



# Postgraduate Diploma

# Emergencies in Natural Childbirth for Midwives

» Modality: online

» Duration: 6 months

» Certificate: TECH Global University

» Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-emergencies-natural-childbirth-midwives

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# tech 06 | Introduction

Shoulder dystocia, the need to perform resuscitation on the newborn or to address respiratory problems are some of the major emergencies that can arise in natural childbirth and postpartum. At this juncture, the collaboration of multidisciplinary medical teams is crucial to ensure the safe birth or optimal health of the baby during its first hours of life. Therefore, midwives are required to be familiar with the state-of-the-art care and procedures required for the care of these emergency situations, in order to improve their healthcare practice and position themselves at the forefront of their profession.

This is why TECH has opted to carry out this Postgraduate Diploma, which enables the student to delve into the latest scientific evidence on the management of emergencies in natural childbirth. During 150 hours of intensive teaching, students will learn the state-of-the-art protocols for the care of complicated childbirth or identify the techniques that allow them to provide emotional support to the mother throughout the process. Likewise, you will detect the up-to-date care required for the child with persistent pulmonary hypertension and the strategies to control the health status of the premature newborn.

All this, following a modern 100% online methodology, which allows professionals to complete their update without the need to make uncomfortable daily travels to a study center. Likewise, they will have at their disposal excellent teaching content in a variety of textual and multimedia formats, including readings, explanatory videos and evaluative exercises. As a result, they will enjoy a fully enjoyable and individualized learning experience.

This **Postgraduate Diploma in Emergencies in Natural Childbirth for Midwives** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of practical cases presented by experts in Natural Childbirth and Neonatology
- The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- Practical exercises where self-assessment can be used to improve learning
- Its special emphasis on innovative methodologies
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection



Through this program, you will learn stateof-the-art methods to optimize the care of shoulder dystocia during childbirth"



Environmental protection is one of the main challenges facing the water sector. With the knowledge you will acquire in this program, you will propel your career towards change"

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

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

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

Enhance your knowledge and become an expert engineer in hydraulic infrastructures.

Learn how to sustainably manage water catchment and water resources to contribute to the progress of humanity.





In just 6 months, you will gain a range of knowledge that will position you at the forefront of Emergencies in Natural Childbirth for Midwives"

# tech 10 | Objectives



# **General Objectives**

- Acquire fundamental knowledge about the physiology of Natural Childbirth, ancestral cultural practices and the emotional needs of women during childbirth, as well as the implications of medical interventions
- Acquire essential skills and knowledge in the care of pregnant women and their fetuses, including the promotion of healthy pregnancies and the identification of possible complications
- Acquire fundamental knowledge and skills in the diagnosis, management and prevention of emergencies in childbirth, with a focus on interprofessional collaboration and advocacy for patients' rights
- Acquire fundamental knowledge and skills in the assessment, diagnosis, and management of neonatal emergencies, with a focus on early recognition of problems and application of appropriate interventions
- Focus on fundamental knowledge about the neuroscience of pregnancy, motherhood and perinatal care, as well as the scientific evidence related to Natural Childbirth and evidence-based care practices
- Acquire fundamental knowledge about home labor and birth, including team
  management and organization, preparation and accompaniment during pregnancy,
  labor and puerperium, and identification and management of special situations and
  home obstetric emergencies
- Acquire fundamental knowledge about Natural Childbirth units, such as birthing homes
  and hospital units, and develop skills to assess, plan and manage these environments,
  ensuring a high level of care and satisfaction for women and their families

- Acquire fundamental knowledge and practical skills in newborn care, as well as the ability to provide comprehensive and safe care at this critical stage of life and how to collaborate with other healthcare professionals and families to ensure the wellbeing of the newborn
- Acquire knowledge of the physical and emotional needs of the mother in the perinatal period
- Develop skills to provide comprehensive support and care for the mother during the postpartum period, including difficult and emotionally intense situations
- Promote prevention and care of maternal mental health in the perinatal period, including the detection and treatment of mood disorders and the management of obstetric trauma and obstetric violence
- Analyze the stages of labor and pain management and relaxation techniques
- Develop skills in the development and monitoring of individualized birth plans
- Examine the importance of interdisciplinary collaboration in childbirth care
- Encourage emotional preparation and support for women and their families during the birthing process
- Acquire skills in identifying and managing high-risk situations during pregnancy and childbirth





