

# Postgraduate Diploma

## Emergencies in Natural Childbirth



## Postgraduate Diploma Emergencies in Natural Childbirth

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

Website: [www.techitute.com/pk/medicine/postgraduate-diploma/postgraduate-diploma-emergencies-natural-childbirth](http://www.techitute.com/pk/medicine/postgraduate-diploma/postgraduate-diploma-emergencies-natural-childbirth)



# Index

01

Introduction

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*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 14*

04

Structure and Content

---

*p. 18*

05

Methodology

---

*p. 24*

06

Certificate

---

*p. 32*

# 01

# Introduction

Natural childbirth is a unique experience for women, but it can involve a series of risks that must be handled effectively to preserve the well-being of pregnant women and their little ones. In this regard, cutting-edge procedures have been developed to improve the management of emergencies, allowing healthcare professionals to optimize their response to crisis situations while ensuring the integrity of both the mother and the baby. Therefore, understanding these state-of-the-art protocols is essential for all specialists who wish to update their clinical practice. This way TECH has created this qualification, which enables students to learn about recent techniques for basic neonatal resuscitation or the management of a ruptured bag, all in an online format without set schedules.



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*With this Postgraduate Diploma, learn the most cutting-edge techniques for addressing shoulder dystocia or managing pain in complex deliveries”*

In recent years, natural childbirth has become an increasingly adopted trend among women as they seek to bring their children into the world with full awareness. However, the risks of this choice remain quite high, leading to the refinement of techniques used in managing shoulder dystocia or highly complicated deliveries. Thanks to these advances, it is possible to ensure the full physical integrity of both the mother and the fetus. Therefore, specialists aiming to stay at the forefront of medical knowledge are obliged to have a deep understanding of these advancements.

For this reason, TECH has designed this program, which will provide doctors with the most up-to-date and relevant knowledge regarding the management of Natural Birth Emergencies. Throughout this academic journey, they will be able to identify cutting-edge interventions that need to be performed during prolonged labor or strategies to address the management of pain in complex cases. It will also delve into sophisticated procedures for dealing with respiratory difficulties in newborns.

This program offers 100% online methodology, students will be able to manage their own study time as they wish in order to achieve optimized learning. Furthermore, they will have excellent educational materials available in various formats, including additional readings, explanatory videos, and interactive summaries. As a result, professionals will acquire an engaging and fully compatible update with their daily responsibilities.

This **Postgraduate Diploma in Emergencies in Natural Childbirth** 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 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



*Thanks to this program, you will identify cutting-edge procedures for treating respiratory difficulties in newborns"*

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*Become a leading professional in the field of Natural Birth Emergencies in just 6 months of updating"*

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 academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*Study from anywhere and without set schedules thanks to the online format offered by this Postgraduate Diploma.*

*By earning this qualification, you will identify the latest techniques in basic neonatal resuscitation.*



# 02 Objectives

The design of this Postgraduate Diploma has been carried out with the premise of providing specialists with an excellent update in the management of Natural Birth Emergencies. Through this program, you will discover advanced techniques for monitoring complex deliveries or delve into the latest scientific guidelines for performing necessary cesarean sections. All of this in just 6 months, while enjoying the most convenient study options in the educational market.





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*Do you want to incorporate cutting-edge strategies for addressing Natural Birth Emergencies into your daily practice? This qualification has been designed for you!"*



## General Objectives

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- ♦ Acquire fundamental knowledge about the physiology of Natural Childbirth, ancient cultural practices, and the emotional needs of women during childbirth, as well as the implications of medical interventions
- ♦ Acquire essential skills and knowledge for the care of pregnant women and their fetuses, including promoting healthy pregnancies and identifying potential complications
- ♦ Acquire fundamental knowledge and skills in the diagnosis, management, and prevention of childbirth emergencies, with a focus on interprofessional collaboration and patient rights advocacy
- ♦ Acquire fundamental knowledge and skills in the assessment, diagnosis, and management of neonatal emergencies, with an emphasis on early problem recognition and the application of appropriate interventions
- ♦ Emphasize 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 births, including team management and organization, pregnancy, childbirth, and postpartum preparation and support, as well as the identification and management of special situations and home obstetric emergencies
- ♦ Acquire fundamental knowledge about Natural Childbirth units, such as birthing centers 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 in this critical stage of life and collaborate with other health professionals and families to ensure the well-being of the newborn
- ♦ Acquire knowledge about the physical and emotional needs of the mother during the perinatal period
- ♦ Develop skills to provide emotional support and comprehensive care to the mother during the postpartum period, including difficult and emotionally intense situations
- ♦ Promote the prevention and care of maternal mental health during the perinatal period, including the detection and treatment of mood disorders and addressing obstetric trauma and obstetric violence
- ♦ Analyze the stages of labor and pain management and relaxation techniques
- ♦ Develop skills in creating and monitoring personalized birth plans
- ♦ Examine the importance of interdisciplinary collaboration in childbirth care
- ♦ Promote emotional preparation and support for women and their families during the childbirth process
- ♦ Acquire skills to identify and manage high-risk situations in pregnancy and childbirth



