



# Postgraduate Certificate

# Physiology of Labor for Midwives

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Credits: 8 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/nursing/postgraduate-certificate-physiology-labor-mindwives

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# tech 06 | Introduction

The midwife works in the care and attention of pregnant women ensuring their hygiene, comfort, psychological support and nutritional care, as well as her own safety, development and overall health: the basic principles to ensure effective care. Thanks to the evolution of low-intervention childbirth, the different health professionals who work with pregnant women must provide adequate and effective care, reduce unnecessary interventions to a minimum and ensure their privacy, as well as promote newborn care such as cleaning, placing identification bracelets, etc., in close contact with the mother, thereby favoring the mother-child bond.

Midwives play an essential role in the evolution of the pregnant woman, the laboring woman and her newborn, and this is ensured by professionals dedicated directly to the care of women, since the combined knowledge allows us to achieve care in favor of the recommendations on normal childbirth.

The general purpose of this educational program is to update the skills and knowledge of midwives in order to meet the health needs of women and their future children with scientific rigor and the highest professional standards. This program was created in response to multiple needs in the hospital environment for all professionals, both for those recently incorporated and those who have been providing their professional services for some time and who require constant up-to-date education in this very specific area of practice.

In order to meet this objective, TECH provides its innovative *Relearning* methodology and the advantages of 100% online learning. Additionally, this Postgraduate Certificate counts with the participation of an International Guest Director, who is in charge of delving into the latest progress in the professional practice of midwives through an exclusive Masterclass.

This **Postgraduate Certificate in Physiology of Labor for Midwives** contains the most complete and up-to-date scientific program on the market. The most important features include:.

- Development of more than 75 clinical cases presented by experts in Obstetrics and Gynecology
- 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
- The latest developments in obstetrics and gynecology care and intervention
- Contains practical exercises where the self-evaluation process can be carried out to improve learning
- Algorithm-based interactive learning system for decision making in the situations that are
  presented to the student
- With special emphasis on evidence-based nursing and research methodologies in obstetrics
- All of this will be complemented by 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



A comprehensive Masterclass will be available to you through this TECH program and thanks to the exclusive participation of a world-class expert"



This Postgraduate Certificate is the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in Physiology of Labor for Midwives, you will obtain a certificate issued by TECH Technological University"

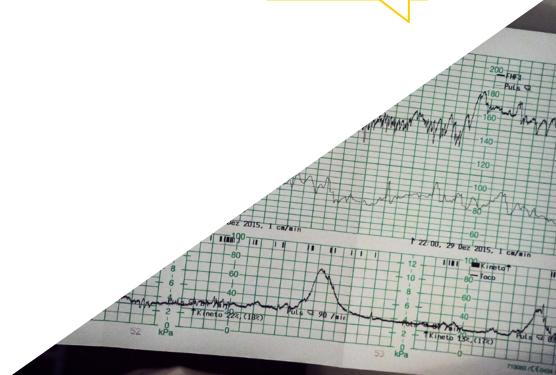
The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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.

Increase your decision-making confidence by updating your knowledge through this Postgraduate Certificate.

Make the most of the opportunity to learn about the latest advances in Physiology of Labor for Midwives and improve your patient care.







# tech 10 | Objectives



# **General Objectives**

- Acquire knowledge in the specifics of Obstetric Care
- Promote work strategies based on a comprehensive approach to the patient as a standard model for achieving excellent care
- Foster the acquisition of technical skills and abilities, through a powerful audiovisual system, and the possibility of development through specific knowledge.
- Encourage professional stimulation through continuous education and research



Take the step to get up to date on the latest developments in Physiology of Labor for Midwives"





# Objectives | 11 tech



# **Specific Objectives**

- Explain the importance of facilitating the accessibility and participation of the accompanying person throughout the process
- Involve the woman in decision-making throughout the process.





