Traumatology (SECOT) and the Official College of Physicians of Valladolid

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*In the human quality and proximity the team teachers will allow you to solve any doubts you may have about the content of of this 100% online program”*

# 06

## Educational Plan

This Hybrid Master's Degree in Trauma Nursing is structured in 10 specialized modules, through which the professional will be able to delve into issues such as traumatic pathologies of the elbow and forearm, mobilization of patients in different trauma processes, nursing care in infections of the locomotor system or the prevention and promotion of musculoskeletal health in the elderly.





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*In thanks to the Relearning system to reduce the long hours of study and memorization”*

### Module 1. Assessment and Diagnosis of the Trauma Patient for Nursing

- 1.1. Musculoskeletal Examination for Nursing
- 1.2. Medical History and Personal Interview
  - 1.2.1. Medical History
  - 1.2.2. Key Questions: Start, Duration, Frequency and Location
  - 1.2.3. Main Symptoms in Traumatology
    - 1.2.3.1. Inflammatory Process
- 1.3. Objective Examination for Nursing
  - 1.3.1. Inspection of Body Alignment and Gait
  - 1.3.2. Muscle Tendon Palpation
  - 1.3.3. Examination of Reflexes
  - 1.3.4. Active, Passive and Resisted Mobility
- 1.4. Nursing Assessment and Examination of the Scapulohumeral Girdle
  - 1.4.1. Inspection
  - 1.4.2. Mobility Assessment (Active, Passive and Resisted)
  - 1.4.3. Palpitation
  - 1.4.4. Specific Diagnostic Tests
- 1.5. Nursing Assessment and Examination of the Elbow, Wrist and Hand
  - 1.5.1. Inspection
  - 1.5.2. Mobility (Active, Passive and Resisted )
  - 1.5.3. Palpitation
  - 1.5.4. Specific Diagnostic Tests
- 1.6. Cervical and Thoracic Spine Assessment and Examination in Nursing
  - 1.6.1. Inspection
  - 1.6.2. Mobility (Active, Passive and Resisted )
  - 1.6.3. Palpitation
  - 1.6.4. Specific Diagnostic Tests
- 1.7. Assessment and Diagnosis of the Lumbar Spine and Pelvis for Nursing
  - 1.7.1. Inspection
  - 1.7.2. Mobility (Active, Passive and Resisted )
  - 1.7.3. Palpitation
  - 1.7.4. Specific Diagnostic Tests

- 1.8. Hip Assessment and Diagnosis for Nursing
  - 1.8.1. Inspection
  - 1.8.2. Mobility (Active, Passive and Resisted )
  - 1.8.3. Palpitation
  - 1.8.4. Specific Diagnostic Tests
- 1.9. Nursing Assessment and Examination of the Knee, Ankle and Foot
  - 1.9.1. Inspection
  - 1.9.2. Mobility (Active, Passive and Resisted )
  - 1.9.3. Palpitation
  - 1.9.4. Specific Diagnostic Tests
- 1.10. Neurological Examination

### Module 2. Nursing Care in Trauma Pathology

- 2.1. Cutaneous and Musculoskeletal Traumas
  - 2.1.1. Contusions and Trauma
  - 2.1.2. Contusions and Injuries
  - 2.1.3. Characterization of Scarring
  - 2.1.4. Nursing Care in Different Wounds
- 2.2. Sprains and Dislocations
  - 2.2.1. Diagnosis and Classification
  - 2.2.2. Treatment Principles
  - 2.2.3. Main Complications
- 2.3. Tendon Ruptures
  - 2.3.1. Diagnosis and Classification
  - 2.3.2. Treatment Principles
  - 2.3.3. Main Complications
- 2.4. Amputations
- 2.5. Burns
  - 2.5.1. Classification
  - 2.5.2. Treatment and Complications
  - 2.5.3. Nursing Care of Burns

- 2.6. Trauma to the Bones. Fractures in Adults
  - 2.6.1. Diagnosis and Classification
  - 2.6.2. Treatment Principles
  - 2.6.3. Main Complications
- 2.7. Trauma to the Bones. Fractures in Pediatrics
  - 2.7.1. Diagnosis and Classification
  - 2.7.2. Treatment Principles and Complications
- 2.8. General Complications of Fractures
  - 2.8.1. Fat Embolism Syndrome
  - 2.8.2. Vasculonervous complications
  - 2.8.3. Thromboembolism
- 2.9. Local Complications of Fractures
  - 2.9.1. Compartment Syndrome
  - 2.9.2. Delayed Consolidation and Vicious Consolidation
  - 2.9.3. Sympathetic Reflex Dystrophy
  - 2.9.4. Alteration of Longitudinal Bone Growth
  - 2.9.5. Avascular Necrosis
  - 2.9.6. Joint Stiffness, Post-Traumatic Osteoarthritis and Periarticular Ossification
- 2.10. Polyfractured and Trauma Patient
  - 2.10.1. Severe Trauma Assessment
  - 2.10.2. Post-traumatic Shock (hypovolemic, neurogenic, septic, cardiogenic)
  - 2.10.3. Nursing Care in the Different Types of Shock
- 2.11. Principles of Immobilization
- 2.12. Medical Treatment
  - 2.12.1. Calcium and Vitamin D
  - 2.12.2. Inhibition of Bone Formation. Bisphosphonates. Calcitonin. Raloxifen
  - 2.12.3. Bone Formation. Strontium Ranelate. Teriparatide
- 2.13. Principles of Fracture Rehabilitation

