



Monitoring and Advanced Life Support in the Pediatric and Pregnant Patient

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-monitoring-advanced-life-support-pediatric-pregnant-patient

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tech 06 | Introduction

In today's medical landscape, caring for pediatric and pregnant patients in critical situations requires specialized skills and knowledge. The complexity of these cases underscores the need for a differentiated and precise approach to Advanced Life Support and Monitoring. In this context, a program that focuses exclusively on this population arises, providing healthcare professionals with the opportunity to obtain detailed and specialized knowledge. This Postgraduate Diploma directly responds to the growing demand for experts qualified to deal with critical situations in pediatric and pregnant patients, highlighting the importance of specific qualification in this field.

Within the syllabus, physicians will analyze crucial issues such as renal function and homeostasis, going in depth into the interpretation of results and the implementation of specific strategies. Peripartum arrhythmias will also be addressed, assessing their impact and considering the implications of technification in Life Support techniques. In addition, the analysis of CPR indications and the understanding of non-CPR orders will be essential elements in the program, providing specialists with the necessary tools to make informed and strategic decisions in critical scenarios.

This program, designed for professionals with busy schedules, is delivered 100% online. Likewise, the *Relearning*methodology, based on the repetition of key concepts to consolidate knowledge, will ensure effective and long-lasting learning. With access to varied multimedia content and the flexibility to study at their own pace, graduates will acquire specialized skills and be prepared to face unique clinical challenges in Monitoring and Advanced Life Support in pediatric and pregnant patients.

This Postgraduate Diploma in Monitoring and Advanced Life Support in the Pediatric and Pregnant Patient contains the most complete and up-to-date scientific program on the market. The most important features include:

- Practice cases presented by experts in Monitoring and Advanced Life Support in the Pediatric and Pregnant Patient
- The graphic, schematic, and practical contents which provide scientific and practical information on the disciplines that are essential for professional practice
- Practical exercises where the self-assessment process can be carried out to improve learning
- Its special emphasis on innovative methodologies
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection



6 months of stimulating learning that will take you to the next level in the intensive care of pediatric and pregnant patients"



Get ready to overcome the challenges ahead and open your way to new opportunities with this exclusive university program from TFCH"

The program's teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

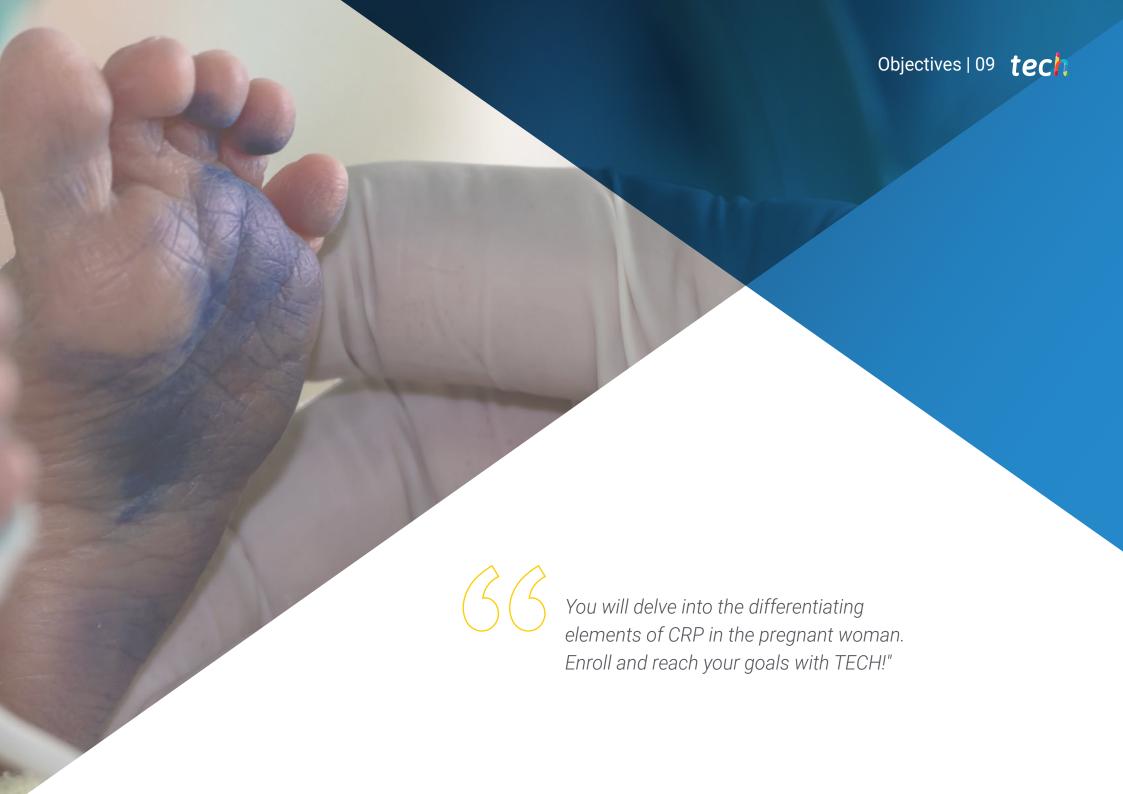
Interactive summaries of each topic will allow you to consolidate in a more dynamic way the concepts on the impact of echocardiography in this field.