## Specific Objectives

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### 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, positions, and female sexuality
- ♦ Analyze childbirth practices in ancestral cultures and their relevance in the present
- ♦ Identify and address the emotional needs of women during childbirth and how professionals can support them
- ♦ Thoroughly analyze 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 intestinal and epidermal flora, the umbilical cord, and placental blood
- ♦ Analyze the intervention in childbirth and how it affects the environment and safety, as well as the importance of respecting the nature of the process

## Module 2. Delivery Emergencies

- ♦ Identify signs and symptoms of ruptured membranes, diagnose and manage their impact on labor and postpartum
- ♦ Thoroughly analyze 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 such cases
- ♦ Identify risk factors, recognize and diagnose shoulder dystocia, apply resolution maneuvers and techniques, and manage their complications and follow-up
- ♦ Thoroughly analyze 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 the planning of elective cesareans
- ♦ Evaluate and monitor complicated deliveries, apply interventions, manage pain, work as a team, and provide emotional and psychological support
- ♦ Understand the patient in complicated deliveries, including the right to information, consent, privacy, decision-making, and dignified treatment
- ♦ Develop effective communication skills in complicated deliveries, including active listening, empathy, clear and assertive communication, conflict management, and negotiation
- ♦ Delve into the process of informed consent and shared decision-making in complicated deliveries, including documentation and consent recording





### Module 3. Newborn Emergencies

- ♦ Perform an initial assessment of the newborn, including the Apgar score assessment and the identification of risk factors
- ♦ Analyze basic and advanced Neonatal Resuscitation techniques, such as bag-mask ventilation, chest compressions, endotracheal intubation, and medication administration
- ♦ Deepen knowledge about common respiratory conditions in newborns, such as Transient Tachypnea, Respiratory Distress Syndrome, and Meconium Aspiration
- ♦ Identify Neonatal Hypoglycemia, including capillary blood glucose measurement and long-term follow-up
- ♦ Evaluate neonatal jaundice, applying treatments like phototherapy and exchange transfusion
- ♦ Recognize neonatal infections, including sepsis and meningitis, and apply prophylactic and preventive measures
- ♦ Examine cardiovascular emergencies in the newborn, such as neonatal shock, congestive heart failure, and patent ductus arteriosus
- ♦ Manage the care of premature newborns, focusing on initial stabilization, nutrition, and prevention of long-term complications
- ♦ Develop knowledge in preparation and teamwork, effective communication among professionals, and follow-up and referral to specialized services in neonatal emergencies

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*The teaching materials of this program, elaborated by these specialists, have contents that are completely applicable to your professional experiences”*

03

# Course Management

With the aim of providing the highest academic level to its qualifications, this TECH program is directed and taught by top specialists in Neonatology, who have a long history of working in prestigious healthcare centers. These professionals are responsible for creating all the educational materials included in the Postgraduate Diploma. As a result, the knowledge that students will receive will be highly applicable in their daily practice.



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*This Postgraduate Diploma is directed and taught by top-level specialists in the field of Neonatology, who have decades of professional experience”*

## Management



### Dr. Santos Leal, Emilio

- Medical Director of the International Medical Technology Center
- Specialist Doctor at Fundación Alcorcón University Hospital
- Doctor Specialist at the General University Hospital Consortium of Valencia
- Specialist at Pius Hospital in Valls
- Medical Specialist at Perpetuo Socorro Clinic
- Specialization in Gynecology and Obstetrics from San Carlos Clinical Hospital
- Graduate in Medicine and Surgery from the University of Cantabria