### Module 3. Nursing Care in Non-Traumatic Pathology

- 3.1. Degenerative Diseases of the Musculoskeletal System
  - 3.1.1. Arthrosis
  - 3.1.2. Arthropathies
- 3.2. Metabolic and Autoimmune Diseases
  - 3.2.1. Osteoporosis and Osteomalacia
  - 3.2.2. Rheumatoid Arthritis
- 3.3. Mobility Limitations, Stiffness and Ankylosis
- 3.4. Neurological Lesions
  - 3.4.1. Peripheral Nerve Injuries
- 3.5. Nerve Compression Injuries
  - 3.5.1. Carpal Tunnel Syndrome
  - 3.5.2. Tarsal Tunnel Syndrome
- 3.6. Infection in Traumatology
  - 3.6.1. Most Frequent Infections in Traumatology
  - 3.6.2. Diagnostic Methods and Classification of Infections
  - 3.6.3. Treatment and Prophylaxis of Infection
  - 3.6.4. Osteomyelitis
  - 3.6.5. Nursing Care in Locomotor System Infections
- 3.7. Pain in Traumatology
  - 3.7.1. Diagnosis and Classification
  - 3.7.2. Treatment Principles
  - 3.7.3. Nursing Care in Pain
- 3.8. Inflammation Processes
  - 3.8.1. Inflammatory Process
  - 3.8.2. Main Treatments
  - 3.8.3. Nursing Care in the Inflammatory Process
- 3.9. Prevention and Health Education in Non-Traumatic Pathologies
- 3.10. Physiotherapy and Rehabilitation in Non-Traumatic Processes

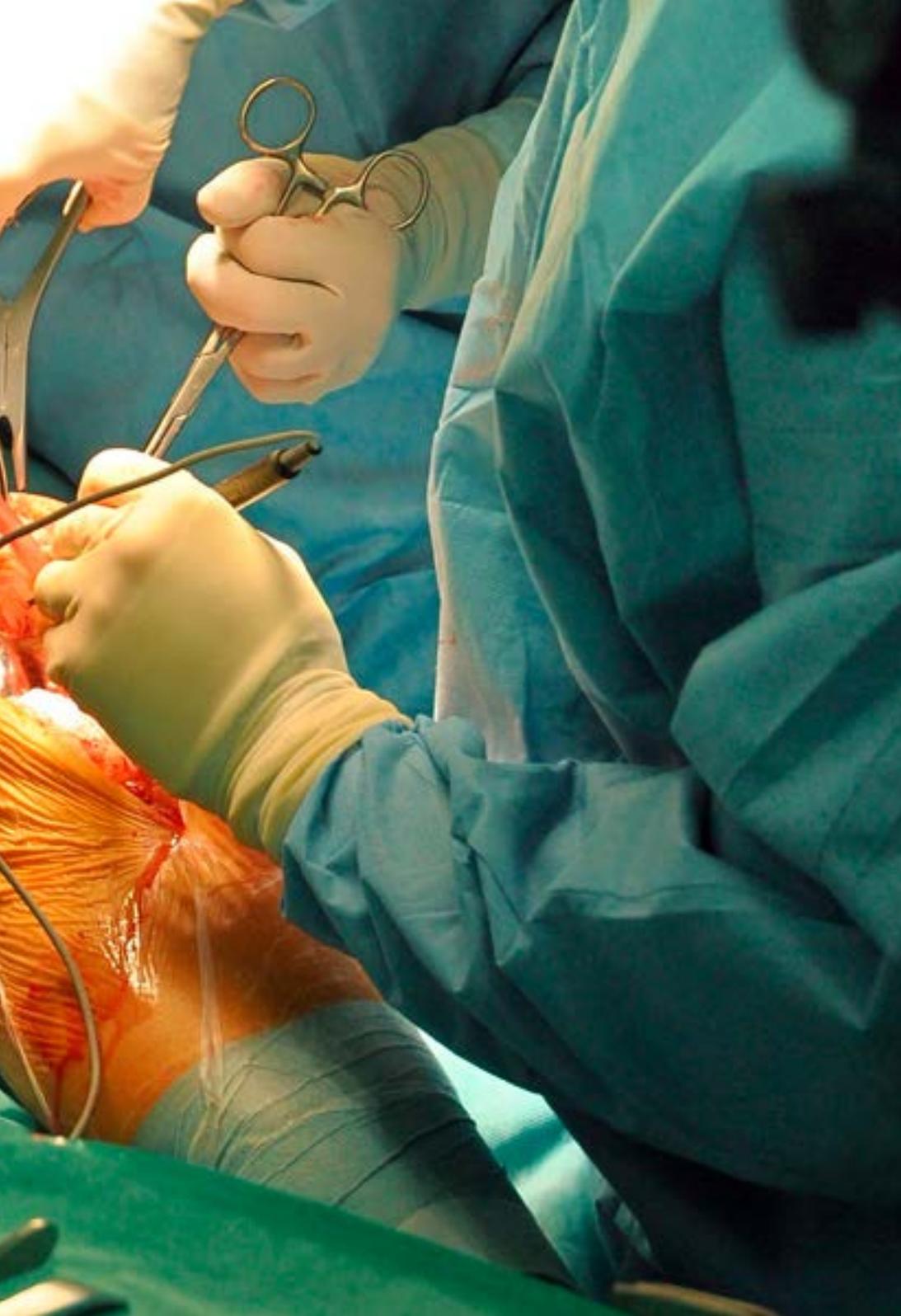
#### Module 4. Trauma and orthopedic nursing in spine pathology.

