



# Postgraduate Certificate

Newborns and Breastfeeding for Nursing

» Modality: online

» Duration: 12 weeks

» Certificate: TECH Global University

» Credits: 12 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/nursing/postgraduate-certificate/newborns-breastfeeding-nursing

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# tech 06 | Introduction

Considering the mother-child binomial as a fundamental principle in the development of postpartum care, nurses must have a thorough knowledge of the most important aspects of newborn care. This module covers all the characteristics of the healthy newborn as well as all the physiological changes and adaptations that occur in the first hours and days after birth. The content has been organized by devices and systems to facilitate understanding.

The early detection of risk situations in the neonate's adaptation to extrauterine life by carrying out diagnostic, control, referral and follow-up activities, and, if necessary, taking the appropriate emergency measures, is one of the main focuses of nursing.

Within this module, health education in relation to newborn care as well as the approach to the main reasons for consultation that parents demand in primary care occupies an important place. It is the nurse's role to provide adequate health education to women, family and community by identifying the learning needs in relation to maternal and child health and carrying out the different educational programs related to the detected needs.

It is important to clarify concepts and make recommendations from the perspective of evidence-based medicine. Given the heterogeneity of the information that reaches the pregnant woman, it is our job as professionals to promote and assist through proven and unified criteria. Through the topics included in this module, concepts on breast anatomy and physiology, breast milk development and its composition will be reviewed and reinforced. This module is focused on solving doubts regarding practical aspects of breastfeeding to ensure that it is effective in the different stages of the postpartum period and that it is always favored and promoted.

This program's objective is to give you the path you need to act with the certainty of the most up to date knowledge of the real, broad and concrete aspects of this intervention field of high relevance in the postpartum period.

This **Postgraduate Certificate in Newborns and Breastfeeding for Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- Practical cases presented by experts in Postpartum Nursing
- 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
- Latest advances in Postpartum Nursing
- Practical exercises where self assessment can be used to improve learning
- A special emphasis on innovative methodologies in the field of postpartum care
- 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



Get your tools up to date as an indispensable support to breastfeeding, with this exceptional program"



A high impact step for your career path that will enable you to work with the quality of a breastfeeding specialist as a nurse"

The teaching staff includes professionals from the field of Postpartum Nursing, who contribute their work experience to this 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 professionals must try to solve the different professional practice situations that arise throughout the program. For this purpose, the Professional will be assisted by an innovative Interactive Video System, developed by Renowned and Experienced Experts in postpartum

The best online resources that will allow you to combine your studies with your professional work in a comfortable, efficient and safe way.

You will have a rich syllabus, developed by a highly professional teaching staff, at your disposal so that you will be able to review and improve your professional skills.







# tech 10 | Objectives



# **General Objectives**

- Update and expand midwives' knowledge in the field of postpartum care in the hospital, health center and at home
- Obtain an integrated vision of the care required by women and their children during the postpartum period
- Understand the postpartum phase from a global and biopsychosocial point of view
- Facilitate the performance of midwives dedicated to women's and newborn care in the postpartum phase
- Help to provide quality postpartum care based on scientific evidence
- Contribute to midwives' decision-making process in difficult situations
- Have the tools to achieve a multidisciplinary management in postpartum nursing
- Acquire the professional competencies necessary to offer a quality and up to date healthcare practice
- Apply the knowledge obtained when solving problems that may arise in practical situations in healthcare





# **Specific Objectives**

- Improve knowledge related to the different newborn classifications based on the different established parameters
- Gain further knowledge on the adaptation of the different devices and systems of newborns in its extrauterine life
- Improve healthy newborn management and identify abnormal situations based on the general examination criteria
- Know and manage care required by newborns in different areas
- Design sessions for parents on how to care for their newborns
- Improve the management of the main reasons for parental consultation in nursing professionals' consultations on newborn problems
- Update the aspects related to the prevention of sudden infant death