### **International Guest Director**

Dr. Kellie Thiessen is a **distinguished midwife and nurse practitioner**, specialized in the **clinical field** of maternal and child **health care**. Her skills have been recognized on multiple occasions, including receiving awards such as the **Professional Development Award from the Canadian Child Health Clinician Scientist Program** (CCHCSP).

Thanks to her broad experience, this expert has been selected as Director of the Midwifery Program at the University of British Columbia. Prior to that, she has directed the academic itinerary at the University of Manitoba for more than a decade. At that institution, she was key to the creation of a Bachelor's Degree in Obstetrics focused on the specific education of future midwives.

Dr. Thiessen's work has also been highlighted through her designation as a Senior Specialist in Maternal and Obstetric Health by the Institute for Global Public Health at the University of Manitoba. In turn, her scientific career has been linked to the Children's Hospital Research Institute of Manitoba (CHRIM).

On the other hand, her healthcare career has spanned the health systems of countries such as the United States, Brazil and Canada. Through these collaborations, he has been part of innovative models that provide patients with better care and health guarantees. In this way, she has developed a professional approach focused on expanding the obstetric options available to mothers and their families when they are in a vulnerable situation. An example of this is its direct collaboration with the Rankin Inlet Birth Center, the second largest city in the Nunavut Territory, and with the Ongomiizwi Indigenous Health and Healing Institute.

Dr. Thiessen has also led multidisciplinary research teams, covering areas such as health policy, human resource planning and economics in the medical environment. In doing so, she has demonstrated a strong commitment to maternal and child welfare in different settings and communities.



# Dr. Thiessen, Kellie

- Director, Obstetrics Program for Midwives at the University of British Columbia, Canada
- Director of the Midwifery Education Program at the University of Manitoba
- Senior Specialist in Maternal Health and Obstetrics, Institute of Global Public Health, University of Manitoba
- Research Associate, Children's Hospital of Manitoba Research Institute
- Collaborator with the Rankin Inlet Birth Centre, Nunavut Territory
- Collaborator of the Indigenous Institute of Health and Healing Ongomiizwi
- PhD in Applied Health Sciences at the University of Manitoba, Canada

- Master of Science in Nursing and Obstetrics for Midwives, Georgetown University, Canada
- Bachelor of Science in Nursing, Eastern Mennonite University, United States
- Member of: Canadian Health Human Resources Network, American College of Nurse Midwives, Manitoba Registered Nurses Association and Manitoba Association of Midwives



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

### Management



### Dr. Rodríguez Díaz, Luciano

- Nursing Specialist in Obstetrics and Gynecology
- Head of Studies of the Obstetric-Gynecological Nursing Teaching Unit (Midwife) of the University Hospital of Ceuta.
- Midwife at the University Hospital of Ceuta
- Teacher at the University Centre of Nursing Virgen of La Paz. Ronda, Spain
- Professor of the Ceuta Midwifery Teaching Unit
- Vocal of the Emergencies Group of the Spanish Society of Emergency Nurses (SEEUE)
- Responsible for Perinatal Health: Reproductive Sexual Health and Normal Childbirth of Ingesa
- Member of the Clinical Commission for Research and Continuing Education of the University Hospital of Ceuta.
- Member of: Ceuti Studies Institute, Editorial Board of the European Journal of Health Research, Spanish Society of Emergency Medicine
- PhD from the University of Granada
- Master's Degree in Physical Education and Health from the University of Granada.
- Master's Degree in Gynecological Nursing from the CEU Cardenal Herrera University.
- Master's Degree in Obstetric Nursing from the CEU Cardenal Herrera University.
- Speciality in Obstetric and Gynecological Nursing from the University of Málaga
- University Diploma in Nursing, University of Cadiz
- Currently studying a Postgraduate Diploma in Community Health Promotion in National University of Remote Education