- 4.1. Anatomic-physiologic Refresher Course with the Biomechanics of the Spinal Column.
- 4.2. Imaging and Diagnostic Techniques in the Spine
- 4.3. Spinal Trauma Pathology
  - 4.3.1. General Information on Vertebral Fractures
  - 4.3.2. Traumatic Instability of the Vertebral Column
    - 4.3.2.1. Spinal Cord Injury. Evaluation and Management
- 4.4. Pathology of Disk Disorders and Degenerative Disc Disease
  - 4.4.1. Herniated Disc. Adjacent Disc Syndrome
  - 4.4.2. Osteoporotic Vertebral Fractures
  - 4.4.3. Canal stenosis
  - 4.4.4. Ankylosing spondylitis
- 4.5. Deformities
  - 4.5.1. Scoliosis
  - 4.5.2. Spondylolisthesis
  - 4.5.3. Hyperkyphosis
  - 4.5.4. Hyperlordosis
- 4.6. Spinal Column Infections
- 4.7. Rheumatic Spinal Disorders
- 4.8. Surgical Navigation and Neurophysiological Monitoring
- 4.9. Spine Rehabilitation
- 4.10. Conservative Treatment of the Spine

#### Module 5. Trauma and Orthopedic Nursing in the Pathology of the Upper Limb

- 5.1. Anatomical-physiological Refresher Course
- 5.2. Techniques of Diagnostic Imaging of the Upper Limb
- 5.3. Traumatic Pathology of the Scapulohumeral Girdle
  - 5.3.1. Clavicle Fractures and Dislocations
  - 5.3.2. Humeral Fractures
  - 5.3.3. Rotator Cuff Tears and SLAP Tear
- 5.4. Traumatic Pathology of the Elbow and Forearm
  - 5.4.1. Fractures of the Olecranon and Radial Head
  - 5.4.2. Post-traumatic Stiffness





- 5.5. Traumatic Pathology of the Hand and Wrist
  - 5.5.1. Metacarpal Fractures
- 5.6. Non-Traumatic Pathology of the Scapulohumeral Girdle
  - 5.6.1. Glenohumeral Arthrosis
  - 5.6.2. Subacromial Syndrome
  - 5.6.3. Shoulder Instability
- 5.7. Non-traumatic Pathology of the Elbow and Forearm
  - 5.7.1. Arthrosis
- 5.8. Non-traumatic Pathology of the Hand
- 5.9. Physiotherapy and Rehabilitation of the Upper Limbs
- 5.10. Nursing Care of the Patient with Upper Limb Injuries

## Module 6. Trauma and Orthopedic Nursing in Lower Limb Pathology

- 6.1. Anatomical-physiological Refresher Course
- 6.2. Techniques of Diagnostic Imaging of the Lower Limb
- 6.3. Traumatic Pelvis and Hip Pathology
  - 6.3.1. Pelvis and Hip Fractures
  - 6.3.2. Hip Dislocation
- 6.4. Traumatic Pathology of the Lower Limbs
  - 6.4.1. Fractures of the Femur, Tibia and Fibula
  - 6.4.2. Ankle and Foot Fractures
- 6.5. Non-traumatic Pathology of the Lower Limbs
  - 6.5.1. Coxarthrosis
  - 6.5.2. Gonarthrosis
- 6.6. Pathology of the Extensor Apparatus
  - 6.6.1. Anterior Cruciate Ligament
  - 6.6.2. Posterior Cruciate Ligament
- 6.7. Pathology of the Ankle
- 6.8. Pathology of the Foot
- 6.9. Physiotherapy and Rehabilitation of the Lower Limbs
- 6.10. Nursing Care in Pathologies of the Lower Limbs

### Module 7. Nursing care in Orthogeriatrics

- 7.1. Nursing Assessment and Diagnosis in the Elderly
  - 7.1.1. Assessment Scales in the Elderly
- 7.2. Special Considerations for the Elderly Population
  - 7.2.1. Home and Residential Care
  - 7.2.2. Drug use in the Elderly
- 7.3. Major Geriatric Syndromes
  - 7.3.1. Constipation and Urinary Incontinence
  - 7.3.2. Mild Cognitive Impairment and Acute Confusional State
  - 7.3.3. Malnutrition
  - 7.3.4. Depression
- 7.4. Major Geriatric Syndromes in Traumatology
  - 7.4.1. Gait Disturbance (Orthopedics and Technical Aids)
  - 7.4.2. Falling Syndrome
  - 7.4.3. Immobilization Syndrome (Sarcopenia)
- 7.5. Prevention and Promotion of Musculoskeletal Health in the Elderly
- 7.6. Geriatric Surgical Patient
  - 7.6.1. Prevention of Perioperative Complications in the Elderly Patient
  - 7.6.2. Preparation for Intervention
  - 7.6.3. Antithromboembolic Prophylaxis
  - 7.6.4. Pathologies and Drugs Contraindicating Early Surgery
- 7.7. Postoperative Period in the Elderly in Traumatology
  - 7.7.1. Anemia as a Prognostic Factor. Transfusion Saving Measures
- 7.8. Nursing Care in the Elderly with Traumatic Pathology
  - 7.8.1. National Hip Fracture Registry
- 7.9. Nursing Care of the Elderly with non-Traumatic Pathology
  - 7.9.1. Care Plans for the Orthogeriatric Patient
- 7.10. Principles of Physiotherapy in Geriatrics

### Module 8. Traumatology and Orthopedic Nursing in Musculoskeletal Tumors

- 8.1. Oncology in Traumatology
- 8.2. Primary Bone Tumors, Bone-forming
  - 8.2.1. Primary Malignant Tumors
  - 8.2.2. Primary Intermediate Tumors
  - 8.2.3. Benign Primary Tumors
- 8.3. Primary Bone Tumors, Cartilage-forming
  - 8.3.1. Chondrosarcoma
  - 8.3.2. Chondroblastoma
- 8.4. Giant Cell Tumor
  - 8.4.1. Malignant Giant Cell Tumor
  - 8.4.2. Intermediate Giant Cell Tumor
  - 8.4.3. Benign Giant Cell Tumor
- 8.5. Malignant Round Cell Tumors (Bone Marrow)
- 8.6. Vascular Tumours.
  - 8.6.1. Malignant tumours
  - 8.6.2. Intermediate Tumors
  - 8.6.3. Benign Tumors
- 8.7. Malignant Soft Tissue Tumors
- 8.8. Benign Soft Tissue Tumors
- 8.9. Bone Metastases
- 8.10. Nursing Care in Oncologic Patients in Trauma Orthopedic Surgery