- Identify the Importance of breastfeeding
- Expand knowledge of breast anatomy, breast milk formation and its properties
- Identify those situations in which breastfeeding is not recommended in order to avoid risky situations for newborns
- Assess the normal patterns of correct intake
- Enable nurses to provide simple, effective and evidence-based health education to mothers who wish to breastfeed
- Know the relationship between breastfeeding and mother-child bonding
- Update knowledge regarding the different techniques for extracting breast milk and the proper guidelines for its safe storage
- Have a broad understanding of the objectives and strategies of the IHAN within the National Health System



An opportunity created for professionals who are looking for an intensive and effective program to take a significant step forward in their profession"



# tech 14 | Course Management

# Management



# Ms. Grolimund Sánchez, Verónica

- Midwife in H.G.U. Gregorio Marañon General University Hospital, Madrid. Specialized in high risk pregnancy and childbirth
- Diploma in Nursing from the Autonomous University of Madrid
- Red Cross Nursing School
- Nursing Specialist in Obstetrics and Gynecology
- Professor in the Nursing Teaching Unit specializing in Obstetrics and Gynecology at H. G. U. Gregorio Marañón
- Teaching collaborator at H. G. U. Gregorio Marañón, tutoring and supervising EIR rotations in Family and Community Care
- Lecturer in the practical course on obstetric emergencies Obstetric Hemorrhage
- Nurse in special services such as emergency, URPA, ICU and neonatal ICU



# Ms. Pallarés Jiménez, Noelia

- Midwife. Gregorio Marañón University Hospital
- University Diploma in Nursing at the University of Zaragoza
- Specialty in Obstetric-Gynecological Nursing (Midwife) at the Midwifery Teaching Unit of Catalonia, University of Barcelona
- · Postgraduate degree in sexual health Educational and community intervention University of Lérida Foundation
- Collaborating professor of the Midwifery Resident Teaching Unit of the University Hospital Gregorio Marañón as an expert in the area of maternal and newborn nursing
- Midwife in Primary Care in Barcelona. Catalan Institute of Health
- Midwife at the Hospital Universitario Clínic de Barcelona
- Obstetrical-Gynecological Specialty at the Germans Trias i Pujol Hospital in Badalona as a Midwife Resident
- Nurse in the postpartum ward at the Miguel Servet University Hospital in Zaragoza

### **Professors**

# Mr. Burgueño Antón, Adrián

- Specialist in Gynecology and Obstetrics
- Supervisor in Maternal-Child Surgical Block at the University Hospital La Paz
- University Diploma in Nursing
- Master's Degree in Health Management
- Surgical Nurse: Obstetrics and gynaecology. La Paz University Hospital
- Nurse Specialist: Midwife La Paz University Hospital
- UAM Collaborating Professor
- Midwifery Resident Internship Tutor

# Ms. García Rodríguez, Laura

- Midwife in Fundación Jiménez Díaz Hospital
- Midwife at the Goya Health Center
- University Diploma in Nursing from E.U.E La Paz. Autonomous University of Madrid
- Expert in Emergency Nursing at FUDEN. Madrid
- Nurse specialist in Obstetrics and Gynecology at Hospital la Paz in Madrid. UD. Teacher in Madrid

# Ms. Gutiérrez Munuera, Marta

- Midwife. Infanta Leonor Hospital
- Diploma in Nursing from the Autonomous University of Madrid. Puerta De Hierro EUE Hospital
- Specialist in obstetrics and gynecology, Complejo Hospitalario Universitario of Albacete
- Midwife. Gregorio Marañón University Hospital
- Nurse at the Argüelles Specialty Center
- Nurse in hospitalization of traumatology and pneumology. Puerta De Hierro Hospital

# Ms. Hernando Orejudo, Isabel

- Midwife at the University Hospital San Carlos in Obstetric Emergency Units, Delivery Room, High Obstetric Risk, fetal physiopathology and breastfeeding
- IRN in Obstetric-Gynecological Nursing Midwifery Teaching Unit of Madrid, Hospital of San Carlos
- Outpatient Nurse at the University Hospital La Paz
- University Diploma in Nursing (DUE) University School of Nursing Puerta de Hierro.
   Autonomous University of Madrid
- Breastfeeding Consultant at the San Carlos Clinical Hospital
- Contributor in the implementation of the Obstetric Pain Guide at Hospital San Carlos
- Author of 'Protocolo de Atención al parto normal' en Hospital San Carlos