Do not miss the opportunity to boost your career through this innovative program with the TECH seal of quality.





The objectives of this innovative university program converge in the integral updating of health professionals in the field of Intensive Care Medicine. The program focuses on providing graduates with the skills and knowledge necessary to effectively address critical situations in pediatric and pregnant patients. The main objective is to perfect clinical competencies, delving into Monitoring and Advanced Life Support, ensuring that professionals are equipped with the most updated tools and strategies to provide optimal and specialized care to these specific populations.



tech 10 | Objectives



General Objectives

- Analyze the pathophysiological bases that establish the foundations of monitoring in the critically ill patient
- Examine the impact of monitoring in the critically ill patient on mortality and morbidity
- Develop the principles and indications of monitoring
- Establish the conceptual basis of monitoring
- Develop the concept of Cardiorespiratory Arrest (CRA) and the concept of Cardiopulmonary Resuscitation (CPR)
- Analyze the concept of life support: Basic and advanced
- Determine the pathophysiological bases that condition CPR
- Establish the levels of scientific evidence in relation to the actions to be taken in CPR patients
- Analyze decision making from the ethical profile in CPR



You will update your knowledge on the basis of Life Support measures through innovative multimedia content"





Specific Objectives

Module 1. Advanced Life Support in the Pregnant Woman

- Analyze the elements that are part of BLS and ALS
- Examine the elements that form part of the specific measures of action
- Analyze and develop the necessary elements for the implementation of a specific care team for pregnant patients with CRP
- Analyze the technical and human resources required for the overall care of the pregnant patient in CRP

Module 2. Advanced Pediatric and Neonatal Life Support

- Develop the concept of pediatric and neonatal CRP
- Establish the differences in the origin of CRA
- Analyze the main triggers of pediatric and neonatal CRA
- Determine the basis of life support measures

Module 3. Health Care Ethics in the Critical Care Patient

- Analyze facts and values
- Determine the limitation of life-sustaining treatment
- Perform analysis of CPR indications and non-CPR order
- Analyze the refusal of treatment
- Study the basis of informed consent
- Analyze the system of advance directives
- Assess the role of relatives during CPR