### Module 9. Nursing Care in the Traumatology Operating Room

- 9.1. Asepsis and Antisepsis
  - 9.1.1. Sterilization.
- 9.2. Patient Positioning in the TOC Operating Room
  - 9.2.1. Surgical Positions
  - 9.2.2. Key Aspects of Placing the Patient in Proper Surgical Positioning
- 9.3. Surgical Ischemia
  - 9.3.1. Application Methods
  - 9.3.2. Complications and Contraindications of Ischemia



- 9.4. Anesthesia in Traumatology
  - 9.4.1. Patient Monitoring
  - 9.4.2. Main Anesthetic Techniques in Traumatology
- 9.5. Materials Used in the Traumatology Operating Room
  - 9.5.1. Biomaterials
  - 9.5.2. Metals, Polymers and Ceramics
  - 9.5.3. Principles of Surgical Cementation
- 9.6. Bone Grafts and Tissue Bank
  - 9.6.1. Biological Bone Grafts
  - 9.6.2. Synthetic Bone Grafts
  - 9.6.3. Tissue Bank. Bone and Tissue Explant
- 9.7. Instrumentation in the Main Traumatologic Surgical Techniques
  - 9.7.1. Basic Instruments in Traumatology
  - 9.7.2. Instruments in Osteosynthesis. The Surgical Reduction of Fractures
  - 9.7.3. Instrumentation in Minimally Aggressive Techniques
- 9.8. Instrumentation in the Main Orthopedic Surgical Techniques
  - 9.8.1. Instrumentation in Arthroscopic Surgery
  - 9.8.2. Instrumentation in Arthroplasty Surgery
  - 9.8.3. Instrumentation in Spinal Surgery
- 9.9. Main Complications in the Trauma Operating Room
  - 9.9.1. Complications of the Different Surgical Positions
  - 9.9.2. Most Frequent Anesthetic Complications in the Trauma Operating Room
  - 9.9.3. Bone Cement Implantation Syndrome
- 9.10. Nursing Care in Surgical Patients in Orthopedic and Trauma Surgery
  - 9.10.1. Safe Surgery Program of the National Institute of Health
    - 9.10.1.1. Surgical Checklist
    - 9.10.1.2. Surgical Infection Project ZERO
  - 9.10.2. Surgery in the Context of Covid-19 and Multidrug-Resistant Infections

## Module 10. Nursing care in Trauma Hospitalization

- 10.1. Assessment of Hospitalized Patients in the Traumatology Unit
- 10.2. Multidisciplinary Treatment of Patients in the Traumatology Unit
  - 10.2.1. Pharmacological Treatments
  - 10.2.2. Use of Hot-Cold Therapies
- 10.3. Nursing Care for Postoperative Orthopedic and Trauma Surgery Patients
  - 10.3.1. Nursing Care after Trauma Surgery
  - 10.3.2. Nursing Care after Orthopedic Surgery
  - 10.3.3. Nursing Care after Spine Surgery
- 10.4. Immobilization of Patients in the Different Trauma Processes
  - 10.4.1. Safe Immobilization and Body Alignment Techniques
  - 10.4.2. Effects of Immobilization
  - 10.4.3. Assessment and Care of Patients in Splints and Casts
  - 10.4.4. Assessment and Care of Patients with Skin and Skeletal Traction
- 10.5. Mobilization of Patients in Different Trauma Processes
  - 10.5.1. Safe Mobilization Techniques
  - 10.5.2. Lifting and Ambulation Techniques
- 10.6. Risk Assessment and Prevention of Pressure Ulcers in Trauma Patients
  - 10.6.1. General Concepts about Pressure Ulcers (PU's)
  - 10.6.2. Most used Scales
- 10.7. Nutrition in Trauma Patients
  - 10.7.1. Nutritional Assessment in Trauma Patients
  - 10.7.2. Use of Nutritional Supplements
- 10.8. Rapid Recovery Program in Trauma Surgery
  - 10.8.1. Rapid Recovery. (*Fast-Track* or *Rapid Recovery*)
- 10.9. Inpatient Care Safety
  - 10.9.1. RNAO Best Practice Guidelines
  - 10.9.2. Recommendations for what "not to do".
- 10.10. Standardized Care Plans in OTS Hospitalization
  - 10.10.1. Standard Plan: Herniated Disc
  - 10.10.2. Standard Plan: Hip Fracture
  - 10.10.3. Standard Plan: Knee Prosthesis

07

# Clinical Internship

This Hybrid Master's Degree in Trauma Nursing includes a 3-week internship in a prestigious health center. During this stay, the professional will have access to real patients, to state-of-the-art equipment and will be accompanied by leading specialists from the clinic itself, ensuring that they are actively and dynamically up-to-dated.



“

*Up-to-date yourself thanks to the stay offered by TECH, with which you will be able to put into practice all the knowledge up-to-date throughout the program"*

The period of the on-site stay of this Traumatology Nursing program consists of a practical period in a clinical center of recognized prestige. A face-to-face phase, which takes place over 3 weeks, from Monday to Friday, with 8 consecutive hours of work with an assistant specialist. This stay will allow the professional to see real patients alongside a team of reference professionals in the field of trauma nursing.

In this training proposal, which is completely practical in nature, the activities are aimed at developing and perfecting the competencies necessary for the provision of health care. In this way, the professional will be able to provide support in the performance of examinations, patient assessment and application of certain techniques, under the supervision of a professional from the reference center.