### Ms. López Collado, Irene

• Obstetric Gynecological Nurse

# Ms. Matesanz Jete, Consuelo

- Midwife. General Hospital of Segovia
- Midwife at Gregorio Marañón General University Hospital
- University Diploma in Nursing from the University of Alcalá, Spain
- Nurse specialized in Obstetrics and Gynecology
- Professional Master's Degree in Gender and Health, Rey Juan Carlos University
- Certified Naces Method Professional
- Teaching collaborator in the Ceuta Midwifery Teaching Unit. Gregorio Marañón

# tech 16 | Course Management

# Ms. Martín Jiménez, Beatriz

- Midwife in the delivery room and emergency obstetrics services at H.U. de Getafe
- University Diploma in Nursing Universidad de Alcalá de Henares
- Specialist in Obstetric-Gynecological Nursing, Midwifery Teaching Unit UAM (HGU Gregorio Marañón)
- Nurse in the Neonatology and Flying Satellite Units in H.U. Infanta Leonor
- Midwife in the services of Delivery Room, Emergency OG and Obstetric High-Risk Hospitalization in H.G.U. Gregorio Marañón
- Teacher in postgraduate training Obstetrics and Gynecology Nurse Practitioners and Pediatrics Nurse Practitioners

### Ms. Ramírez Sánchez-Carnerero, Rosa María

- Midwife at the Hospital Virgen de Altagracia de Manzanares
- University Diploma in Nursing (D.U.E. University School of Nursing of Ciudad Real. University of Castilla-La Mancha. (UCLM)
- Obstetric Gynecological Nurses: Midwife. Catalonia Midwifery Teaching Unit
- Graduate in Social and Cultural Anthropology
- Master's Degree in Social and Health Research
- Resident midwife at the Midwifery Teaching Unit of Catalonia, Hospital Virgen de la Cinta, Tortosa
- Collaborating teacher at the midwifery teaching unit in Alcázar de San Juan (Ciudad Real)





# Course Management | 17 tech

### Ms. Sánchez Boza, Pilar

- Midwife at Gregorio Marañón University Hospital
- Diploma in Nursing from the Pontificia de Comillas University of Madrid
- Professional Master's Degree in Humanitarian Health Aid from the University of Alcalá de Alcalá de Henares
- Postgraduate Diploma in Emergencies and Emergencies accredited by the School of Health Sciences University Center attached to the Complutense University of Madrid
- Attending professor at Universidad Europea as a professor of the subject "Women's Care" and assistant professor in adult care II, child and adolescent care in the Nursing Degree
- Midwife in Mauritania with Rotary Club in humanitarian aid project
- Sex Coach at Fundación Sexpol (sex education talks), university centers (Universidad de Alcalá de Henares and Universidad Europea de Madrid) and health centers (Espronceda, Villablanca)
- Speaker at annual conferences against gender violence for SUMMA

# Ms. Triviño de la Cal, Cristina

- Specialist in Obstetrics and Gynecology at Gregorio Marañón Hospital
- University Diploma in Nursing at Universidad Autónoma de Madrid, Madrid
- Lecturer at the I Conference for Midwives: approach and care in bereavement and loss in the life cycle of women, organized by FUDEN
- Teacher in the physiological childbirth workshop given to the Obstetrics team of the Hospital Universitario de Getafe
- Teacher in workshop accredited for professionals by the Laín Entralgo Agency in "Perinatal Bereavement Support" in hospitals in Madrid, Ávila, Salamanca, Segovia, Valladolid and Palma de Mallorca
- Teacher at the Gregorio Marañón and Salamanca Units