## Professors

### Dr. García Báez, Miguel

- ♦ Medical Specialist in Pediatrics and Neonatology
- ♦ Pediatrician at Virgen de La Salud Hospital in Toledo
- ♦ Pediatrician at University Hospital of the Canaries
- ♦ Pediatrician at University Hospital of La Candelaria
- ♦ Degree in Medicine and Surgery from the University of Zaragoza
- ♦ Postgraduate Certificate in Medical Biostatistics from the Autonomous University of Barcelona
- ♦ Master's Degree in Homeopathy from the University of Seville

# 04

## Structure and Content

The syllabus of this qualification has been developed with the aim of providing students with the most advanced and up-to-date knowledge in the field of managing Emergencies in Natural Childbirth. The program is divided into three comprehensive modules, each offering a wide range of educational materials in various formats, including readings, explanatory videos, and interactive summaries. As a result, professionals will receive a highly engaging and individualized learning experience, thanks to a 100% online methodology.





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*The syllabus of this program has been designed by excellent experts in Neonatology, who will provide you with the most cutting-edge educational resources in this field”*

## Module 1. Natural Childbirth

- 1.1. Natural Childbirth
  - 1.1.1. Science versus dogma
  - 1.1.2. Evolution as a species
  - 1.1.3. Worldwide statistics: oxytocin, analgesia, episiotomies, cesarean sections
  - 1.1.4. Improving the statistics
- 1.2. Normal childbirth in the human species
  - 1.2.1. Hormonal cocktail in normal childbirth
  - 1.2.2. Positions in normal childbirth
  - 1.2.3. Female sexuality
  - 1.2.4. Physiology of the sexual act
- 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. Intimacy
  - 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. Privilege
- 1.6. The Why of Emotional Needs
  - 1.6.1. Comfort
  - 1.6.2. Intimacy
  - 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
- 1.9. 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. Emergencies in Natural Childbirth

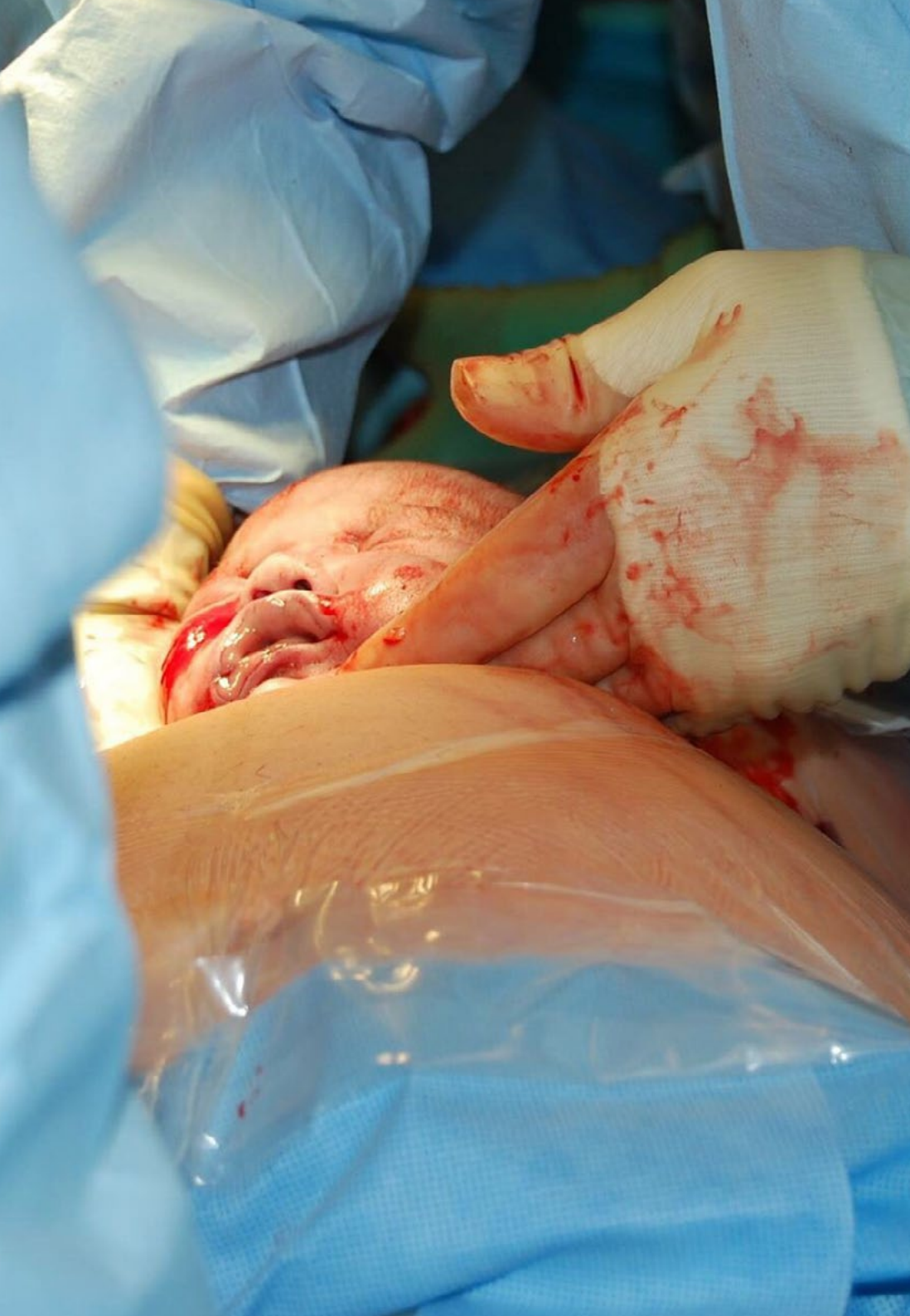
- 2.1. Ruptured membrane
  - 2.1.1. Signs and Symptoms
  - 2.1.2. Risk Factors
  - 2.1.3. Diagnosis and Management
  - 2.1.4. Impact on childbirth and postpartum
- 2.2. Induced labor
  - 2.2.1. Reasons for Induction
  - 2.2.2. Induction methods
  - 2.2.3. Risks and Benefits
  - 2.2.4. Monitoring and follow-up