### Dr. Vázquez Lara, Juana María

- Primary Care Nurse
- Emergency Service of 061 Nurse of the Ceuta Health Management Area.
- PhD from the University of Granada
- Acting midwife of the Delivery Service at the University Hospital of Ceuta.
- Head of Studies of the Ceuta Midwifery Teaching Unit.
- Professor in the Ceuta Midwifery Teaching Unit
- National Coordinator of the Obstetrical-Gynecological Emergencies Working Group of the Spanish Society of Emergency Nursing (SEEUE)
- Master's Degree of the Official Doctoral Program in Physical Education and Health
- University Expert on "Health Promotion in the Community" UNED
- Specialty in Obstetric and Gynecological Nursing (Midwife) at the Costa del Sol Hospital in Marbella of the University School of Nursing and Midwifery of Málaga by the University of Málaga
- University Diploma in Nursing, Salus Infirmorum University School of Nursing, University of Cádiz

# tech 18 | Course Management

### **Professors**

### Dr. Andrés Núñez, Carmen Patricia

- Specialist in Obstetrics and Gynecology at the University Hospital of Ceuta
- Specialist in Gynecology and Obstetrics at Quirónsalud Campo of Gibraltar Hospital
- INGESA Specialist Physician
- Gynecology Clinical Management Unit at the Hospital Universitario San Cecilio. Granada
- Degree in Medicine and Surgery

### Dr. Carrasco Racero, María Mercedes

- Nurse Practitioner in Gynecological Care
- Internship Coordinator at the University Center of Nurses. Ronda, Spain
- Degree in Nursing
- Teacher

### Ms. De Dios Pérez, María Isabel

- Midwife at the University Hospital of Zaragoza
- · Diploma in Nursing
- Nursing Specialist in Obstetrics and Gynecology

### Ms. Díaz Lozano, Paula

- Midwife, University Hospital Virgen de Valme
- · Midwife in the Ceuta Health Area
- Specialist in Obstetrics and Gynecology at the University Hospital of Ceuta.
- Teacher specialized in Obstetrics
- Diploma in Nursing by Faculty of Nursing and Physiotherapy of Cádiz

### Ms. Llinás Prieto, Lucía

- Nurse Practitioner in Gynecological Care
- Teacher
- Diploma in Nursing

### Mr. Mérida Téllez, Juan Manuel

- Nurse specialized in Obstetrics and Gynecology
- Midwife, Costa del Sol. Hospital Marbella, Spain
- Teacher
- Diploma in Nursing

### Ms. Palomo Gómez, Rocío

- Nurse specialized in Gynecology and Obstetrics
- Ceuta Specialized Care Midwife
- Midwife in the Carlos Haya Regional University Hospital. Málaga, Spain
- Teacher in the Malaga Midwifery Unit
- Diploma in Nursing

### Ms. Revidiego Pérez, María Dolores

- Nurse specialized in Gynecology and Obstetrics
- Midwife of Specialized Care in Campo de Gibraltar
- Midwife Quironsalud Campo de Gibraltar Hospital
- Teacher
- Diploma in Nursing

### Ms. Gilart Cantizano, Patricia

- Nurse specialized in Obstetrics and Gynecology
- Midwife of Specialized Care in Campo de Gibraltar
- Midwife Quironsalud Campo de Gibraltar Hospital
- EIR midwife in the Andalusian Health Service
- Primary Care Physician and Critical Care and Emergency Department in the Andalusian Health Service
- Teacher
- Diploma in Nursing
- Expert university in Pharmacy Nutrition at the IFBBB
- Expert university in cardiovascular risks III at the IFBBB
- University Expert in Accidents and Emergencies from the Complutense University of Madrid

### Dr. Mérida Yáñez, Beatriz

- Nurse specialized in Obstetrics and Gynecology
- Midwife at the Andalusian Health Service
- Midwife at the Vithas Hospital
- Midwife at the Murcia Health Service
- Doctor in Health Sciences
- Diploma in Nursing
- Member of: Scientific Committee of the First International Congress of Research and Innovation in Nursing and Physiotherapy of Ceuta and Melilla and Scientific Committee of the National Health Journal