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Management



Dr. Antonio Cardenas Cruz

- Head of the Intensive Care Medicine Department, Motril Hospital
- Director of the Clinical Unit of Critical Care and Emergency Management of the Poniente University Hospita
- Institute Director of Continuing Education of the Andalusian Society of Intensive Care Medicine and Coronary Universities
- Training Program Director for Life Support Trainers of the IAVANTE Line of the Progreso y Salud Foundation of the Consejería de Salud y Consumo de la Junta de Andalucía (Andalusian Regional Government)
- Training Program Director for Sedation the IAVANTE Line of the Progreso y Salud Foundation of the Consejería de Salud y Consumo de la Junta de Andalucía (Andalusian Regional Government)
- Head of Critical Care and Emergency Department, Hospital Universitario de Poniente
- Professor of Medicine
- Degree in Medicine and Surgery from the UGR
- PhD in Medicine and Surgery, UGR
- Specialist in Intensive Care Medicine

Professors

Dr. Estella García, Ángel

- Specialist in Intensive Care Medicine
- Head of the Intensive Care Medicine Section at the University Hospital of Jerez
- President of the Health Care Ethics Committee of Jerez
- Professional Master's Degree in Bioethics, Complutense University of Madrid
- Professional Master's Degree in Infectious Diseases of the Critically III from the University of Valencia
- Coordinator of the Working Group on Infectious Diseases, Andalusian Society of Intensive Care Medicine and Coronary Units

Dr. Rodríguez Fernández de Simón, Teresa

- Intensive Care Medicine Physician at the Virgen de las Nieves University Hospital
- Specialist in Internal Medicine at the Virgen de las Nieves University Hospital
- Speaker at the Clinical Course on Basic and Advanced CPR
- Degree in Medicine from the Autonomous University of Barcelona
- Course on Severe Trauma Care organized by ICU HUVN
- · Course on Optimization of Antimicrobials in Critically III Patients
- Course CiMir2 of the Spanish Society of Intensive Care Medicine, Critical Care and Coronary Units
- Ventilung Course
- Course on Fundamentals in Limitation of Life Support Treatment and the Donation Process in Encephalic Death and Asystole

Dr. Pérez Manrique, Rosa María

- Medical Specialist in Intensive Care Medicine
- Advanced Life Support Instructor
- Resident Intern in Intensive Care Medicine at the Reina Sofia University Hospital in Cordoba
- Ph.D. in Clinical Medicine and Public Health from the University of Granada
- Degree in Medicine from the University of Córdoba
- Postgraduate Certificate in Nursing from the University of Cordoba
- Member of: European Society of Intensive Care, Spanish Society of Intensive Care Medicine and Coronary Units, Andalusian Society of Intensive Care Medicine and Coronary Units

Dr. Del Campo Molina, Emilio

- Doctor
- Head of ICU and Emergency Department at Montilla Hospital
- Assistant ICU Physician at the Cabra Hospital
- 8 National Awards in Humanization of Health Care Projects
- Winner of the Best In Class Award, in the category of "Best National Emergency"
- Graduate in Medicine from the University of Córdoba
- Member of: Hospital Commission of Cardiopulmonary Resuscitation at the Hospital of Montilla, Commission of the Southern Area in Humanization and Working Group of ACVA and Provincial SCA

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Dr. Robles Arista, Juan Carlos

- Head of Intensive Care Unit Section at the Reina Sofia University Hospital
- Transplant Coordinator, Reina Sofia University Hospital of Spain
- Doctorate from the Faculty of Medicine at the University of Granada.
- Degree in Medicine and Surgery from the Faculty of Medicine of Granada.
- Degree from the Faculty of Medicine of the University of Granada.

Dr. Rivera Rubiales, Gloria

- Specialist in Intensive Care Medicine at the University Hospital of Jerez
- Intensive Care Physician in the Intensive Care Unit at the Virgen del Rocío University Hospital.
- Professional Master's Degree in Clinical Ultrasound for Emergency and Critical Care by CEU Cardenal Herrera University.
- Official Master's Degree in Biomedical Research from the University of Seville.
- Official Master's Degree in Biomedical Research from the Institute of Biomedicine of Seville.
- International Expert in Methodology Applied to noninvasive mechanical ventilation.