# tech 20 | Structure and Content

# Module 1. Newborns

- 1.1. Introduction to Neonatology: Concept and Classification
  - 1.1.1. Neonatology Periods
  - 1.1.2. Classification of Newborns: By Birthweight or Gestation Period
  - 1.1.3. Classification of At-Risk Newborns
  - 1.1.4. Gestational Age Identification: The Farr Method and The Dubowitz Method. The Capurro Method and the Ballard Method
- 1.2. Adaptation to Extrauterine Life according to different Systems
  - 1.2.1. Respiratory Adaptation: First Breath.
  - 1.2.2. Cardiovascular Adaptation: Circulation, Hemoglobin and Coagulation. Ductus
    Arteriosus and Foramen Ovale Closure
  - 1.2.3. Newborn Thermoregulation
  - 1.2.4. Gastrointestinal
  - 1.2.5. Renal
  - 1.2.6. Hormonal and Immunological
  - 1.2.7. Hepatic and Glucose Metabolism
- 1.3. Immediate Newborn Care: Midwifery Care in the Immediate Postpartum Period
  - 1.3.1. Newborn Assessment: Apgar Score
  - 1.3.2. Prophylaxis
  - 1.3.3. Behavior Phases (Periods of Alertness, Adaptation and Rest, Search and Established Lactation)
  - 1.3.4. Skin to Skin
  - 1.3.5. Midwifery Care in the Immediate Postpartum Period
- 1.4. Newborn Physical Examination
  - 1.4.1. Skeletal System
  - 1.4.2. Skin and Subcutaneous Tissue
  - 1.4.3. Cardiorespiratory System
  - 1.4.4. Abdomen
  - 1.4.5. Thorax
  - 1.4.6. Genitourinary System
  - 1.4.7. Upper and Lower Extremities
  - 1.4.8. Neurology

- 1.5. Newborn Care
  - 1.5.1. Hygiene and Bathing
  - 1.5.2. The Umbilical Cord
  - 1.5.3. Urination and Meconium
  - 1.5.4. Attire
  - 1.5.5. Pacifier
  - 1.5.6. Hospital Visits
  - 1.5.7. Nutrition
- 1.6. Newborn Thermal Regulation and Physical Environment
  - 1.6.1. Newborn Temperature Regulation
  - 1.6.2. Newborn Heat Production
  - 1.6.3. Newborn Heat Loss
  - 1.6.4. Heat Loss Prevention Methods
  - 1.6.5. Consequences of Thermal Changes on Newborns
  - 1.6.6. Importance of the Physical Environment: Exposure to Light, Day-Night Rhythm, Noise and Tactile Stimuli
- 1.7. Common Reasons for Consultation
  - 1.7.1. Crying
  - 1.7.2. Milk Allergy
  - 1.7.3. Gastroesophageal Reflux
  - 1.7.4. Delayed Vomiting
  - 1.7.5. Inquinal Hernia
  - 1.7.6. Hemangiomas
  - 1.7.7. Lacrimal Stenosis and Lacrimal Occlusion
  - 1.7.8. Sleep
- 1.8. Screening and Parameters of Neonatal Development and Growth
  - 1.8.1. Metabolic, Auditory and Visual Screening
  - 1.8.2. Growth Parameters (Weight, Lengths and Perimeters)
  - 1.8.3. Development Parameters

- 1.9. Common Problems
  - 1.9.1. Metabolic Dysfunctions: Hypoglycemia and Hypocalcemia
  - Respiratory Problems: Hyaline Membrane Disease, Apnea, Transient Tachypnea, Meconium Aspiration Syndrome
  - 1.9.3. Hyperbilirubinemia: Physiological, Pathological and Kernicterus
  - 1.9.4. Gastroesophageal Reflux: Infantile Colic.
  - 1.9.5. Febrile Seizures
- 1.10. Prevention of NB Accidents: Prevention of Sudden Death