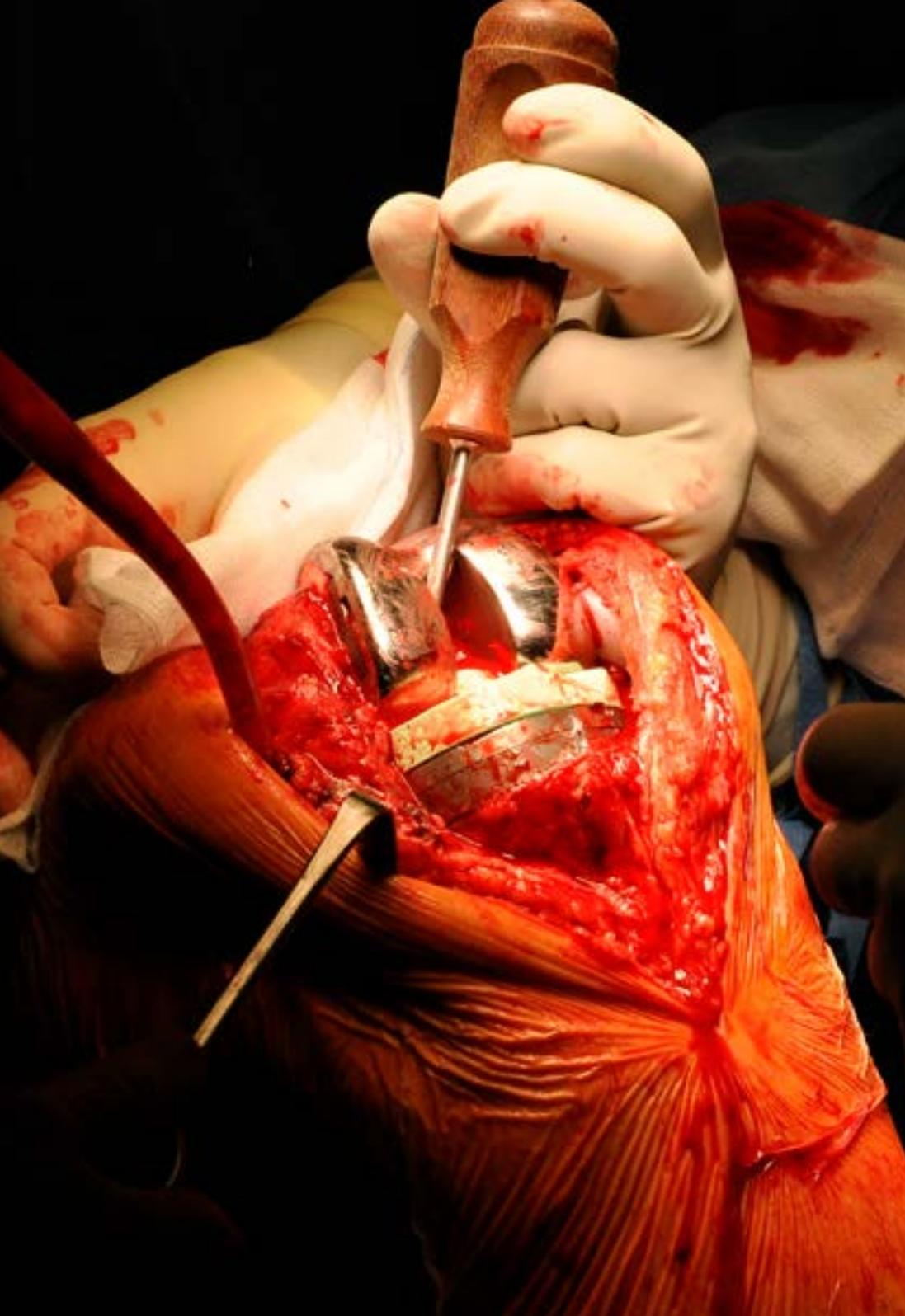
This period is undoubtedly an excellent opportunity to up-to-date knowledge in a real healthcare environment, with patients who require the care and attention of nursing professionals. In addition, all this developed in a prestigious center, which uses the most innovative techniques and methods in this area of Traumatology.

The practical part will be carried out with the active participation of the student performing the activities and procedures of each area of competence (learning to learn and learning to do), with the accompaniment and guidance of teachers and other fellow trainees that facilitate teamwork and multidisciplinary integration as transversal competencies for clinical nursing practice (learning to be and learning to relate).

The procedures described below will be the basis of the practical part of the training, and their implementation will be subject to the center's own availability and workload, the proposed activities being the following:



*With these contents you will be prepared to face all the present and future challenges of the Traumatology”*



Module	Practical Activity
<b>Assessment , and Care of the Trauma Patient</b>	Support in musculoskeletal examination for nursing
	Collaborate in the anamnesis and personal interview of the trauma patient. of the trauma patient
	Assist in the neurological examination of the trauma patient
	Rate Cutaneous and Musculoskeletal Traumas
	Analyzing patients with sprains and dislocations
<b>Nursing Care in Non-Traumatic Pathology</b>	To offer support in the analysis of degenerative diseases of the musculoskeletal system
	Assess neurological injuries in patients with non-traumatic pathologies
	To evaluate compression nerve injuries in patients with non-traumatic pathology
<b>Trauma and Orthopedic Nursing in Spine Pathology</b>	Examination of infections in trauma inpatients
	Collaborate in the performance of diagnostic techniques based on imaging in the spine, upper and lower limbs
	To assist in the performance of physiotherapeutic and rehabilitative techniques of the spine
	correctly apply the different types of treatment in spinal pathology; surgical, conservative and rehabilitative
<b>Nursing Care in Orthogeriatrics</b>	Contribute to the follow-up of patients operated on for spinal pathology
	carries out Nursing Assessment and Diagnosis in the Elderly
	Assess the Geriatric Surgical Patient
	Collaborate in the evaluation of the postoperative period in the elderly in traumatology
<b>Nursing Care in Trauma Hospitalization</b>	Analyze the Nursing Care of the Elderly with Traumatic and non-Traumatic Pathology
	Observe the patient hospitalized in the Traumatology unit and prepare an assessment report for the specialist
	Manage Multidisciplinary Treatment of Patients in the Traumatology Unit cosmetic treatment prescribed by the specialist
	carries out the internships Nursing Care for Postoperative Orthopedic and Trauma Surgery Patients
	Perform Immobilization of Patients in the Different Trauma Processes
	Risk Assessment and Prevention of Pressure Ulcers in Trauma Patients

## Civil Liability Insurance

This institution's main concern is to guarantee the safety of the trainees and other collaborating agents involved in the internship process at the company. Among the measures dedicated to achieve this is the response to any incident that may occur during the entire teaching-learning process.