### Dr. Rivero Gutiérrez, Carmen

- Midwife in Primary Care in the Ceuta Health Area
- Midwife in Ingesa Ceuta
- Midwife at the University Hospital Complex Puerta del Mar. Professor and Tutor of the Ceuta Midwifery Teaching Unit
- Diploma in Nursing

### Mr. Rodríguez Díaz, David

- Nurse at Nuestra Señora de Candelaria University Hospital
- Teacher
- · Diploma in Nursing

### Dr. Vázquez Lara, Francisco José

- Specialist in Biological Sciences
- Teacher
- PhD from the Polytechnic University of Valencia
- Degree in Biological Sciences

### Ms. Vázquez Lara, María Dolores

- Nurse specialized in primary care of pregnant women.
- Campo de Gibraltar Primary Care Nurse
- Teacher
- Diploma in Nursing

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### Mr. Márquez Díaz, Antonio

- Midwife in Primary Care in Andalusian Government
- Midwife, El Angel Hospital HLA Group
- Midwife of in Vithas Hospital
- Intern Resident Nursing Plan Tutor
- OPOSALUD Tutor
- University Diploma in Emergency Nursing, El Ángel Hospital
- Nursing University Diploma in ICU Pediatrics and Neonatal Unit of El Ángel Hospital
- Resident Midwife, Andalusian Regional Government
- Midwife, Costa del Sol Hospital
- Midwife Quirón Campo de Gibraltar Hospital
- Official Master's Degree in Economy, Health Management and Rational Use of Medicines by the University of Málaga
- Official Master's Degree in New Trends in Health Sciences Research by the University of Málaga
- Master's Degree in Public Health from the University de Almería.
- Master's Degree in Nurse Prescriptions and Pharmacotherapeutic Monitoring, University of Valencia
- Master's Degree in Pharmacotherapy, University of Valencia
- Diploma in Nursing from the University of Málaga





# Course Management | 21 tech

### D. Muñoz Vela, Francisco Javier

- Nurse specialized in Obstetrics and Gynecology
- Nursing from internship coordinator at the Maternity and Infant Care Center of Málaga
- Midwife in the Carlos Haya Regional University Hospital
- Midwife in the San Antonio Park Hospital
- Midwife in Specialized in Care at the Maternal-Child Care Hospital of Málaga
- Associate Professor, Department of Medicine, Málaga University
- Diploma in Nursing from the University of Málaga