- 2.3. Extended Labor
  - 2.3.1. Causes and Risk Factors
  - 2.3.2. Effects on the Mother and the 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. Resolution Maneuvers and 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 Sections
  - 2.6.2. Process and Recovery
  - 2.6.3. Risks and Benefits
  - 2.6.4. Elective Cesareans and Planning
- 2.7. Management of Complicated Childbirth
  - 2.7.1. Assessment and Monitoring
  - 2.7.2. Interventions and Pain Management
  - 2.7.3. Teamwork and Staff Roles
  - 2.7.4. Emotional and Psychological Support
- 2.8. Patient in Complicated Childbirth
  - 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 Childbirth
  - 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 Record of Consent

### Module 3. Newborn Emergencies

- 3.1. Initial Assessment of the Newborn
  - 3.1.1. Apgar Score Assessment
  - 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-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. Respiratory Difficulties in the Newborn
  - 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



- 3.5. Neonatal Hypoglycemia
  - 3.5.1. Risk Factors and Symptoms
  - 3.5.2. Capillary Glucose Measurement
  - 3.5.3. Treatment and Prevention
  - 3.5.4. Long-Term Monitoring and Control
- 3.6. Neonatal Jaundice
  - 3.6.1. Etiology and Pathophysiology
  - 3.6.2. Clinical Evaluation 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 and Late-Onset Sepsis
  - 3.7.2. Neonatal Meningitis
  - 3.7.3. Antibiotic Prophylaxis and Treatment
  - 3.7.4. Immunization and Infection Prevention
- 3.8. Cardiovascular Emergencies in the Newborn
  - 3.8.1. Neonatal Shock
  - 3.8.2. Congestive Heart Failure
  - 3.8.3. Persistent Ductus Arteriosus
- 3.9. Management of Premature Newborns
  - 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 Neonatal Emergency Care
  - 3.10.1. Preparation and Teamwork
  - 3.10.2. Effective Communication Among Professionals
  - 3.10.3. Follow-Up and Referral to Specialized Services

