

# Postgraduate Certificate

## Scientific Evidence on Natural Childbirth for Midwives





## Postgraduate Certificate Scientific Evidence on Natural Childbirth for Midwives

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedicated: 16 hours a week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/in/nursing/postgraduate-certificate/scientific-evidence-natural-childbirth-midwives](http://www.techtitute.com/in/nursing/postgraduate-certificate/scientific-evidence-natural-childbirth-midwives)

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# 01

# Introduction

Numerous studies indicate that vaginal birth is safer for most women and newborns. Additionally, it has been shown that women who give birth naturally are less likely to have serious complications such as infections and hemorrhage, compared to women who deliver by cesarean section. It is therefore essential for Midwives to have an in-depth understanding of the neuroscience of pregnancy and motherhood, as well as the clinical implications and practical applications in this area. For this reason TECH has created an exclusive qualification that focuses on providing in-depth training to professionals in the sector, to carry out pregnancy monitoring based on scientific evidence. All this through a syllabus with the most complete theoretical and practical contents of the current academic panorama.





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*This is the best Postgraduate Certificate in which you can invest to be updated on the latest scientific research on Natural Childbirth. Enroll now”*

Within any field of study, scientific evidence is a fundamental basis that allows a clearer understanding of the situations that arise within it. In the case of Natural Childbirth, research in this sector allows midwives to assist more efficiently in these procedures, so the update on this topic ensures that they can deal optimally with any kind of inconvenience.

Therefore, this Postgraduate Certificate becomes a solid training tool for professionals in this sector that is constantly advancing, since more and more women are opting for Natural Childbirth. In this way, the program offers top quality content that explains in detail the latest discoveries in neurobiological reactions that occur during this procedure, as well as the importance of the mother-child bond.

This will allow participants to gain more updated knowledge on the impact of breastfeeding and care on the brain of the caregivers that will lead them to broaden their vision on this field and increase their theoretical bases. Additionally, they will have a team of teachers composed of the best specialists in this sector, who will transfer them the panorama that exists at this time in terms of Scientific Evidence in Natural Childbirth.

Students will be able to complete the program of studies 100% online thanks to the Relearning methodology, which allows them to learn from anywhere and at a time that is convenient for them. Additionally, they will have constant access to multimedia resources that will help them delve deeper into the oxytocin hormone and its role in the mother-child bond. They will also be able to improve their problem-solving skills through case studies that simulate real-life situations.

This **Postgraduate Certificate in Scientific Evidence 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 case studies presented by experts on Scientific Evidence on Natural Childbirth for Midwives
- ♦ 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 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



*What are you waiting for to access the most modern content on the market? Start now and embark on a journey full of learning"*

“

*Delve into the particularities related to oxytocin and its fundamental role in the mother-child bond"*

The program's teaching staff includes professionals from the sector who bring the experience of their work to this training, as well as recognized specialists from reference societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive training programmed to train in real situations.

The design of this program focuses on Problem-Based Learning, in which the professional will have to try to solve the different professional practice situations that will arise throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

*The innovative Relearning methodology will ensure you a completely virtual and effective learning.*

*A Postgraduate Certificate that will update your knowledge on the theory of Natural Childbirth and strengthen your skills in the clinical approach to behavioral changes in motherhood.*



# 02

# Objectives

The main reason why this University Course has been designed is to provide midwives with an advanced update of knowledge, giving them a complete training on the Scientific Evidence in Natural Childbirth. Additionally, it seeks to provide participants with a holistic knowledge about the neurobiological reactions that the mother and the newborn during the whole procedure, in order to be able to attend them in a more effective way.