Dr. Matallana Zapata, Diego Fernando

- Specialist in Intensive Care Medicine at the University Hospital Ciudad de Jaén.
- Primary Care Physician in Outpatient, Emergency and Hospitalization.
- Primary Care Physician in Emergencies and assistant in the operating room.
- Professional Master's Degree in Clinical Ultrasound by the International University of Andalusia.
- Professional Master's Degree in Research, Innovation and Quality of Life, University of Jaén.
- Author of Critical Ultrasound in shock, what every physician should know.





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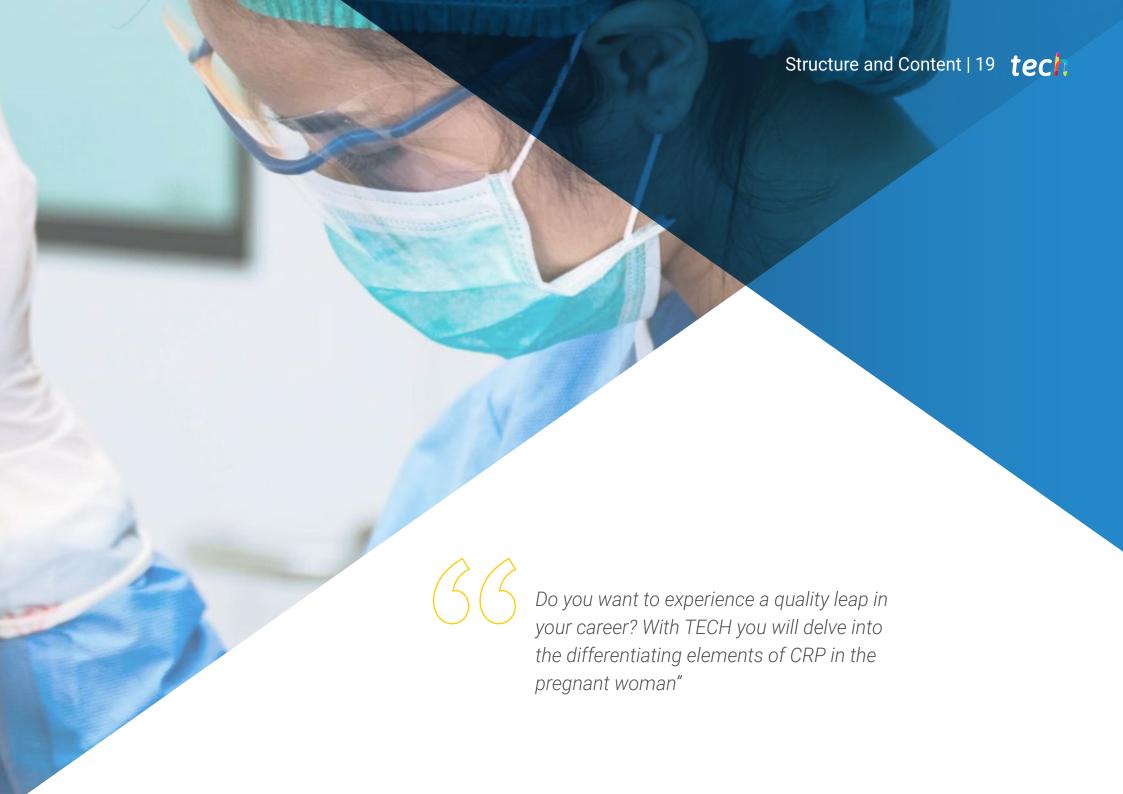
Mr. Bracero Jiménez, Antonio

- Nurse in the Intensive Care Unit at Reina Sofía University Hospital, Córdoba.
- Specialist in Critical Patient Transport
- Coordinator and Teacher of modules in the Professional Master's Degree in Emergency Nursing and Emergencies.
- Professional Master's Degree in Emergency Nursing, Catastrophes and Humanitarian Aid from the University of Seville.
- University Diploma in Nursing at the University of Cordoba



