



## Postgraduate Diploma

Pediatric Trauma Emergencies for Nursing

» Modality: Online

» Duration: 6 months.

» Certificate: TECH Global University

» Accreditation: 17 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/enfermeria/experto-universitario/experto-urgencias-traumatologicas-pediatria-enfermeria

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The basic and advanced knowledge of invasive techniques in critically ill pediatric patients, as well as the techniques for treating unintentional traumatic injuries and pediatric accidents in pediatric emergency care, is crucial to prevent the development of sequelae in children. This program allows for the updating of procedures to provide individualized care in accordance with the needs of the patients and their families.



## tech 06 | Introduction

Nursing professionals working in pediatric emergency services must have, in addition to their general training, the necessary knowledge and skills for their daily practice with pediatric patients. It is essential that these skills are continually updated through tailored training programs.

Throughout the program, the most important aspects of urgent pediatric trauma emergencies are addressed, including the triage process based on severity, patient transport, and the need for specific techniques to manage the various life-threatening conditions in pediatric patients. These techniques include peripheral and central venous access, drug administration routes, airway management, intraosseous puncture, and the management of specific techniques for treating emergencies caused by household accidents that could compromise pediatric patient health.

The Postgraduate Diploma in Pediatric Trauma Emergencies for Nursing is designed to enable nursing professionals to incorporate the latest advancements in the field, as well as to review the most important aspects of pediatric emergency care and treatment.

Additionally, a renowned International Guest Director will offer detailed Masterclasses, providing nurses with advanced clinical competencies to deliver high-quality care to pediatric patients with traumatic emergencies.

This **Postgraduate Diploma in Pediatric Emergency Nursing for Nursing** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- Development of clinical cases presented by experts in the different specialties
- The graphical, schematic, and highly practical content is designed to provide scientific and healthcare information on the medical disciplines essential for professional practice
- Diagnostic and therapeutic novelties on child care. Includes pediatric nursing triage
- Specific sections in each module on nursing techniques and procedures according to the age of the child: pediatric transport, approach to pediatric cranioencephalic trauma, immobilizations, anaphylactic reactions, stings, bites, etc.
- Video lessons on the different pathologies and their management
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- Includes theoretical lectures, questions to the expert, discussion forums on controversial issues and individual reflection papers.
- Content that is accessible from any fixed or portable device with an Internet connection



A renowned International Guest Director will deliver exclusive Masterclasses, providing you with the most cutting-edge triage methodologies to classify the severity of injuries and prioritize patient care"



This Postgraduate Diploma is the best investment you can make when selecting a professional development program for two reasons: in addition to updating your knowledge in pediatric trauma emergencies for nursing, you will earn a certificate from TECH Global University.

Its teaching staff includes expert nurses and leading pediatricians, who bring their work experience to this program, in addition to other professionals who specialize in the different areas of care for children with osteoarticular injuries.

Thanks to its multimedia content, developed with the latest educational technology, professionals will benefit from situated and contextual learning—simulated environments designed to provide immersive learning experiences that prepare them for real-life situations.