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*Update your professional vision and understanding of the most recent research advances in the field of Natural Childbirth”*



## General Objectives

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- ♦ 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 for 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
- ♦ Impart fundamental knowledge about the neuroscience of pregnancy, Maternity and perinatal care, as well as the Scientific Evidence related to Natural Childbirth and evidence-based care practices



*Take advantage of this unique opportunity and take the step you need to update yourself on Scientific Evidence in Natural Childbirth"*





## Specific Objectives

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- ♦ Analyze brain plasticity during maternity and the importance of animal and human research in this field
- ♦ Examine brain changes in rodents and humans during pregnancy and the postpartum period and postpartum and the involvement of hormones in maternity
- ♦ Examine the neurobiology of breastfeeding and how empathy and altruism influence infant care
- ♦ Traverse the neuroscientific research to psychoeducational interventions and emotional and cognitive support for mothers and fathers-to-be
- ♦ Analyze the scientific evidence on Natural Childbirth and evidence-based care practices
- ♦ Examine the use of noninvasive technology and analgesia and anesthesia in Natural Childbirth
- ♦ Identify the benefits and risks of Natural Childbirth and tailor care according to the context, including the hospital and home

03

# Course Management

The teaching staff of this program has been carefully selected by TECH, since its main objective is to provide quality education and immediate access to the most contemporary knowledge to all its students. In this way, participants will learn from the best prepared professionals in this field, who will share with them the most modern scientific evidence on clinical intervention procedures during Natural Childbirth, as well as the neurobiological reactions that occur during this event.



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*Don't wait any longer, rely on professionals with extensive experience in Big Data and Biomedicine so that you too can acquire a high-level specialization"*

## Management



### Dr. Santos Leal, Emilio

- Specialist Doctor at Fundación Alcorcón University Hospital
- Specialist in Hospital Consortium Valencia General University Hospital
- Medical specialist at Pius Hospital de Valls
- Medical specialist at Clínica Perpetuo Socorro
- Specialty in Gynecology and Obstetrics by San Carlos Clinical Hospital
- Degree in Medicine and Surgery from the University of Cantabria