# **Specific Objectives**

# Module 1. Natural Childbirth

- Analyze the science and evolution of Natural Childbirth, and how current medical practices compare to historical and global statistics
- Examine the physiology of normal childbirth in the human species, including the hormonal cocktail, postures, and female sexuality
- Analyze childbirth practices in ancestral cultures and their relevance today
- Identify and address the emotional needs of women during childbirth and how professionals can support them
- Take an in-depth analysis of the role of Oxytocin in Natural Childbirth and the differences between endogenous and exogenous Oxytocin
- Examine current pandemics related to childbirth and their impact on the health of women and newborns
- Delve into the needs of the newborn during and after childbirth, including gut and epidermal flora, the umbilical cord, and placental blood
- Analyze interventionism in childbirth and how it affects the environment and safety in childbirth, as well as the importance of respecting the nature of the process

# tech 12 | Objectives

# Module 2. Childbirth Emergencies

- Identify signs and symptoms in rupture of membranes, diagnose and manage its impact on labor and postpartum
- Analyze in depth the reasons, methods, risks and benefits of induced labor, as well as its monitoring and follow-up
- Examine in depth the causes, risk factors, effects and interventions in prolonged labor, and how to prevent and plan for these cases
- Identify risk factors, recognize and diagnose shoulder dystocia, apply maneuvers and resolution techniques, and manage its complications and follow-up
- Analyze in depth indications, types of instruments, procedures and techniques in instrumental delivery, as well as their risks, benefits, and considerations
- Identify indications and types of cesarean sections, analyze the process and recovery and address risks, benefits, and planning for elective cesarean sections
- Assess and monitor complicated deliveries, apply interventions and manage pain, work as a team, and provide emotional and psychological support
- Understand the patient in complicated labor, including the right to information, consent, privacy, decision making, and dignified treatment
- Develop effective communication skills in complicated childbirth, including active listening, empathy, clear and assertive communication, and conflict management and negotiation
- Delve into the process of informed consent and shared decision making in complicated childbirth, including documentation and recording of consent





# Module 3. Newborn Emergencies

- Perform an initial assessment of the newborn, including Apgar score and identification of risk factors
- Analyze basic and advanced Neonatal Resuscitation techniques, such as bag-valvemask ventilation, cardiac massage, endotracheal intubation and drug administration
- Delve into common respiratory conditions in newborns, such as Transient Tachypnea, Respiratory Distress Syndrome and Meconium Aspiration
- Identify Neonatal Hypoglycemia, including Capillary Glycemia measurement and long term follow-up
- Assess neonatal jaundice, applying treatments such as phototherapy and exchange transfusion
- Recognize neonatal infections, including sepsis and meningitis, and apply prophylaxis and prevention measures
- Examine cardiovascular emergencies in the newborn, such as neonatal shock, congestive heart failure and patent ductus arteriosus
- Manage the care of the preterm newborn, focusing on initial stabilization, nutrition and prevention of long-term complications
- Develop skills in team preparation and teamwork, effective communication between professionals, and follow-up and referral to specialized services in neonatal emergencies



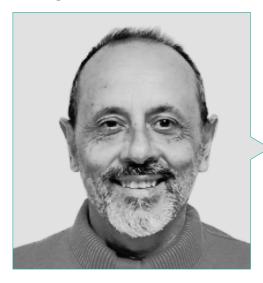
Achieve the goals TECH has outlined for this program and enjoy your long-awaited development in the healthcare field"





# tech 16 | Objectives

# Management



# Dr. Santos Leal, Emilio

- Medical Director of the International Medical Technology Center
- Specialist Doctor at Alcorcón Foundation University Hospita
- Medical specialist at Consorcio University General Hospital of Valencia
- Medical specialist at Pius Hospital de Valls
- Medical specialist at Perpetuo Socorro Clinic
- Specialty in Gynecology and Obstetrics by San Carlos Clinical Hospital
- Degree in Medicine and Surgery from the University of Cantabria



# Course Management | 17 tech

### **Professors**

# Dr. Espinosa Barrajón, José Ángel

- Director of the Affective Childbirth Unit at the Hospital San Francisco de Asís
- Head of the Obstetrics and General Gynecology Team at Hospital San Francisco de Asís
- Specialist in Gynecology and Obstetrics at Clínica de la Concepción
- Master's Degree in Minimally Invasive Surgery in Gynecology from the Universidad Cardenal Herrera
- Degree in Medicine and Surgery from the Universidad Autónoma de Madrid