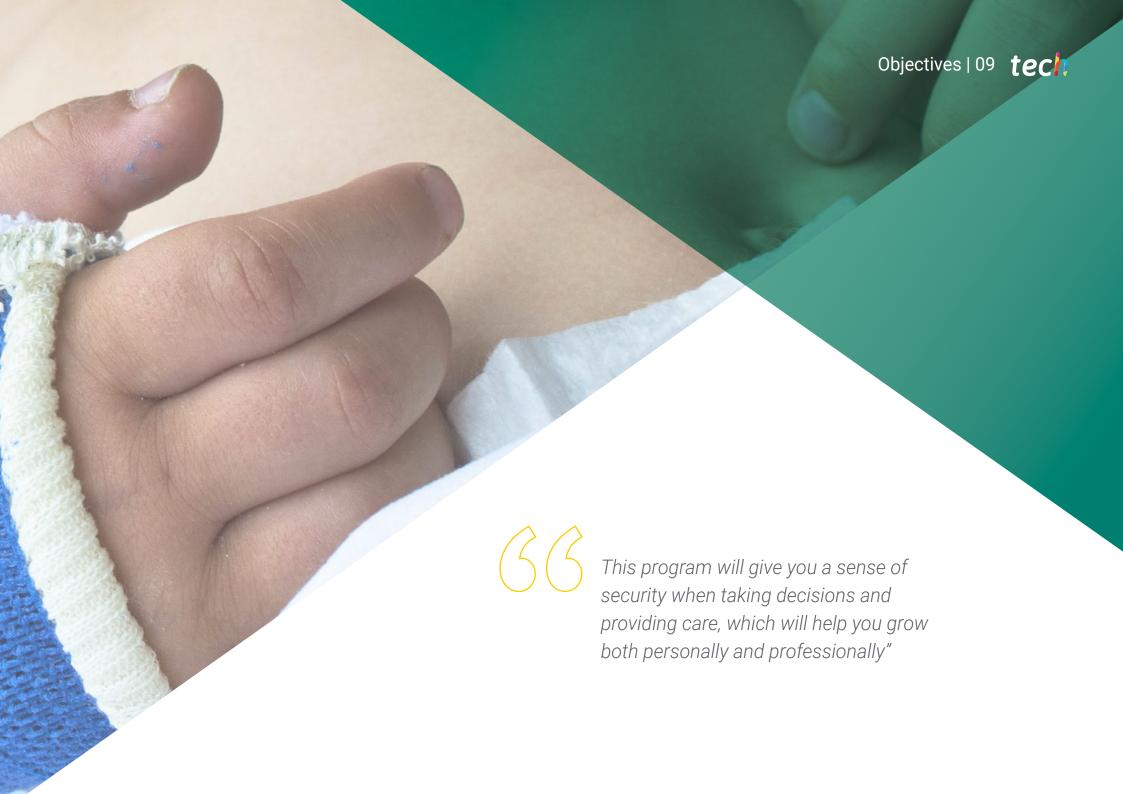
This program is designed around Problem-Based Learning, whereby nursing professionals must try to solve the different professional practice situations that arise throughout the program. For this purpose, it will be assisted by an innovative interactive video system developed by renowned experts in the care of children with musculoskeletal trauma, with extensive teaching experience.

It includes clinical cases in real simulation situations to bring the program as close to nursing practice as possible.

Don't miss the opportunity to update your knowledge in trauma emergencies in pediatric patients to increase the quality of your care.







## tech 10 | Objectives



## **General Objective**

 Update nursing professionals in the management of patients with emergency osteoarticular injuries, as well as the approach to the different types of trauma that may come to the pediatric emergency department, and prepare them in the management of patients with unintentional injuries, or victims of different types of pediatric accidents



Take the leap to get up-to-date on the latest developments in Pediatric Trauma Emergencies for Nursing"





### **Specific Objectives**

#### Module 1. Healthcare Organization in Pediatric Emergency Care

• Describe the procedures that nursing staff can carry out to resolve potentially dangerous situations safely

#### Module 2. Pediatric Trauma and Osteoarticular Injuries

- Identify the main osteoarticular injuries
- Review the joints most prone to injury
- Outline the priorities for evaluation and treatment in the traumatized child, as well as the specific characteristics of pediatric patients

#### Module 3. Unintentional Injuries. Childhood Accidents

- Define the main unintentional injuries
- Identify the injury and its possible treatment
- Develop a preventive guide for the most common injuries
- Indicate methods for managing and treating wounds and burns

#### Module 4. Invasive Techniques in Critically III Pediatric Patients

- Define a guide for first aid and treat patients as prudently as possible
- Conduct emergency medical examinations
- Identify the main invasive techniques







#### **International Guest Director**

Dr. Todd Florin is a recognized Pediatric Emergency Physician and clinical epidemiologist, expert in Lower Respiratory Tract Infections in children, especially in the field of Bronchiolitis and Pneumonia. In addition, at international level, he is a leader in the use of biomarkers and predictive analysis to improve the diagnosis and treatment of these conditions.