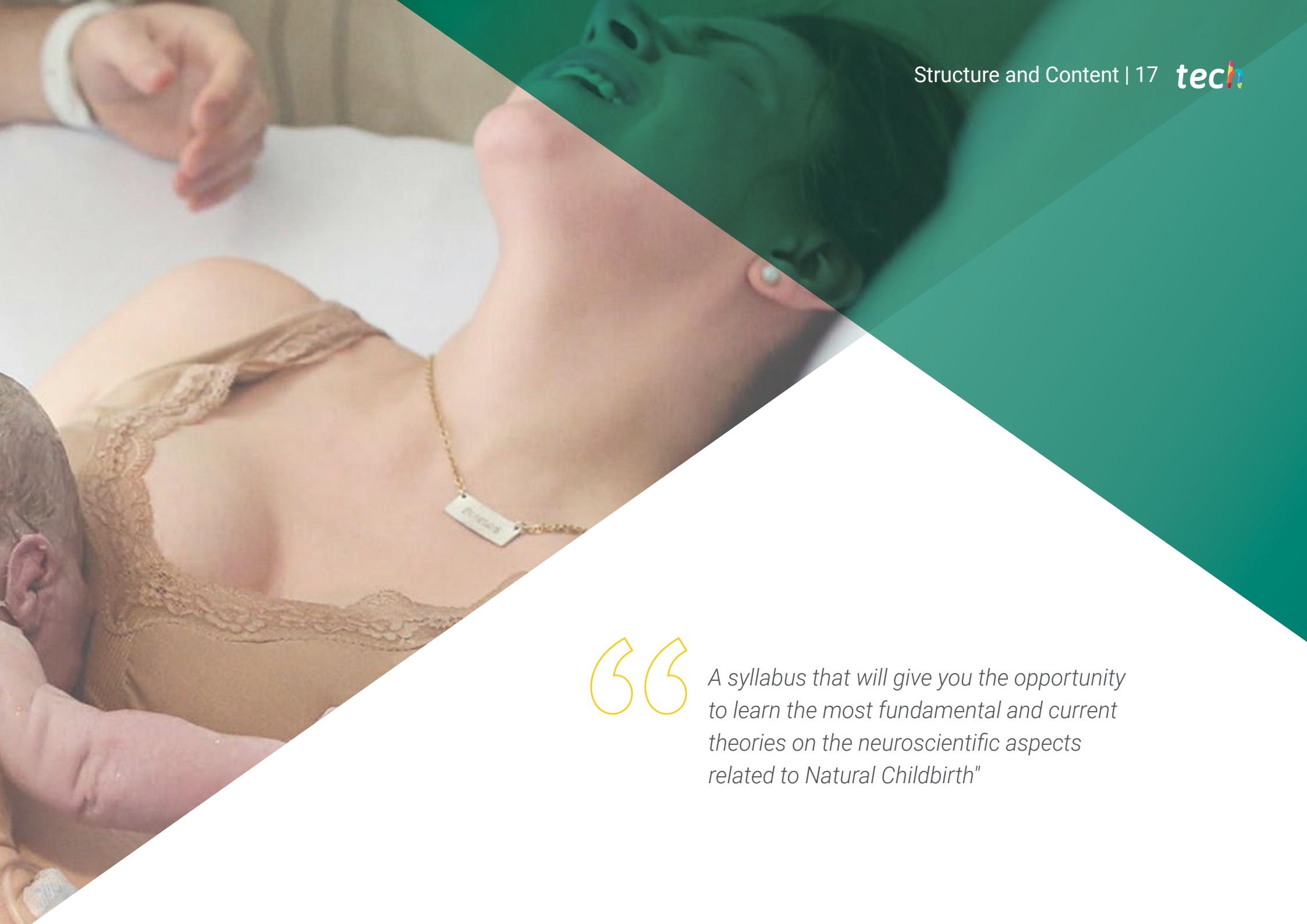
# 04

## Structure and Content

The syllabus of this academic program has been designed by a high-level teaching staff that has put together a specific syllabus to train midwives in their crucial work. Therefore, the graduate will go through the scientific and neuroscientific evidence unraveling the neuroscience of pregnancy, studying animal models in maternity research and delving into the brain changes that occur in humans during pregnancy and postpartum. Likewise, you will understand the clinical implications and practical applications and will be able to establish the scientific evidence in pregnancy monitoring. All this taught under the most effective methodology, the Relearning.







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*A syllabus that will give you the opportunity to learn the most fundamental and current theories on the neuroscientific aspects related to Natural Childbirth"*

## Module 1. Scientific and Neuroscientific Evidence

- 1.1. Neuroscience of Pregnancy and Motherhood
  - 1.1.1. Brain Plasticity During the Transition to Childbearing
  - 1.1.2. Comparison Between Animal and Human Studies
  - 1.1.3. Evolution and the Biological Mechanisms of Maternal Care
  - 1.1.4. Hormones and Their Role in Maternal Care
- 1.2. Animal Models in Maternity Research
  - 1.2.1. Brain Changes in Animals During Pregnancy and Offspring Care
  - 1.2.2. Hormones and the Regulation of Maternal Behavior in Animals
  - 1.2.3. Applications of Animal Findings to Human Research
- 1.3. Brain Changes in Humans During Pregnancy and the Postpartum Period
  - 1.3.1. Brain Reorganization During Pregnancy
  - 1.3.2. Limbic System and the Mother-Infant Connection
  - 1.3.3. Social Cognition, Empathy and Maternal Adaptations
- 1.4. Clinical Implications and Practical Applications
  - 1.4.1. Impact of Breastfeeding and Caregiving on Caregivers' Brains
  - 1.4.2. Neurobiology of Breastfeeding
  - 1.4.3. Clinical Approach to Behavioral Changes in Childbearing
- 1.5. Oxytocin and its Role in Bonding
  - 1.5.1. Oxytocin in Humans
  - 1.5.2. Oxytocin in the Infant
  - 1.5.3. Oxytocin in Maternal Care
- 1.6. Scientific Evidence in Pregnancy Follow-Up
  - 1.6.1. Nutrition in Pregnancy
  - 1.6.2. Diabetes Screening
  - 1.6.3. Weight Gain
- 1.7. Evidence-Based Childbirth Care Practices
  - 1.7.1. Labor Monitoring
  - 1.7.2. Noninvasive Technology
  - 1.7.3. Analgesia and Anesthesia





- 1.8. Evidence-Based Interventions I
  - 1.8.1. Large Infant
  - 1.8.2. Prolonged Gestation
  - 1.8.3. Water Breakage
- 1.9. Evidence-Based Interventions II
  - 1.9.1. Oxytocin IV
  - 1.9.2. Fetal Distress
  - 1.9.3. Labor Induction
- 1.10. Evidence-Based Interventions III
  - 1.10.1. Cord Cutting
  - 1.10.2. Childbirth