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





tech 20 | Structure and Content

Module 1. Advanced Life Support in the Pregnant Woman

- 1.1. Advanced Life Support in Pregnant Women: International Standardization
 - 1.1.1. Advanced Life Support in Pregnant Wom
 - 1.1.2. Physiology
 - 1.1.3. Pathophysiology
- 1.2. Epidemiology
 - 1.2.1. Epidemiological Analysis of CRP in Pregnant Women
 - 1.2.2. Prediction Scales
 - 1.2.3. Prognosis Scales
- 1.3. Life Support (LS) in the Pregnant Woman. Identification of Cardiorespiratory Arrest (CRA)
 - 1.3.1. Identification of CRA in the Pregnant Woman
 - 1.3.2. SV Techniques
 - 1.3.3. Airway Obstruction in the Pregnant Woman
- 1.4. VAS in the Pregnant Woman. Specific Control Techniques
 - 1.4.1. Specific Techniques for Airway Control and Ventilation
 - 1.4.2. Circulation Control Techniques
 - 1.4.3. Arrhythmia Control
- 1.5. Differentiating Elements of CRP in Pregnant Women
 - 1.5.1. CRA Due to Defibrillable Rhythms
 - 1.5.2. CRA Due to Non-defibrillable Rhythms
 - 1.5.3. Identification of Reversible Causes of CRA
- 1.6. Special Actions
 - 1.6.1. Surgical Control
 - 1.6.2. Use of REBOA
 - 1.6.3. ECMO-CPR
- 1.7. Advanced Life Support Equipment (ALS). Technical and Human Resources
 - 1.7.1. ALS Equipment
 - 1.7.2. Perimortem Caesarean Section Team
 - 1.7.3. Technical Resources





Structure and Content | 21 tech

- 1.8. Perimortem Cesarean Section
 - 1.8.1. Perimortem Cesarean Section
 - 1.8.2. Indications
 - 1.8.3. Technical Aspects and Timing
- 1.9. International Medical-Legal Aspects
 - 1.9.1. International Medical-Legal Aspects
 - 1.9.2. Ethical Aspects
 - 1.9.3. International Legal Framework
- 1.10. Organization of Technical and Human Resources
 - 1.10.1. Distribution of Technical Resources
 - 1.10.2. Distribution of Human Resources
 - 1.10.3. Overall Action Protocol

Module 2. Advanced Pediatric and Neonatal Life Support

- 2.1. Pediatric Cardiopulmonary Resuscitation (CPR)
 - 2.1.1. Pediatric Cardiopulmonary Resuscitation (CPR)
 - 2.1.2. Physiology
 - 2.1.3. Pathophysiology and Epidemiology
- 2.2. Prevention of CRP in the Pediatric and Neonatal Patient
 - 2.2.1. Analysis of Prevention Systems
 - 2.2.2. The Chain of Survival
 - 2.2.3. Standardization of Severity and Prediction Scales
- 2.3. Assessment and Care of the Child at Risk for CRA
 - 2.3.1. Airway and Ventilation
 - 2.3.2. Circulation and Neurological
 - 2.3.3. Severity Scales
- 2.4. CPR Monitoring in Pediatrics
 - 2.4.1. Identification of CPR
 - 2.4.2. Airway Replacement and Ventilation
 - 2.4.3. Circulation Replacement
- 2.5. Airway and Ventilation
 - 2.5.1. Advanced Airway
 - 2.5.2. Advanced Ventilation
 - 2.5.3. Technological Devices for Airway Control and Ventilation

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- 2.6. Vascular Accesses, Drugs, and Fluids Used in Pediatric CPR
 - 2.6.1. Vascular Access and Alternatives in Pediatrics
 - 2.6.2. Applied Pharmacology
 - 2.6.3. Fluid Therapy
- 2.7. Monitoring and Treatment of Arrhythmias in Pediatrics
 - 2.7.1. Diagnosis of Arrhythmias
 - 2.7.2. Actions for the Main Arrhythmias
 - 2.7.3. Action Protocols
- 2.8. Management of Advanced CPR in Pediatrics
 - 2.8.1. Diagnosis
 - 2.8.2. Action Protocols
 - 3.8.3. Automated CPR and ECMO CPR
- 2.9. Post Resuscitation Care
 - 2.9.1. Corrosion Control
 - 2.9.2. Circulation Control
 - 2.9.3. Temperature and Internal Environment Control
- 2.10. Neonatal Stabilization and Resuscitation
 - 2.10.1. Differences in Neonatal CPR
 - 2.10.2. Airway / Ventilation and Circulation
 - 2.10.3. Specific Action Protocols