In this way, he has served as Director of Research in Emergency Medicine at the Ann & Robert H. Lurie Children's Hospital in Chicago. Moreover, at the same hospital, he has directed the Grainger Research Program in Pediatric Emergency Medicine, where he has led key projects, such as the CARPE DIEM study (Catalyzing Ambulatory Research in Pneumonia Etiology and Diagnostic Innovations in Emergency Medicine), a pioneering investigation of community-acquired Pneumonia, as well as other global studies, such as PERN, focused on understanding the severity of Pneumonia and the impact of COVID-19 in children.

Dr. Todd Florin has also received numerous awards for his outstanding medical and research work, including the Young Investigator Award from the *Academic Pediatric Association*, and has been recognized for his research leadership and mentorship at renowned institutions such as Cincinnati Children's Hospital Medical Center. His vision of combining translational science with clinical care has driven significant advances in the management of Pediatric Respiratory Infections.

In fact, his work has been endorsed by prestigious institutions such as the National Heart, Lung and Blood Institute and the National Institute of Allergy and Infectious Diseases. Likewise, his focus on Precision Medicine has transformed the way Respiratory Infections in children are managed, contributing to the reduction of unnecessary antibiotic use.



## Dr. Florin, Todd

- Director of Emergency Medicine Research, Ann & Robert H. Lurie Children's Hospital, Chicago, United States
- Chief of the Grainger Research Program in Pediatric Emergency Medicine at Ann & Robert H. Lurie Children's Hospital
- Assistant Physician, Division of Emergency Medicine, Ann & Robert H. Lurie Children's Hospital
- Principal Investigator of the Catalyzing Ambulatory Research in Pneumonia Etiology and Diagnostic Innovations in Emergency Medicine Study (CARPE DIEM)
- Director of Strategy and Operations at the Society for Pediatric Research
- Specialist in Pediatric Emergency Medicine at the Children's Hospital of Philadelphia
- Doctor of Medicine from the University of Rochester
- Master's Degree in Clinical Epidemiology by the the University of Pennsylvania

- B.A. in Music from the University of Rochester
- Young Investigator Award from the Academic Pediatric Association
- Member of: Academic Pediatric Association, American Academy of Pediatrics, Pediatric Infectious Diseases Society, Society for Academic Emergency Medicine, Society for Pediatric Research



Thanks to TECH, you will be able to learn with the best professionals in the world"

## tech 16 | Course Management

#### Management



#### Ms. Roldán del Amo, Adela

- Specialist Pediatric Nurse
- Pediatric Nurse in the Pediatric Hospitalization Unit at Vithas Nisa 9 de Octubre Hospital
- University Professor in the areas of Neonatal Nursing and Neonatal Intensive Care, First Aid, Cardiopulmonary Resuscitation and Emergency Situations.
- University Diploma in Nursing from the University School of Nursing Nuestra Señora de los Desamparados in Valencia.

#### **Teachers**

#### Ms. Alfaro Ramírez, Concepción

- Specialist Pediatric Nurse
- Nursing Supervisor of the Pediatrics Service of the Vithas Valencia 9 de Octubre Hospital
- University Professor in the "Diploma in Neonatal Nursing and Neonatal Intensive Care" at the CEU Cardenal Herrera University.
- Teacher in the Child Nutrition Course of the Nisa Hospitals Foundation.
- Diploma in Nursing from the University Catholic of Valencia

#### Ms. Antón García, Gema

- Nurse of the Obstetrics Service at the General University Hospital of Elche.
- Clinical practice tutor of Obstetrics at the General University Hospital of Elche.
- University Diploma in Nursing (DUE) at the University School of Nursing. Alicante, Spain
- Professional experience in childbirth and neonatology