To this end, this entity commits to purchasing a civil liability insurance policy to cover any eventuality that may arise during the course of the internship at the center.

This liability policy for interns will have broad coverage and will be taken out prior to the start of the practical training period. That way professionals will not have to worry in case of having to face an unexpected situation and will be covered until the end of the internship program at the center.



## General Conditions of the Internship Program

The general terms and conditions of the internship agreement for the program are as follows:

**1. TUTOR:** During the Hybrid Master's Degree, students will be assigned with two tutors who will accompany them throughout the process, answering any doubts and questions that may arise. On the one hand, there will be a professional tutor belonging to the internship center who will have the purpose of guiding and supporting the student at all times. On the other hand, they will also be assigned with an academic tutor whose mission will be to coordinate and help the students during the whole process, solving doubts and facilitating everything they may need. In this way, the student will be accompanied and will be able to discuss any doubts that may arise, both clinical and academic.

**2. DURATION:** The internship program will have a duration of three continuous weeks, in 8-hour days, 5 days a week. The days of attendance and the schedule will be the responsibility of the center and the professional will be informed well in advance so that they can make the appropriate arrangements.

**3. ABSENCE:** If the students does not show up on the start date of the Hybrid Master's Degree, they will lose the right to it, without the possibility of reimbursement or change of dates. Absence for more than two days from the internship, without justification or a medical reason, will result in the professional's withdrawal from the internship, therefore, automatic termination of the internship. Any problems that may arise during the course of the internship must be urgently reported to the academic tutor.

**4. CERTIFICATION:** Professionals who pass the Hybrid Master's Degree will receive a certificate accrediting their stay at the center.

**5. EMPLOYMENT RELATIONSHIP:** the Hybrid Master's Degree shall not constitute an employment relationship of any kind.

**6. PRIOR EDUCATION:** Some centers may require a certificate of prior education for the Hybrid Master's Degree. In these cases, it will be necessary to submit it to the TECH internship department so that the assignment of the chosen center can be confirmed.

**7. DOES NOT INCLUDE:** The Hybrid Master's Degree will not include any element not described in the present conditions. Therefore, it does not include accommodation, transportation to the city where the internship takes place, visas or any other items not listed

However, students may consult with their academic tutor for any questions or recommendations in this regard. The academic tutor will provide the student with all the necessary information to facilitate the procedures in any case.

08

# Where Can I Do the Clinical Internship?

TECH offers the professional a series of specialized clinical centers where they can carry out a face-to-face and intensive stay. This will enable them to incorporate the latest advances in traumatology for Nursing into their daily work, thanks to the activities they will carry out at the hospital. In this way, you will be able to up-to-date your knowledge directly and immediately, adapted to the current healthcare environment.





“

*Do your internship in one of the prestigious clinical centers that TECH has carefully selected”*



The student will be able to complete the practical part of this Hybrid Master's Degree at the following centers:



Nursing

### Clínica Gaias Santiago

Country	City
Spain	La Coruña

Address: Calle Pintor Xaime Quesada 4, 15702, Santiago

Multidisciplinary medical center with assistance in more than a dozen specialties.

**Related internship programs:**

- Nursing in the Gynecology Service
- Nursing in the Traumatology Department



Nursing

### Clínica Gaias Lugo

Country	City
Spain	Lugo

Address: Calle Quiroga Ballesteros, 27001, Lugo

Multidisciplinary medical center with assistance in more than a dozen specialties.

**Related internship programs:**

- Nursing in the Gynecology Department
- Nursing in the Traumatology Service



Nursing

### Hospital HM Modelo

Country	City
Spain	La Coruña

Address: Rúa Virrey Osorio, 30, 15011, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Palliative Care



Nursing

### Hospital Maternidad HM Belén

Country	City
Spain	La Coruña

Address: R. Filantropía, 3, 15011, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Update in Assisted Reproduction
- Hospitals and Health Services Management



Nursing

### Hospital HM Rosaleda

Country	City
Spain	La Coruña

Address: Rúa de Santiago León de Caracas, 1, 15701, Santiago de Compostela, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Hair Transplantation
- Orthodontics and Dentofacial Orthopedics



Nursing

### Hospital HM La Esperanza

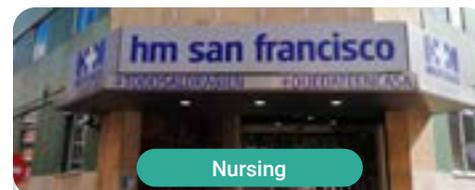
Country	City
Spain	La Coruña

Address: Av. das Burgas, 2, 15705, Santiago de Compostela, A Coruña

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Oncology Nursing
- Clinical Ophthalmology



Nursing

### Hospital HM San Francisco

Country	City
Spain	León

Address: C. Marqueses de San Isidro, 11, 24004, León

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Update in Anesthesiology and Resuscitation
- Nursing in the Traumatology Department



Nursing

### Hospital HM Regla

Country	City
Spain	León

Address: Calle Cardenal Landázuri, 2, 24003, León

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Update on Psychiatric Treatment in Minor Patients



Nursing

### Hospital HM Nou Delfos

Country: Spain City: Barcelona

Address: Avinguda de Vallcarca, 151, 08023 Barcelona

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

- Related internship programs:**
- Aesthetic Medicine
  - Clinical Nutrition in Medicine