Module 3. Health Care Ethics in the Critical Care Patient

- 3.1. Health Care Ethics in the Critical Care Patient
 - 3.1.1. Health Care Ethics
 - 3.1.2. Research Ethics
 - 3.1.3. Ethics Committees
- 3.2. Bioethics Clinical Use
 - 3.2.1. Ethics and Morality
 - 3.2.2. Bioethical Principles
 - 3.2.3. Clinical Use





Structure and Content | 23 tech

3.3.	Dental	care	for	AIDS	patient

- 3.3.1. HIV Infection. AIDS Triggering
- 3.3.2. Lesiones principales asociadas al SIDA
- 3.3.3. Dental management of the patient with AIDS
- 3.3.4. Clinical Cases

3.4. Facts and Values

- 3.4.1. Good Clinical Practice
- 3.4.2. Incorporation of Values into Clinical Practice
- 3.4.3. Study of the Quality of the Ethics of Actions
- 3.5. Limitation of Life-Sustaining Treatment
 - 3.5.1. Basis for Establishing the Limitation of Life-Sustaining Treatment
 - 3.5.2. Classification
 - 3.5.3. Practical Development
- 3.6. Indications for CPR and Do-Not-Resuscitate Order
 - 3.6.1. Scientific Basis, Ethical Basis and Legal Basis
 - 3.6.2. Operationalization
 - 3.6.3. Involvement of Health Care Ethics Committees in Decision Making
- 3.7. Interruption of CPR Maneuvers
 - 3.7.1. Indications
 - 3.7.2. Scientific Basis
 - 3.7.3. Ethical Aspects
- 3.8. Treatment Limitation in Post-CPR Care
 - 3.8.1. Conceptual Basis
 - 3.8.2. Scientific Basis
 - 3.8.3. Ethical Basis
- 3.9. Refusal of Treatment
 - 3.9.1. Legal Basis
 - 3.9.2. Ethical Basis
 - 3.9.3. Incorporation into Daily Clinical Practice
- 3.10. Informed Consent and Living Will
 - 3.10.1. Informed Consent and Living Will
 - 3.10.2. Legal Basis
 - 3.10.3. Ethical Framework





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At TECH we use the Case Method

What should a professional do in a given situation? 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. Specialists learn better, faster, and more sustainably over time.

With TECH you will experience a way of learning 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, trying to recreate the real conditions in the physician's professional 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:

- Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate 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.





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 the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.



Methodology | 29 tech

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, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. 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 highly 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.



Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and 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 the videos as many times as you like.



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 on the usefulness of learning by observing experts.

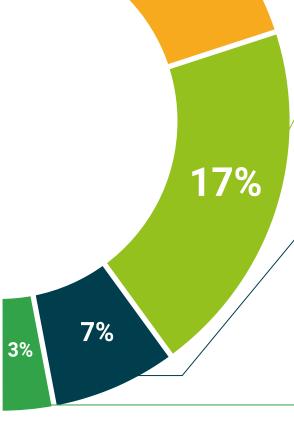
The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



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.









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This Postgraduate Diploma in Monitoring and Advanced Life Support in the Pediatric and Pregnant Patient contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Diploma** issued by **TECH Technological University** via tracked delivery*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: Postgraduate Diploma in Monitoring and Advanced Life Support in the Pediatric and Pregnant Patient

Official No of Hours: 450 h.



^{*}Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.



Postgraduate Diploma

Monitoring and Advanced Life Support in the Pediatric and Pregnant Patient

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