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*The Postgraduate Certificate provides simulated environments, that provide immersive learning programmed in order to be better prepared in real situations”*

# 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.





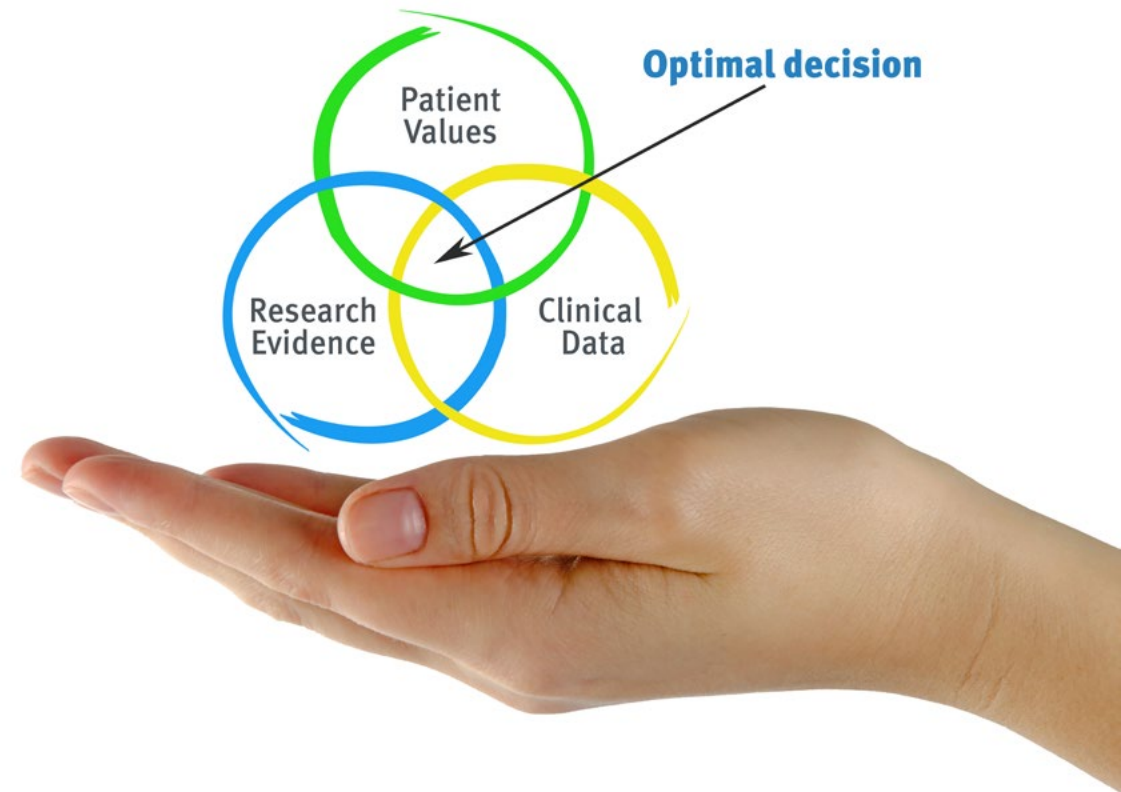
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH 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. 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, in an attempt to recreate the real conditions in professional nursing 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. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.



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



At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

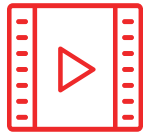
*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