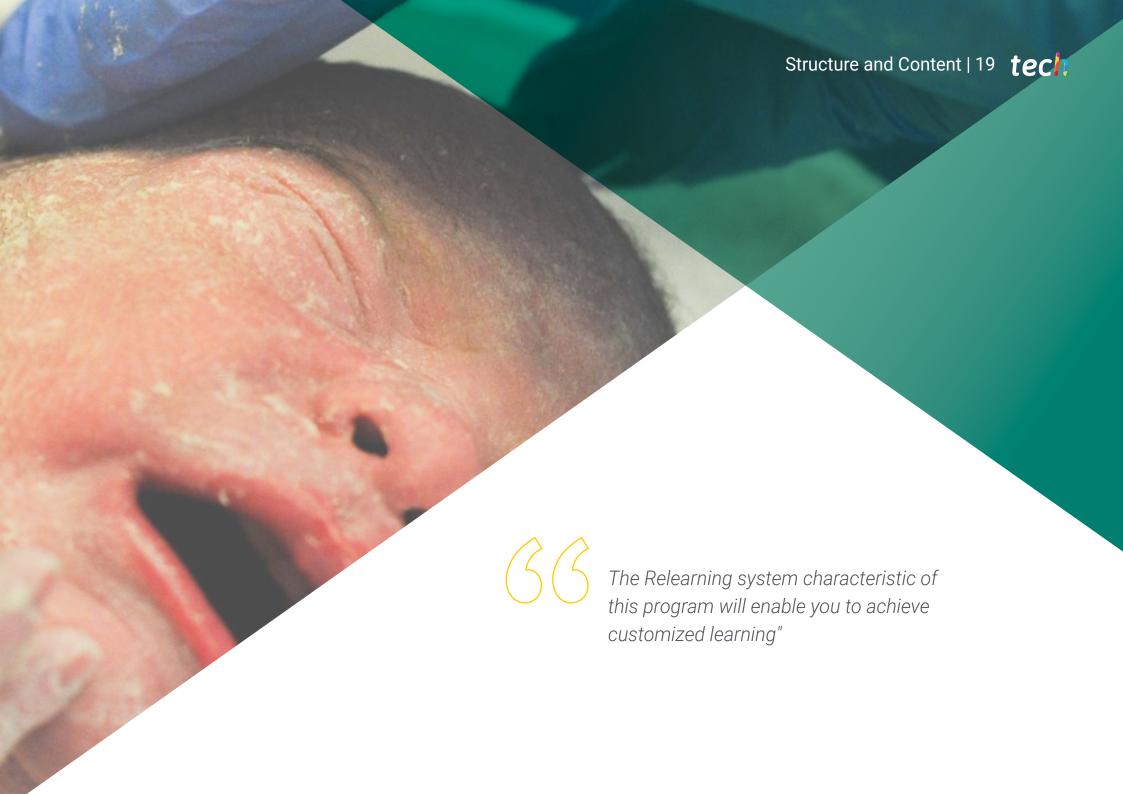
### Ms. García García, María Dolores

- Midwife in Specialized Care at the Hospital General Universitario de Valencia
- Master's Degree in Business Management from the Universidad Católica San Antonio de Murcia
- Master's Degree in Bioethics from the Universidad Católica San Antonio de Murcia
- Expert in Breastfeeding Advice and Consultancy, Universidad Católica de Ávila
- Degree in Nursing, specializing in Midwifery

# Ms. Lanza del Rivero, Cristina

- Field Psychologist at Casa de la Salud
- Postgraduate in Theory and Practice of Psychodrama, Sociodrama and Sociometry at the Universidad de Salamanca
- Postgraduate in Theory and Practice of Group Analysis at the Universidad de Salamanca
- Master's Degree in Behavior Modification from the Universidad de Salamanca
- Degree in Psychology from the Universidad de Salamanca