# 05 Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.



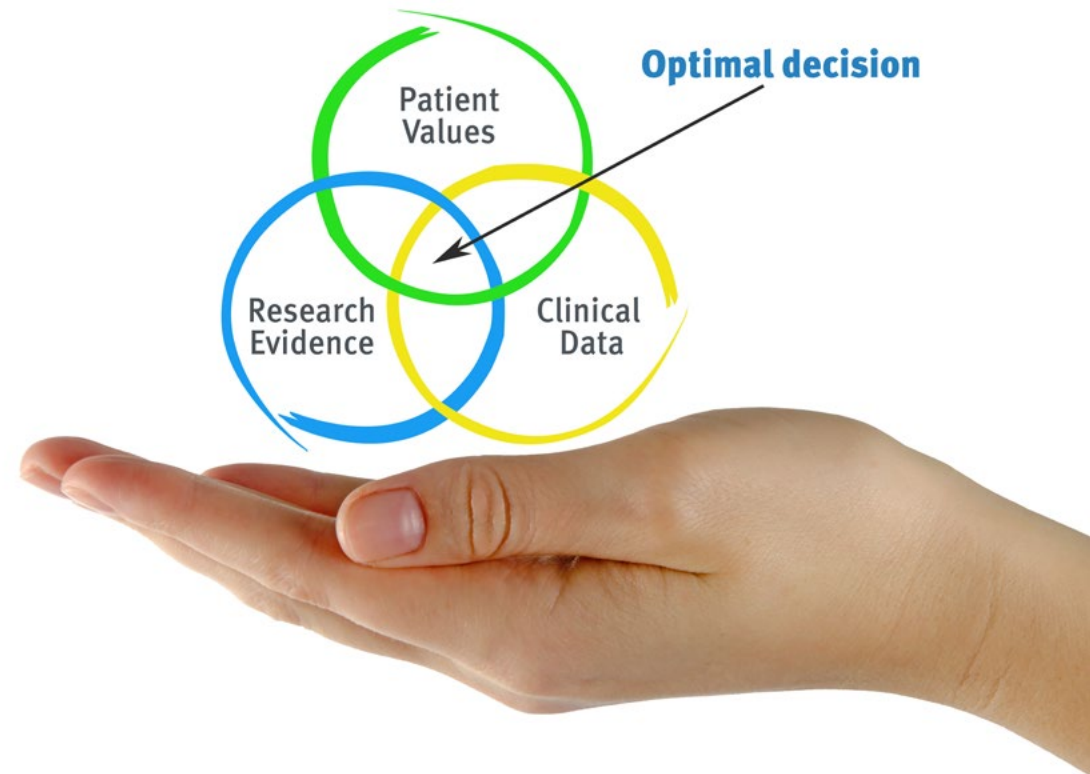
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH 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. Gervas, 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.

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*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. 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.*



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

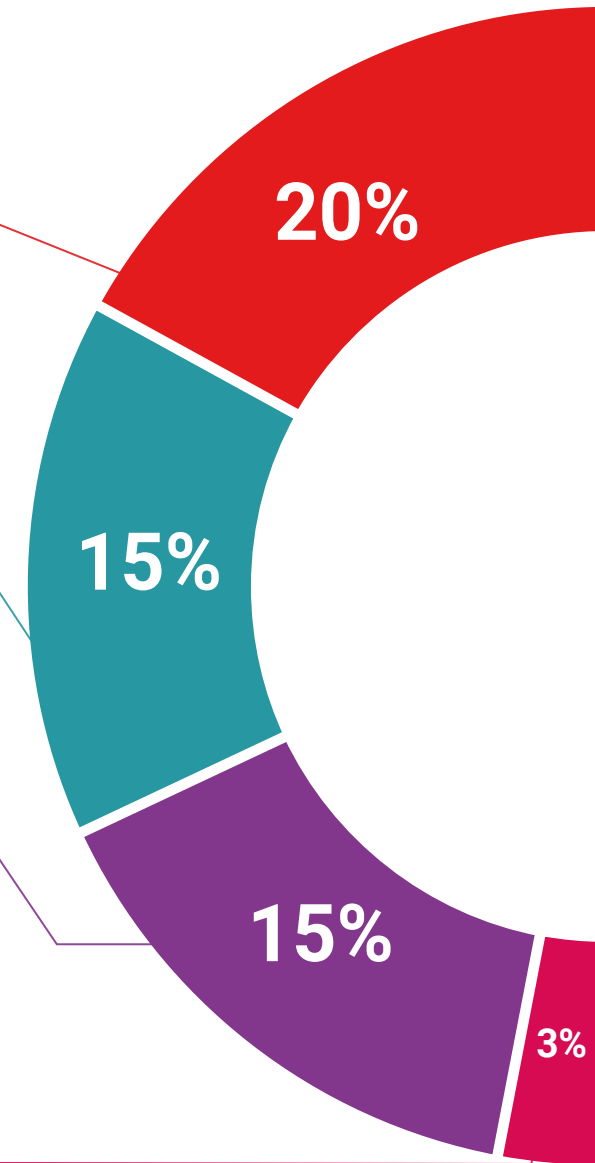
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