Nursing

### Hospital HM Madrid

Country: Spain City: Madrid

Address: Pl. del Conde del Valle de Súchil, 16, 28015, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

- Related internship programs:**
- Palliative Care
  - Anaesthesiology and Resuscitation



Nursing

### Hospital HM Montepríncipe

Country: Spain City: Madrid

Address: Av. de Montepríncipe, 25, 28660, Boadilla del Monte, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

- Related internship programs:**
- Palliative Care
  - Aesthetic Medicine



Nursing

### Hospital HM Torrelodones

Country: Spain City: Madrid

Address: Av. Castillo Olivares, s/n, 28250, Torrelodones, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

- Related internship programs:**
- Anaesthesiology and Resuscitation
  - Palliative Care



Nursing

### Hospital HM Sanchinarro

Country: Spain City: Madrid

Address: Calle de Oña, 10, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

- Related internship programs:**
- Anaesthesiology and Resuscitation
  - Palliative Care



Nursing

### Hospital HM Nuevo Belén

Country: Spain City: Madrid

Address: Calle José Silva, 7, 28043, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

- Related internship programs:**
- General and Digestive System Surgery
  - Clinical Nutrition in Medicine



Nursing

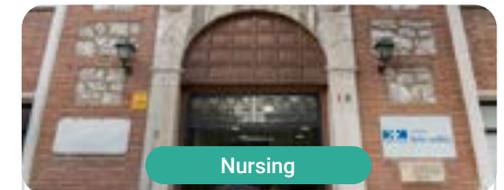
### Hospital HM Puerta del Sur

Country: Spain City: Madrid

Address: Av. Carlos V, 70, 28938, Móstoles, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

- Related internship programs:**
- Palliative Care
  - Clinical Ophthalmology



Nursing

### Hospital HM Vallés

Country: Spain City: Madrid

Address: Calle Santiago, 14, 28801, Alcalá de Henares, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

- Related internship programs:**
- Gynecologic Oncology
  - Clinical Ophthalmology



Nursing

### Policlínico HM Arapiles

Country	City
Spain	Madrid

Address: C. de Arapiles, 8, 28015, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Anaesthesiology and Resuscitation
- Pediatric Dentistry



Nursing

### Policlínico HM Distrito Telefónica

Country	City
Spain	Madrid

Address: Ronda de la Comunicación, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Optical Technologies and Clinical Optometry
- General and Digestive System Surgery



Nursing

### Policlínico HM Gabinete Velázquez

Country	City
Spain	Madrid

Address: C. de Jorge Juan, 19, 1° 28001, 28001, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Clinical Nutrition in Medicine
- Aesthetic Plastic Surgery



Nursing

### Policlínico HM La Paloma

Country	City
Spain	Madrid

Address: Calle Hilados, 9, 28850, Torrejón de Ardoz, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Advanced Operating Room Nursing
- Orthodontics and Dentofacial Orthopedics



Nursing

### Policlínico HM Las Tablas

Country	City
Spain	Madrid

Address: C. de la Sierra de Atapuerca, 5, 28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Nursing in the Traumatology Department
- Diagnosis in Physiotherapy



Nursing

### Policlínico HM Moraleja

Country	City
Spain	Madrid

Address: P.º de Alcobendas, 10, 28109, Alcobendas, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Rehabilitation Medicine in Acquired Brain Injury Management



Nursing

### Policlínico HM Rosaleda Lalín

Country	City
Spain	Pontevedra

Address: Av. Buenos Aires, 102, 36500, Lalín, Pontevedra

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Advances in Hematology and Hemotherapy
- Neurological Physiotherapy



Nursing

### Policlínico HM Imi Toledo

Country	City
Spain	Toledo

Address: Av. de Irlanda, 21, 45005, Toledo

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

**Related internship programs:**

- Electrotherapy in Rehabilitation Medicine
- Hair Transplantation



### Clínica Virgen del Camino

Country	City
Spain	Madrid

Address: Paseo de las Delicias, 150, 28045 Madrid

Clínica Virgen del Camino, 45 years of health care

**Related internship programs:**

- Occupational Nursing
- Diagnosis in Physiotherapy



### Clínica ITYOS

Country	City
Spain	Madrid

Address: C. de Cidacos, 6, 28002, Madrid

Clínica ITYOS is an Advanced Medicine Institute

**Related internship programs**

- Trauma Nursing
- Advanced Aesthetic Medicine

09

# 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

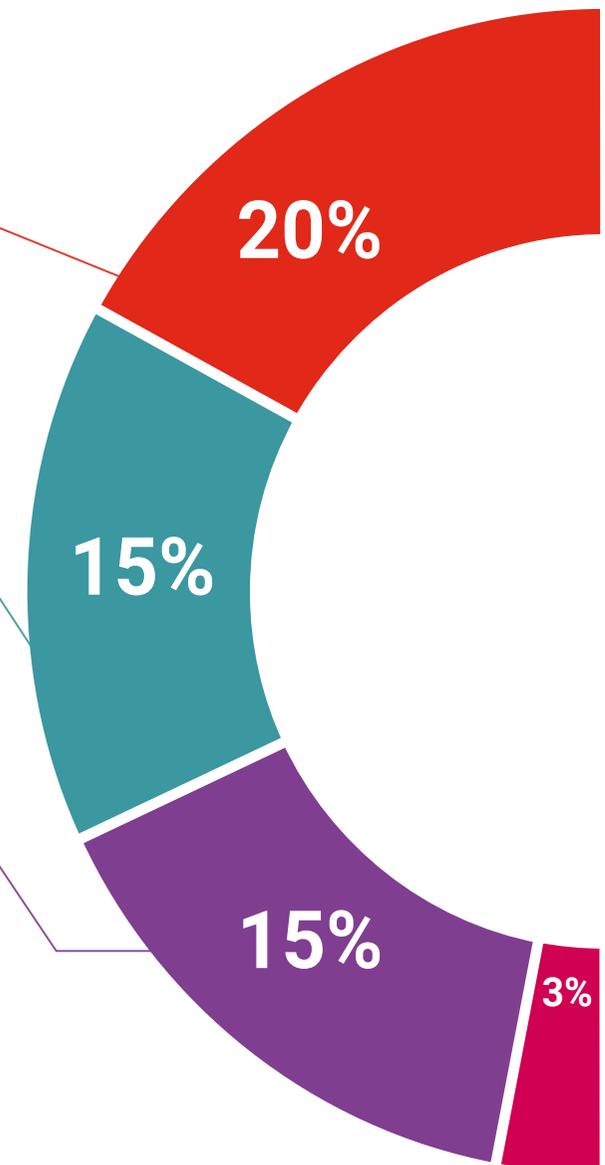
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