#### Dr. López Ruiz, María Amparo

Pediatric medicine Doctor

- Area Supervisor in Health of Castilla y León (SACYL)
- Coordinator of Medicine at CEU Cardenal Herrera University.
- University Professor of Nursing, Medicine and Pharmacy, specifically in the areas of: Pediatric Emergencies, Neonatal Nursing, Intensive Care, First Aid, Cardiopulmonary Resuscitation and Emergency Situations, and Advanced Aesthetic and Laser Techniques
- Coordinator of Medicine in Erasmus Internships for Medicine and at CEU Cardenal Herrera University
- Personal Tutor for international students of Medicine at CEU Cardenal Herrera University
- Entrepreneurship tutor for Medicine at the University CEU Cardenal Herrera
- Nestlé Award for Best Oral Communication at the XXIV National Congress of the Spanish Society of Outpatient Pediatrics and Primary Care, held in Murcia, for the paper: Analysis of the use of Analgesic-Antipyretics in pediatric patients attending an emergency department"
- Doctor Cum Laude in Outstanding Medicine by the University CEU Cardenal Herrera with the Thesis: Analysis of medication use in pediatric population visiting an Emergency Department
- Bachelor's Degree in Medicine and Surgery from the University of Valencia
- Expert in Neonatology: Premature Newborn Care

#### Mr. Mora Rivero, Jorge

- Emergency Nurse Practitioner
- Emergency Nurse at the General University Hospital of Elche.
- University tutor for clinical training
- Professional teaching experience in University Masters and Postgraduate Courses

- Degree in Nursing from the University of Alicante
- Master's Degree in Nursing Sciences
- University Expert in Primary Care Emergencies
- Degree in Emergency Medical Transportation (SAMU)

#### Ms. Lospitao Gómez, Sara

- Intensive Care and Interventional Cardiology Nurse at Fuenlabrada University Hospital (HUF)
- Nurse of the Post-Surgical Intensive Care Unit (PICU) of Cardiac Surgery at the 12 de Octubre University Hospital (HUF)
- Coronary Intensive Care Unit Nurse at the Hospital Universitario de la Hospital Universitario 12 de Octubre
- Nurse of the Interventional Cardiology Unit (Hemodynamics, EEF and Implants).
- Responsible for the #TEAyudamos program at HUF and member of the #JuntosXElCáncer group.
- Instructor in Advanced Life Support by the National CPR Plan of the Spanish Society of Intensive Care Medicine, Critical Care and Coronary Units (SEMICyUC).
- Member of: Care Sub-Commission (HUF), Care Commission (HUF), Student Services of the Ulcers and Wounds Working Group (HUF).

#### Ms. Balboa Navarro, Ana

- Emergencies Service Nurse at the General University Hospital of Elche
- Teacher in academic institutions
- Instructor of Basic Life Support and Advanced Cardiovascular Life Support by the Spanish

## tech 18 | Course Management

Society of Emergency Medicine and American Heart Association (SEMES-AHA)

- Pediatric and Neonatal CPR Instructor for the Spanish Group of Pediatric and Neonatal CPR (GERCPPN).
- \* American Academy of Pediatrics and American College of Emergency Physicians
- Diploma in Nursing from the University of Alicante
- Master' Official in Nursing Sciences, University of Alicante





Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"