# tech 20 | Structure and Content

# Module 1. Natural Childbirth

- 1.1. Natural Childbirth
  - 1.1.1. Science versus Dogma
  - 1.1.2. Evolution as a Species
  - 1.1.3. Statistics in the World: Oxytocin, Analgesia, Episiotomies, Caesarean Sections
  - 1.1.4. Improving Statistics
- 1.2. Normal Childbirth in the Human Species
  - 1.2.1. Hormone Cocktail in Normal Childbirth
  - 1.2.2. Positions in Normal Childbirth
  - 1.2.3. Female Sexuality
  - 1.2.4. Physiology of Sexual Intercourse
- 1.3. Childbirth in Ancestral Cultures
  - 1.3. 1 Childbirth among the Taínos, Guanajatabeyes and Siboneyes
  - 1.3.2. Childbirth before the Sumerians
  - 1.3.3. Orgasmic Childbirth
  - 1.3.4. Michel Odent
- 1.4. Emotional Needs of Laboring Women
  - 1.4.1. Empowerment
  - 1.4.2. Privacy
  - 1.4.3. Delivery
  - 1.4.4. Majesty
- 1.5. Needs of the Professional Attending Laboring Women
  - 1.5.1. Secrecy
  - 1.5.2. Professional Attitude Towards Pain
  - 1.5.3. Respect for the Majesty of the Moment
  - 1.5.4. Priviledge
- 1.6. The Reasons for Emotional Needs
  - 1.6.1. Comfort
  - 1.6.2. Privacy
  - 1.6.3. Connection with the most Primal
  - 1.6.4. Connection with the most Spiritual

- 1.7. Oxytocin
  - 1.7.1. The Hemato-Placental Barrier
  - 1.7.2. The Blood-Brain Barrier
  - 1.7.3. Endogenous Oxytocin
  - 1.7.4. Exogenous Oxytocin
- 1.8. Current Pandemics
  - 1.8.1. The Cesarean Pandemic
  - 1.8.2. The Immunological Disorders Pandemic
  - 1.8.3. The Autism Pandemic
  - 1.8.4. The Hyperactivity and Attention Deficit Pandemic
- .9. Newborn Needs
  - 1.9.1. Intestinal Flora
  - 1.9.2. Skin Flora
  - 1.9.3. The Umbilical Cord
  - 1.9.4. Placental Blood
- 1.10. Interventionism
  - 1.10.1. Amending Nature
  - 1.10.2. Intervening Calls for Intervention
  - 1.10.3. The Chain of Interventionism
  - 1.10.4. Environment and Safety in Childbirth

# Module 2. Childbirth Emergencies

- 2.1. Premature Rupture of Membranes
  - 2.1.1. Signs and Symptoms
  - 2.1.2. Risk Factors
  - 2.1.3. Diagnosis and Management
  - 2.1.4. Impact on Labor and Postpartum
- 2.2. Induced Labor
  - 2.2.1. Reasons for Induction
  - 2.2.2. Methods of Induction
  - 2.2.3. Risks and Benefits
  - 2.2.4. Monitoring and Follow-Up

# Structure and Content | 21 tech

2.3.	Prol	longed	Labor

- 2.3.1. Causes and Risk Factors
- 2.3.2. Effects on Mother and Baby
- 2.3.3. Interventions and Management
- 2.3.4. Prevention and Planning

### 2.4. Shoulder Dystocia

- 2.4.1. Risk Factors and Prevention
- 2.4.2. Recognition and Diagnosis
- 2.4.3. Maneuvers and Resolution Techniques
- 2.4.4. Complications and Follow-up

### 2.5. Instrumental Delivery

- 2.5.1. Indications and Types of Instruments
- 2.5.2. Procedures and Techniques
- 2.5.3. Risks and Benefits
- 2.5.4. Ethical Considerations

### 2.6 Cesarean Section

- 2.6.1. Indications and Types of Cesarean Section
- 2.6.2. Process and Recovery
- 2.6.3. Risks and Benefits
- 2.6.4. Elective Cesarean Sections and Planning

### 2.7. Complicated Labor and Delivery Care

- 2.7.1. Assessment and Monitoring
- 2.7.2. Pain Interventions and Management
- 2.7.3. Teamwork and Staff Roles
- 2.7.4. Emotional and psychological support

### 2.8. Patient in Complicated Labor and Delivery

- 2.8.1. Information and Consent
- 2.8.2. Privacy and Confidentiality
- 2.8.3. Decision Making and Participation
- 2.8.4. Respect and Dignified Treatment

- 2.9. Effective Communication in Complicated Childbirth
  - 2.9.1. Active Listening and Empathy
  - 2.9.2. Clear and Assertive Communication
  - 2.9.3. Conflict Management and Negotiation
  - 2.9.4. Communication Tools for Professionals and Patients
- 2.10. Informed Consent and Decision Making in Complicated Labor and Delivery
  - 2.10.1. Adequate and Understandable Information
  - 2.10.2. Risks, Benefits and Alternatives
  - 2.10.3. Shared Decision-Making Process
  - 2.10.4. Documentation and Recording of Consent