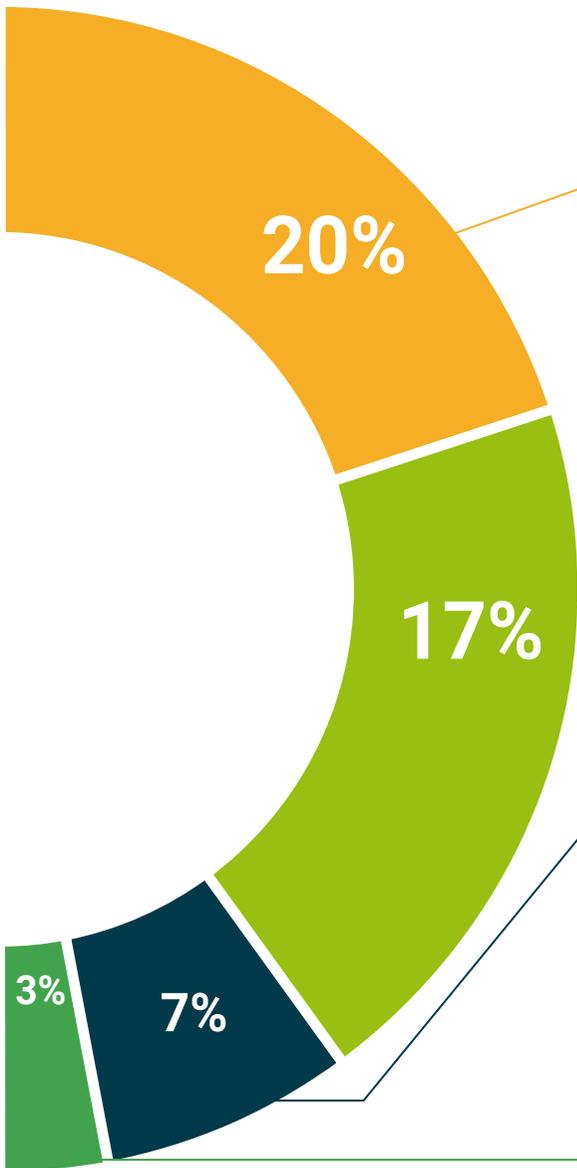
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### 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.



# 10 Certificate

The Hybrid Master's Degree in Trauma Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Hybrid Master's Degree 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 **Hybrid Master's Degree diploma in Trauma 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.

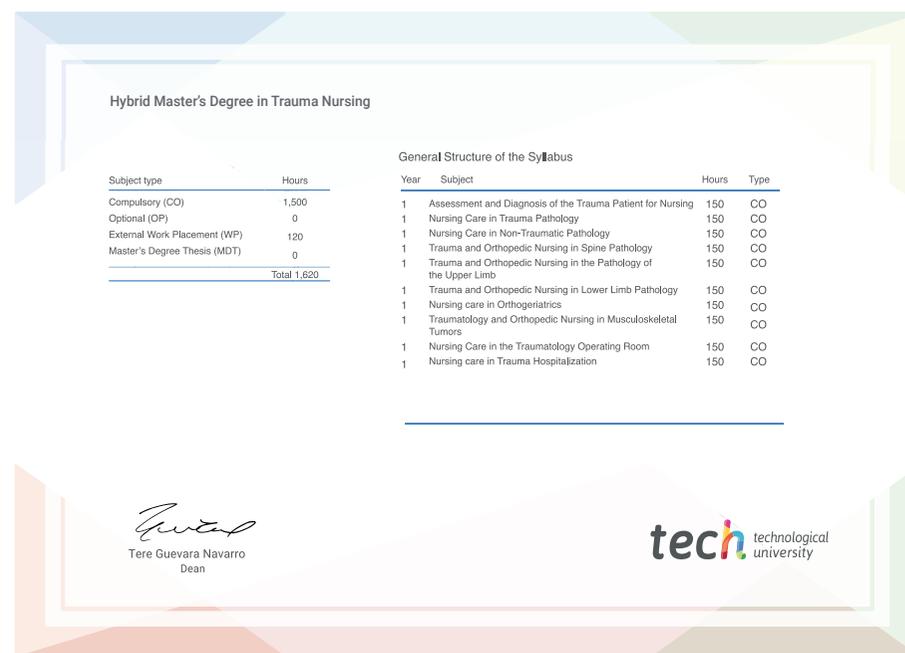
Title: **Hybrid Master's Degree in Trauma Nursing**

Course Modality: **Hybrid (Online + Clinical Internship)**

Duration: **12 months**

Certificate: **TECH Global University**

Recognition: **60 + 5 ECTS Credits**



\*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.



future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present quality  
development languages  
virtual classroom



**Hybrid Master's Degree**  
Trauma Nursing

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Global University

60 + 5 créditos ECTS

# Hybrid Master's Degree Trauma Nursing