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



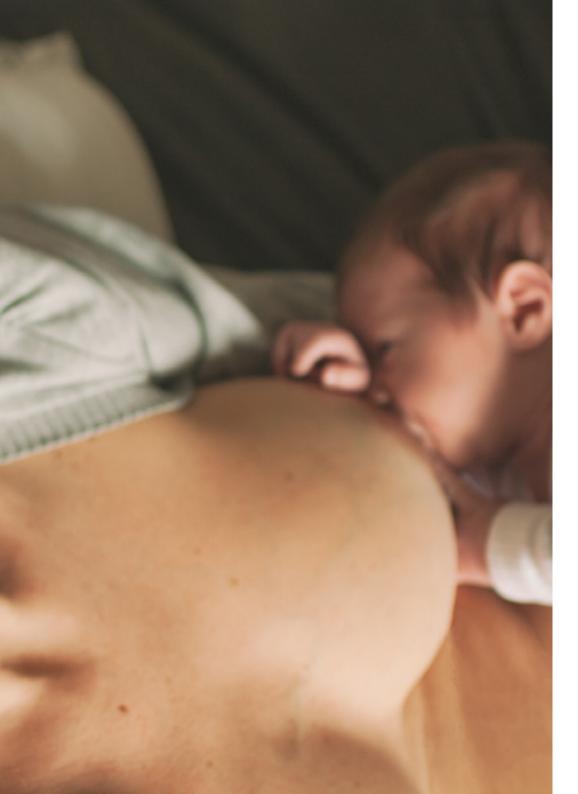


# tech 24 | Structure and Content

### Module 1. Labor

- 1.1. Physiology of uterine contraction. Uterine Activity
  - 1.1.1. Basic Physiological Aspects of Uterine Contraction
  - 1.1.2. Basic Biochemistry of Uterine Contraction
  - 1.1.3. Uterine Activity. Brief Historical Review
  - 1.1.4. Components of Uterine Activity
  - 1.1.5. Abdominal Muscles
  - 1.1.6. Causes of Onset of Labor
- 1.2. Factors Involved in Labor
  - 1.2.1. The Fetus. Fetal Head
  - 1.2.2. Fetal Statics
  - 1.2.3. Leopold's Maneuvers
  - 1.2.4. Obstetric Nomenclature Determined by Fetal Statics
  - 1.2.5. Diagnosis by Vaginal Examination
  - 1.2.6. Birth Canal
  - 1.2.7. Pelvic Axis
  - 1.2.8. Hodge Planes
  - 1.2.9. Soft Birth Canal
  - 1.2.10. Motor of Labor
- 1.3. Midwife's Assessment of Fetal Well-Being
  - 1.3.1. Evaluation of Fetal Activity
  - 1.3.2. Non-stress Test (NST)
  - 1.3.3. Stress Test or Contraction Tolerance Test
  - 1.3.4. Biophysical Profile
  - 1.3.5. Amnioscopy
  - 1.3.6. Ultrasound. Doppler Study
  - 1.3.7. Bioelectronic Monitoring in Labor
  - 1.3.8. Fetal Heart Rate Monitoring
  - 1.3.9. Fetal Heart Rate Parameters
  - 1.3.10 Biochemical Monitoring





# Structure and Content | 25 tech

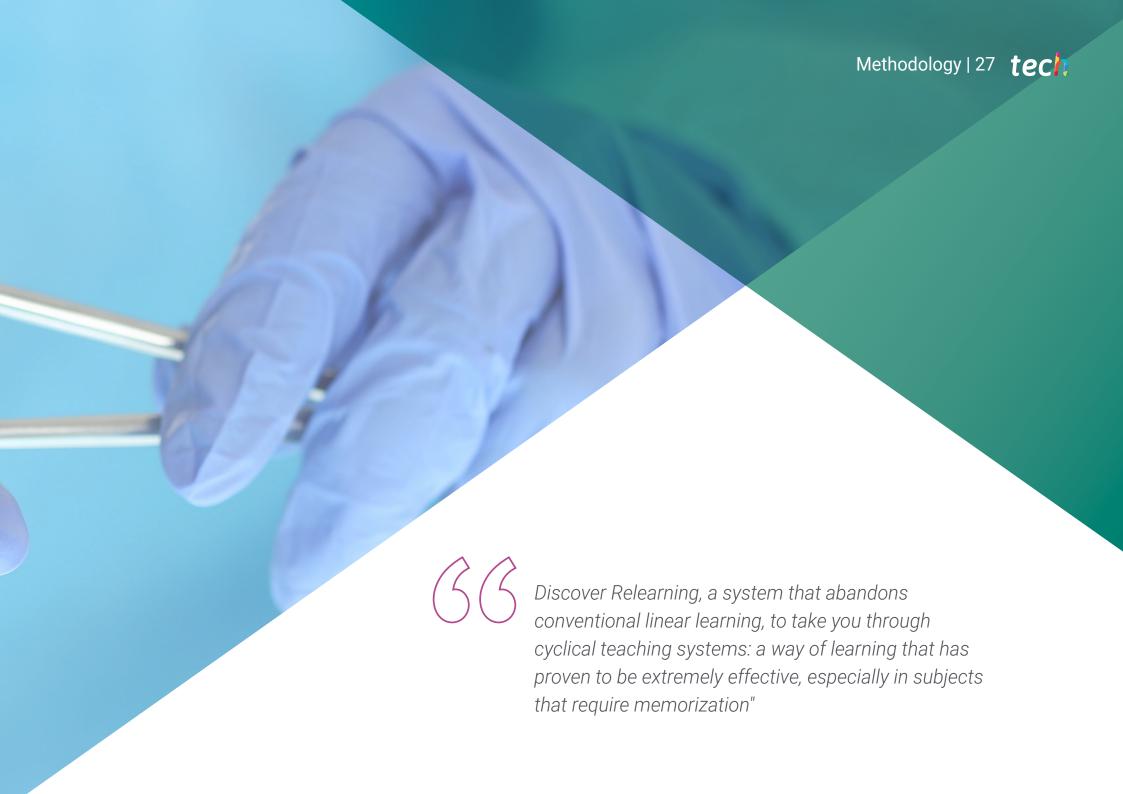
- 1.4. Onset of Labor and Periods of Labor
  - 1.4.1. Onset of Labor. Prodromes of Labor
  - 1.4.2. Dilatation Period
  - 1.4.3. Birthing Period
  - 1.4.4. Delivery Period
- 1.5. Delivery Mechanism in Vertex Presentation
  - 1.5.1. Accommodation and Wedging in the Upper Strait
  - 1.5.2. Descent and Intrapelvic Rotation
  - 1.5.3. Flexion
  - 1.5.4. Detachment
  - 1.5.5. External Rotation and Shoulder Delivery
- 1.6. Pharmacology in Birth for Midwives
  - 1.6.1. Pharmacokinetic Principles
  - 1.6.2. Mechanisms of Action between Mother and Fetus
  - 1.6.3. Use and Management of Pharmaceuticals in Childbirth