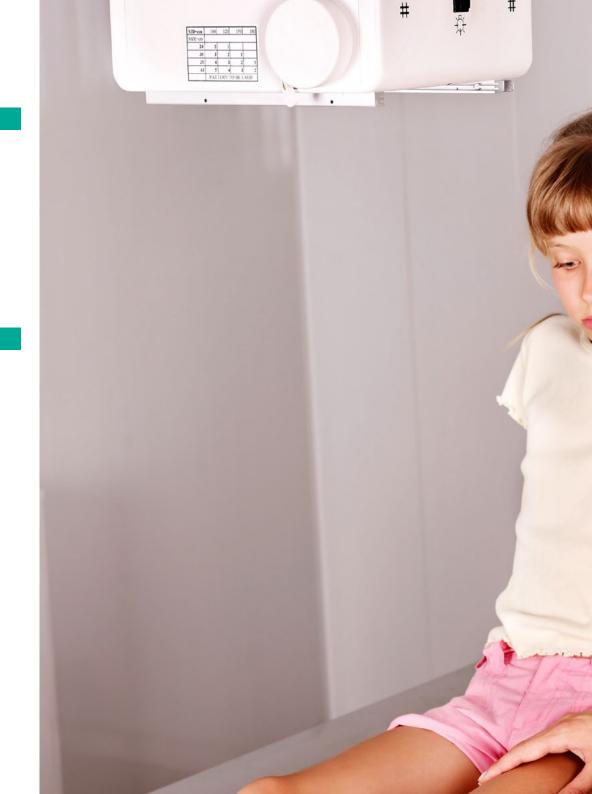
## tech 22 | Structure and Content

#### Module 1. Healthcare Organization in Pediatric Emergency Care

- 1.1. Equipment in the Pediatric Emergency Service (SUP)
  - 1.1.1. Differential Characteristics of SUP
  - 1.1.2. Infrastructure and Staffing
  - 1.1.3. Material
- 1.2. Triage in Pediatrics
  - 1.2.1. Definition
  - 1.2.2. Classification Systems
- 1.3. Transport of Critically III Pediatric PatientsIntra-hospital transport, extra-hospital transport, and ISOBAR
- 1.4. Neonatal and Pediatric Transport

#### Module 2. Pediatric Trauma and Osteoarticular Injuries

- 2.1. Initial Care for Pediatric Trauma
  - 2.1.1. Types and Patterns of Injury in Pediatrics
  - 2.1.2. Primary and Secondary Assessment
  - 2.1.3. Spinal Cord Injury
- 2.2. Head Trauma in Children
- 2.3. Trauma of Lower Limbs (LL)
- 2.4. Trauma of Upper Limbs (UL)
- 2.5. Thoracic Trauma. Contusions and Rib Fractures
- 2.6. Limping
  - 2.6.1. Types of Limping
  - 2.6.2. Treatment
  - 2.6.3. Referral Criteria
- 2.7. Classification of Pediatric Fractures
- 2.8. Mobilization and Immobilization Workshop
- 2.9. Active Mobilization Stimulation
- 2.10. Hyperpronation
- 2.11. Supination-Flexion
- 2.12. Subluxation of the Radial Head







- 3.1. Wounds
- 3.2. Burns
- 3.3. Drowning
- 3.4. Stings and Bites
- 3.5. Poisoning (Medications and Non-Medications)
- 3.6. Anaphylaxis
  - 3.6.1. Severity Classification
  - 3.6.2. Diagnostic Procedures
  - 3.6.3. Treatment and Discharge Recommendations
- 3.7. Foreign Body Removal from the Ear
- 3.8. Foreign Body Removal from the Nose
- 3.9. Release of Trapped Penis or Scrotum
- 3.10. Reduction of Incarcerated Inguinal Hernia
- 3.11. Reduction of Paraphimosis

#### Module 4. Invasive Techniques in Critically III Pediatric Patients

- 4.1. Peripheral and Central Venous Access
  - 4.1.1. Peripheral Access
  - 4.1.2. Central Access
- 1.2. Intraosseous Access
- 4.3. Capnography. Pulse Oximetry
- 4.4. Oxygen Therapy
- 4.5. Analgesia and Sedation
  - 4.5.1. Pain Management
  - 4.5.2. Procedure
  - 4.5.3. Reference Medications in Analgesia and Sedation
- 4.6. Protocol for Infant Death
- 4.7. Rapid Sequence Intubation