# Module 3. Newborn Emergencies

- 3.1. Initial Assessment of the Newborn
  - 3.1.1. Apgar Score
  - 3.1.2. Vital Signs and Physical Examination
  - 3.1.3. Identification of Risk Factors
  - 3.1.4. Immediate Stabilization
- 3.2. Basic Neonatal Resuscitation
  - 3.2.1. Positioning and Airway Patency
  - 3.2.2. Bag-Valve-Mask Ventilation
  - 3.2.3. Cardiac Massage
  - 3.2.4. Monitoring and Adjustment of Resuscitation
- 3.3. Advanced Neonatal Resuscitation
  - 3.3.1. Endotracheal Intubation
  - 3.3.2. Medication Administration
  - 3.3.3. Umbilical Vascular Access
  - 3.3.4. Defibrillation and Advanced Techniques
- 3.4. Newborn Respiratory Difficulties
  - 3.4.1. Transient Tachypnea of the Newborn
  - 3.4.2. Respiratory Distress Syndrome
  - 3.4.3. Meconium Aspiration
  - 3.4.4. Persistent Pulmonary Hypertension

# tech 22 | Structure and Content

- 3.5. Neonatal Hypoglycemia
  - 3.5.1. Risk Factors and Symptoms
  - 3.5.2. Capillary Blood Glucose Measurement
  - 3.5.3. Treatment and Prevention
  - 3.5.4. Long-Term Monitoring and Follow-Up
- 3.6. Neonatal Jaundice
  - 3.6.1. Etiology and Pathophysiology
  - 3.6.2. Clinical Assessment and Diagnosis
  - 3.6.3. Treatment: Phototherapy and Exchange Transfusion
  - 3.6.4. Prevention and Follow-Up
- 3.7. Neonatal Infections
  - 3.7.1. Early-Onset and Late-Onset Sepsis
  - 3.7.2. Neonatal Meningitis
  - 3.7.3. Prophylaxis and Antibiotic Treatment
  - 3.7.4. Immunization and Infection Prevention
- 3.8. Newborn Cardiovascular Emergencies
  - 3.8.1. Neonatal Shock
  - 3.8.2. Congestive Heart Failure
  - 3.8.3. Patent Ductus Arteriosus
- 3.9. Care Procedure of a Premature Newborn
  - 3.9.1. Initial Stabilization and Respiratory Care
  - 3.9.2. Nutrition and Growth
  - 3.9.3. Prevention of Long-Term Complications
- 3.10. Protocols and Organization in the Care of Neonatal Emergencies
  - 3.10.1. Preparation and Teamwork
  - 3.10.2. Effective Communication between Professionals
  - 3.10.3. Follow-Up and Referral to Specialized Services