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.

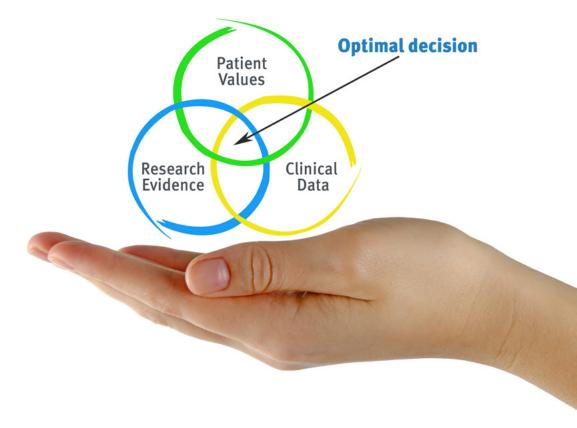


# tech 28 | Methodology

### 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 | 31 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**

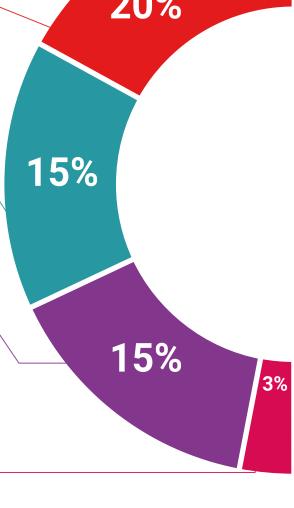
We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch them as many times as you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

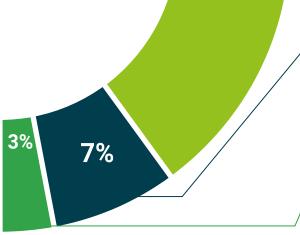
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



### **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.





20%

17%





# tech 36 | Certificate

This private qualification will allow you to obtain a **Postgraduate Certificate in Physiology of Labor 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** private qualification 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 Certificate in Physiology of Labor for Midwives

Modality: online

Duration: 6 weeks

Accreditation: 8 ECTS



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

### Postgraduate Certificate in Physiology of Labor for Midwives

This is a private qualification of 240 hour s of duration equivalent to 8 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 202  $\,^4$ 



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



# Postgraduate Certificate

# Physiology of Labor for Midwives

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Credits: 8 ECTS
- » Schedule: at your own pace
- » Exams: online