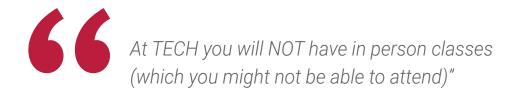


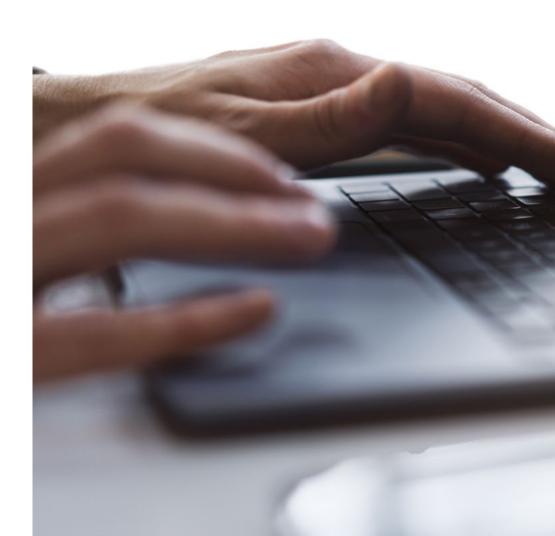
#### The student: the priority of all TECH programs

In TECH's study methodology, the student is the absolute protagonist.

The pedagogical tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is the student who chooses the time they spend studying, how they decide to establish their routines and all this from the comfort of the electronic device of their choice. The student will not have to attend live classes, which many times they cannot attend. The learning activities will be done when it is convenient for them. You will always be able to decide when and from where to study.









#### The most comprehensive academic programs worldwide

TECH is distinguished by offering the most complete academic pathways within the higher education landscape. This level of comprehensiveness is achieved through the development of curricula that not only encompass essential knowledge but also integrate the latest innovations in each area of study.

By being constantly updated, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive preparation that provides them with a notable competitive advantage to advance in their careers.

And what's more, they will be able to do so from any device, PC, tablet or smartphone.



TECH's model is asynchronous, so it allows you to study with your PC, tablet or smartphone wherever you want, whenever you want and for as long as you want"

## tech 28 | Study Methodology

#### Case Studies or Case Method

The case method has been the learning system most used by the best business schools in the world. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to solve them. In 1924 it was established as a standard teaching method at Harvard.

With this teaching model, it is the student who builds their professional competence through strategies such as Learning by Doing or Design Thinking, which are used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, argue and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



#### Relearning Method

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, they are able to review and reiterate the key concepts of each subject and learn to apply them in a real environment.

Along the same lines, and according to multiple scientific researches, repetition is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

Relearning will allow you to learn with less effort and more performance, involving you more in your specialization, developing a critical spirit, defending arguments and contrasting opinions: a direct equation to success.





#### A 100% online Virtual Campus with the best teaching resources

To apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on reiteration, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neurosciences points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus for long-term retention. This is a model called Neurocognitive Context-Dependent E-Learning that is consciously applied in this university program.

Furthermore, in order to maximize tutor-student contact, a wide range of communication possibilities are provided, both in real time and deferred (internal messaging, discussion forums, telephone answering service, e-mail contact with the technical secretary, chat and videoconferencing).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, in accordance with their accelerated professional updating.



The online mode of study of this program will allow you to organize your time and your learning pace, adapting it to your schedule"

#### The effectiveness of the method is justified by four fundamental achievements:

- 1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
- 2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
- 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.

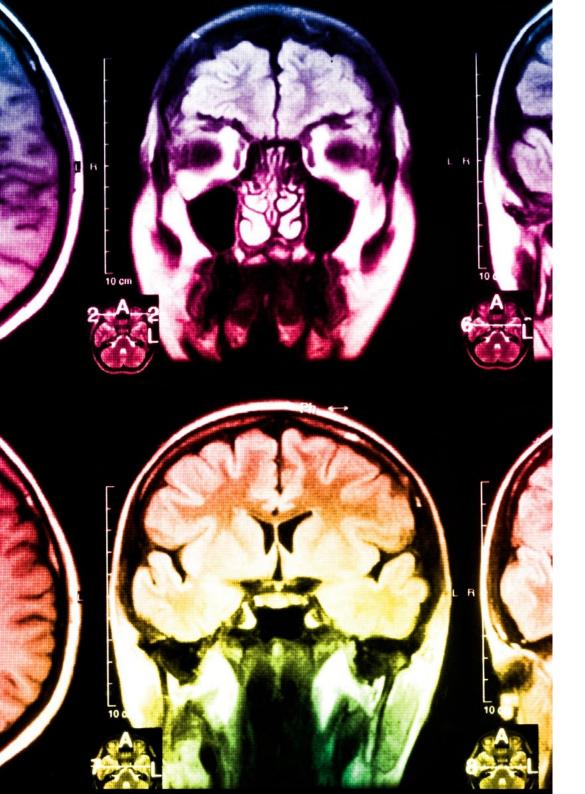


The results of this innovative academic model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution has become the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is up to date with the technological and pedagogical vanguard.