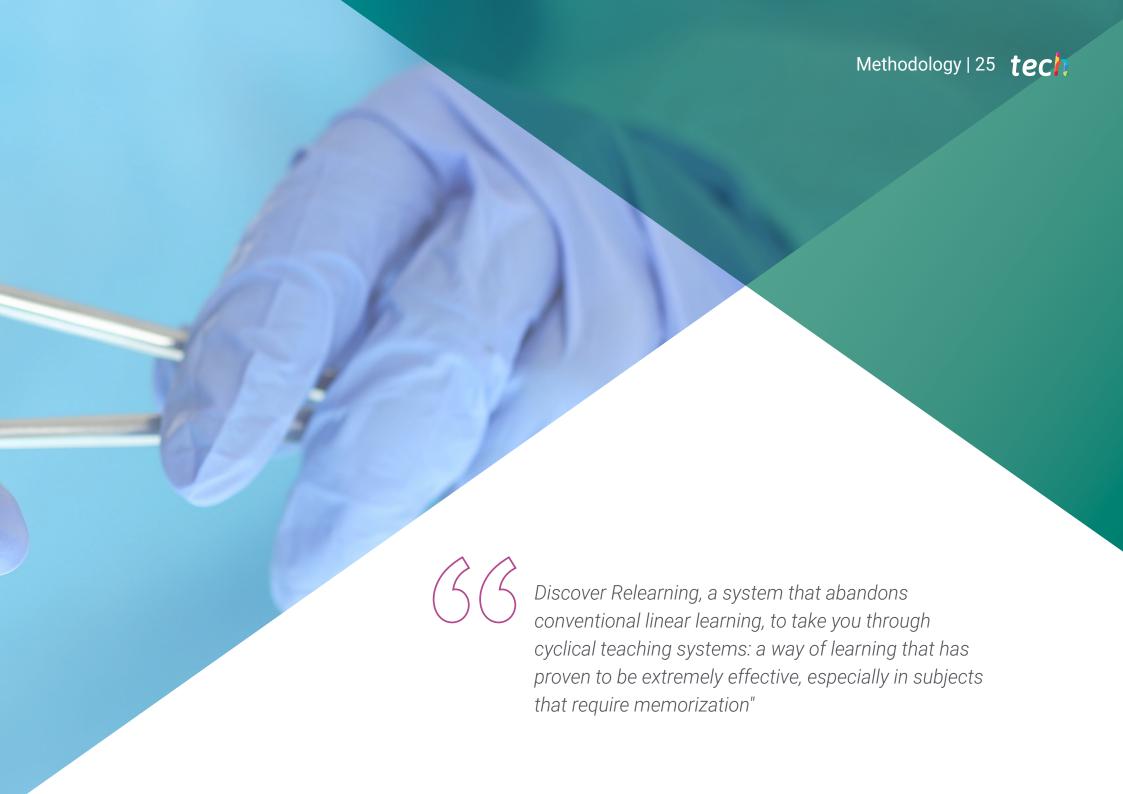


Take this Postgraduate Diploma and enjoy the most up-to-date knowledge of the pedagogical field on Emergencies in Natural Childbirth for Midwives"



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.

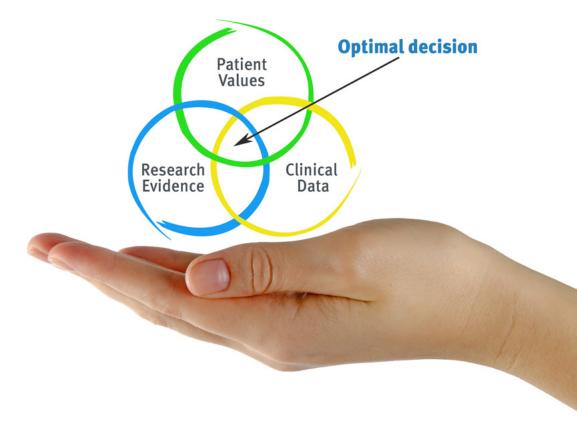


# tech 26 | Methodology

# 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:

- 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.



# 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 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**

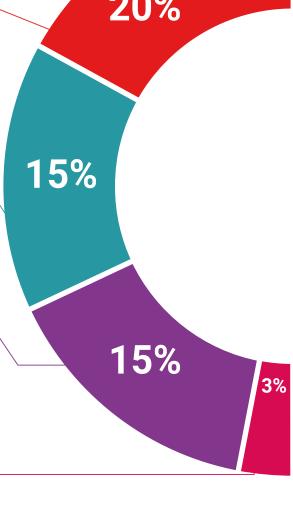
We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch them as many times as you 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.



# **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



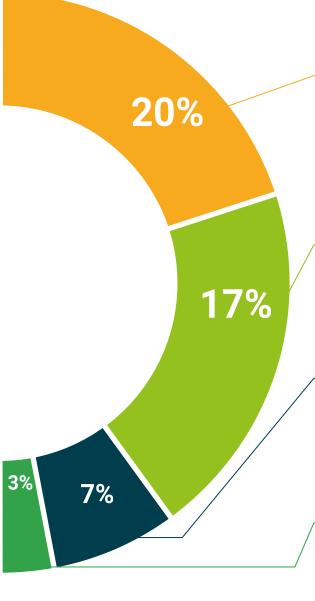
There is scientific evidence suggesting that observing third-party experts can be useful.

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.







# tech 34 | Certificate

This program will allow you to obtain your **Postgraduate Diploma in Emergencies in Natural Childbirth for Midwives** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

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

Title: Postgraduate Diploma in Emergencies in Natural Childbirth for Midwives

Modality: online

Duration: 6 months

Credits: 6 ECTS



Mr./Ms. \_\_\_\_\_, with identification document \_\_\_\_\_ has successfully passed and obtained the title of:

### Postgraduate Diploma in Emergencies in Natural Childbirth for Midwives

This is a program of 450 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 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.

health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning



# Postgraduate Diploma

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