### Study Material

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

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



### Nursing Techniques and Procedures on Video

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



### Interactive Summaries

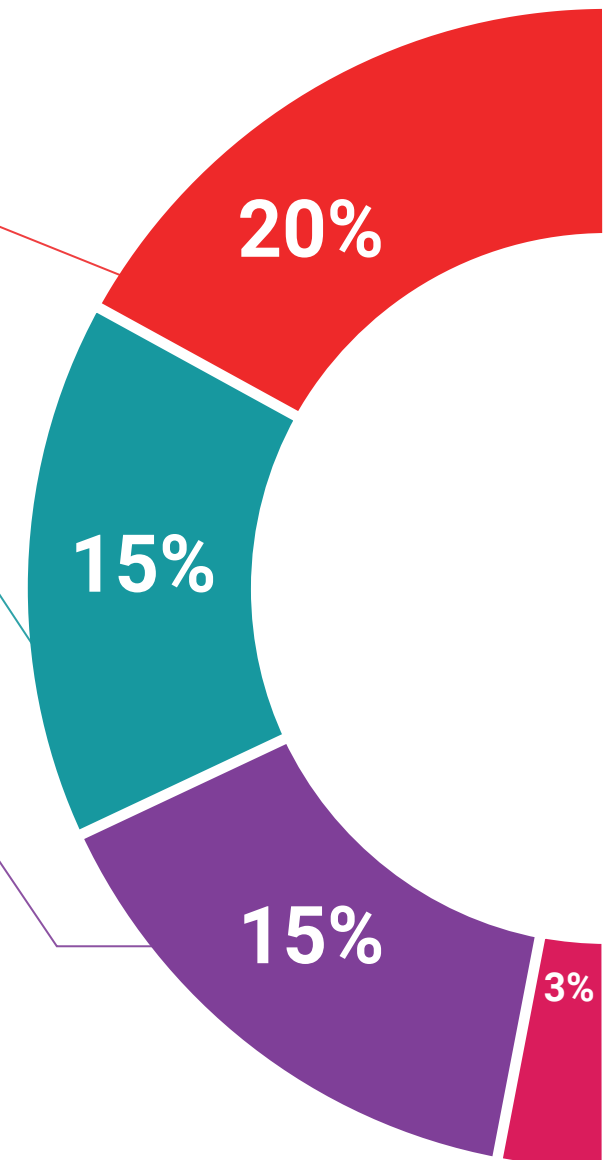
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

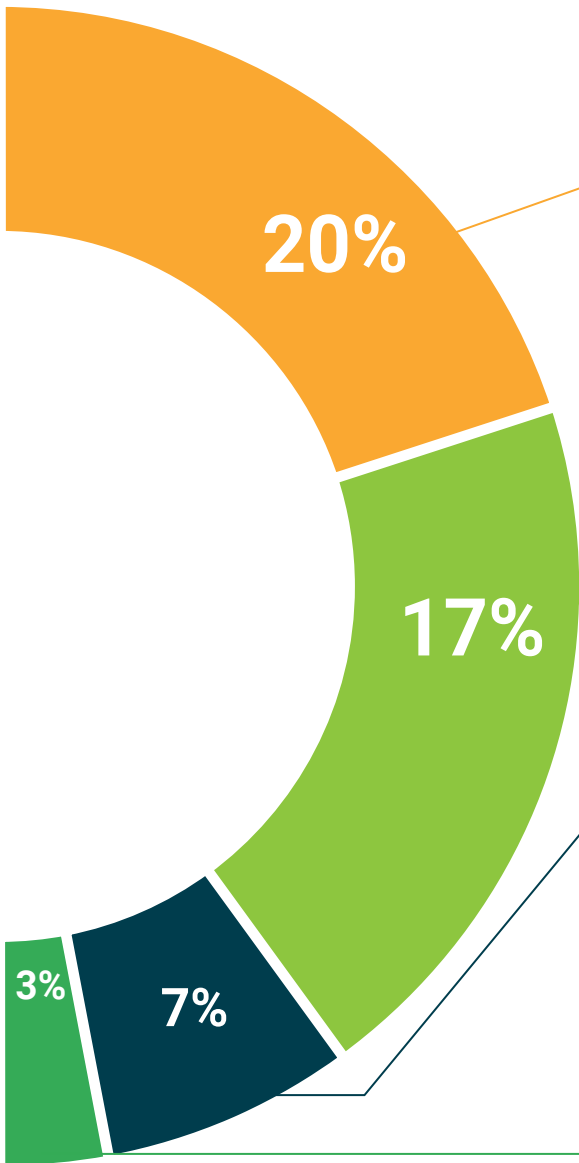
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### Classes

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

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



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



06

# Certificate

The Postgraduate Certificate in Scientific Evidence on Natural Childbirth for Midwives guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate 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 Certificate in Scientific Evidence on Natural Childbirth for Midwives** 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 Certificate** issued by **TECH Technological University** via tracked delivery\*.

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

Title: **Postgraduate Certificate in Scientific Evidence on Natural Childbirth for Midwives**

Official N° of Hours: **150 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.



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