You will be able to learn with the advantages of access to simulated learning environments and the learning by observation approach, that is, the "Learning from an Expert" approach.



## tech 32 | Study Methodology

Therefore, the best educational materials, thoroughly prepared, will be available in this program:



#### **Study Material**

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



#### **Practicing Skills and Abilities**

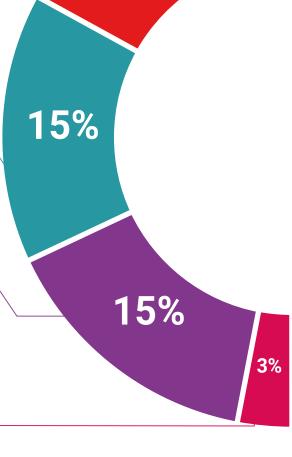
You will carry out activities to develop specific skills and abilities in each thematic area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the context of the globalization in which we live.



#### **Interactive Summaries**

We present the contents in an attractive and dynamic way in multimedia pills that include audio, videos, images, diagrams and concept maps in order to reinforce knowledge.

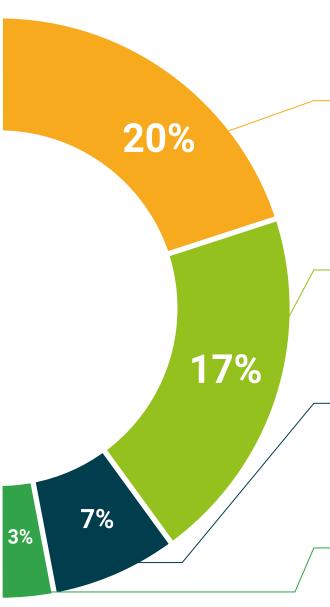
This unique educational system for the presentation of multimedia content was awarded by Microsoft as "Successful Case in Europe."





#### **Additional Reading**

Recent articles, consensus documents, international guidelines... In our virtual library you will have access to everything you need to complete your course.



#### **Case Studies**

You will complete a selection of the best case studies in the field. Cases presented, analyzed and tutored by the best specialists in the world.



#### **Testing & Retesting**

We periodically evaluate and re-evaluate your knowledge throughout the program.

We do this on 3 of the 4 levels of Miller's Pyramid.



#### **Masterclasses**

There is scientific evidence suggesting that observing third-party experts can be useful.



Learning from an expert strengthens knowledge and recall, and generates confidence in our 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.







## tech 30 | Diploma

This private qualification will allow you to obtain a diploma for the **Postgraduate Diploma in Pediatric Trauma Emergencies 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 private qualification from **TECH Global University** is a European continuing education and professional development program that guarantees the acquisition of competencies in its area of expertise, providing significant curricular value to the student who successfully completes the program.

Title: Postgraduate Diploma in Pediatric Trauma Emergencies for Nursing

Modality: online

Duration: 6 months.

Accreditation: 17 ECTS



#### Experto Universitario en Urgencias Traumatológicas en Pediatría para Enfermería

Se trata de un título propio de 510 horas de duración equivalente a 17 ECTS, con fecha de inicio dd/mm/aaaa y fecha de finalización dd/mm/aaaa.

TECH Global University es una universidad reconocida oficialmente por el Gobierno de Andorra el 31 de enero de 2024, que pertenece al Espacio Europeo de Educación Superior (EEES).

En Andorra la Vella, a 28 de febrero de 2024



<sup>\*</sup>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.

salud confianza personas
salud confianza personas
educación información tutores
garantía acreditación enseñanza
instituciones tecnología aprendizaj
comunidad compromiso



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