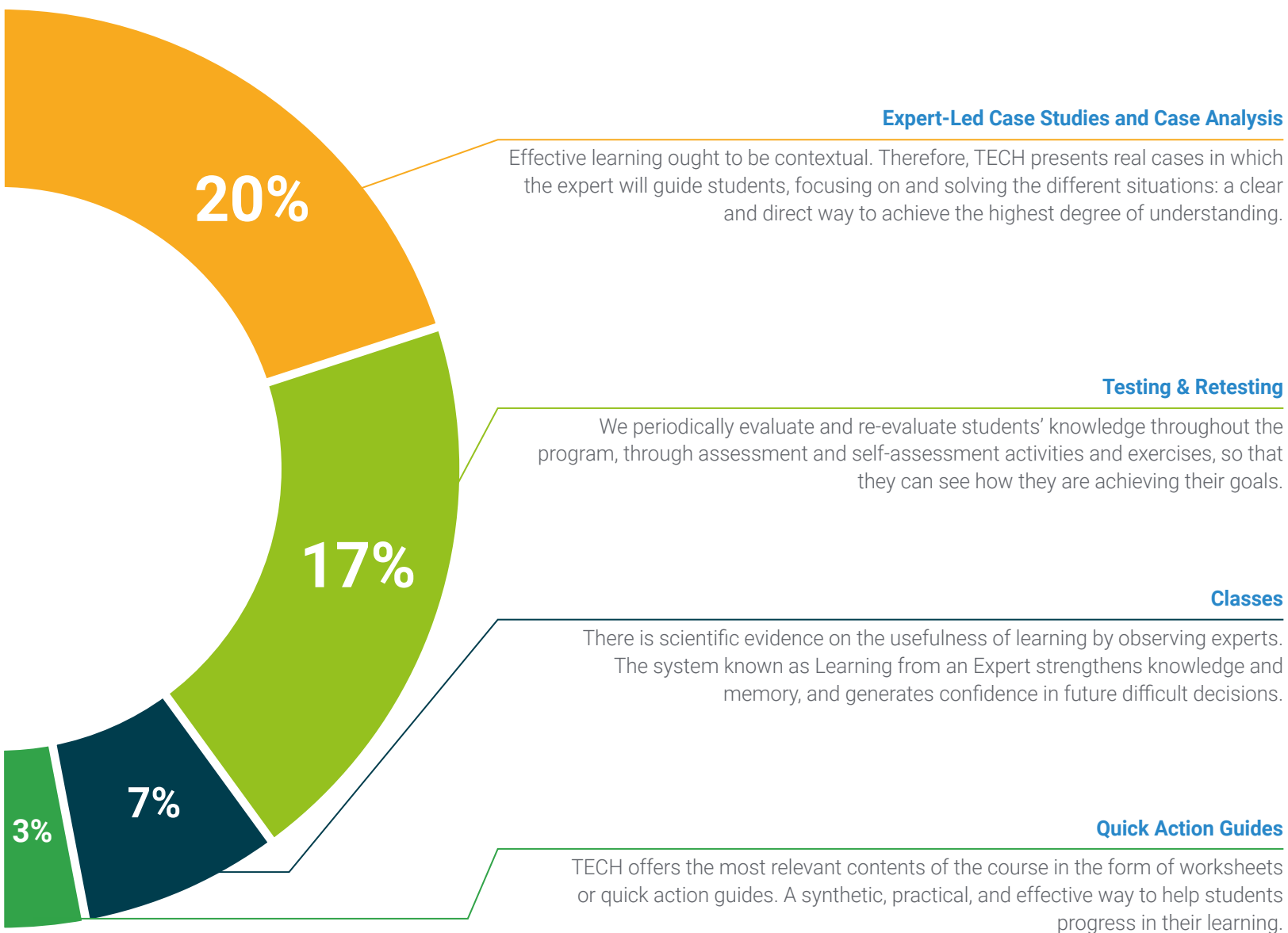
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### 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.





# 06 Certificate

The Postgraduate Diploma in Emergencies in Natural Childbirth guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Technological University.



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*Successfully complete this program  
and receive your university qualification  
without having to travel or fill out  
laborious paperwork”*

This **Postgraduate Diploma in Emergencies in Natural Childbirth** contains the most complete and up-to-date scientific 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 certificate 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 Emergencies in Natural Childbirth**

Official N° of Hours: **450 h.**



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



## Postgraduate Diploma

Emergencies in  
Natural Childbirth

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