# Module 2. Breastfeeding

- 2.1. Anatomy
  - 2.1.1. Embryonic Development
  - 2.1.2. Mature Mammary Glands
  - 2.1.3. Mammary Glands in Pregnancy
  - 2.1.4. Mammary Glands in Lactation
- 2.2. Physiology of Lacteal Secretion
  - 2.2.1. Mammogenesis
  - 2.2.2. Lactogenesis I and II
  - 2.2.3. Lactogenesis III/Lactopoiesis
  - 2.2.4. Endocrine Control of Lactic Secretion
- 2.3. Breast Milk Composition
  - 2.3.1. Milk Types and Composition
  - 2.3.2. Comparison between Colostrum-Ripened Milk and Cow Milk
- 2.4. Effective Breastfeeding
  - 2.4.1. Signs of a Good Grip
  - 2.4.2. Newborn Normal Patterns: Micturition, Stool and Weight Gain
- 2.5. Latch Assessment
  - 2.5.1. LATCH Score
  - 2.5.2. European Union Observations on Latching
  - 2.5.3. Breastfeeding Postures

- 2.6. Nutrition and Supplementation
  - 2.6.1. Maternal Nutrition and Supplementation
  - 2.6.2. Supplementation for Newborns 2017 Clinical Practice Guideline Recommendations
- 2.7. Breastfeeding Contraindications
  - 2.7.1. Maternal Complications
  - 2.7.2. Newborn Complications
  - 2.7.3. Pharmacological Suppression
- 2.8. Breastfeeding and Bonding
  - 2.8.1. Skin to Skin: The Importance of the First Hours after Birth
  - 2.8.2. Co-Sleeping
    - 2.8.2.1. Benefits
    - 2.8.2.2. Guidelines for Safe Co-Sleeping
  - 2.8.3. Tandem Breastfeeding
- 2.9. Milk Extraction and Preservation
- 2.10. Weaning Initiative for the Humanization of Childbirth and Breastfeeding (HCB)



A very comprehensive syllabus that incorporates all the knowledge that professionals who intervene with pregnant mothers and their babies need to master in order to intervene safely and successfully"



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.

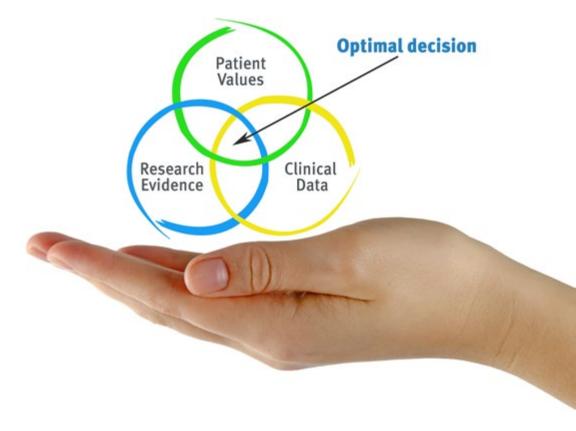


# tech 24 | Methodology

# 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 | 27 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**

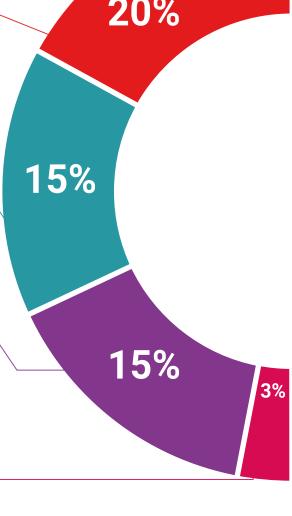
We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch them as many times as you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



# **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

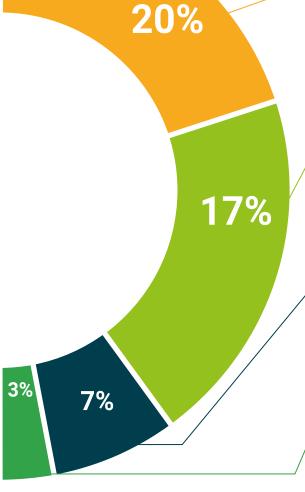
There is scientific evidence suggesting that observing third-party experts can be useful.

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.







# tech 32 | Certificate

This program will allow you to obtain your **Postgraduate Certificate in Newborns and Breastfeeding for Nursing** 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 Certificate in Newborns and Breastfeeding for Nursing

Modality: online

Duration: 12 weeks

Accreditation: 12 ECTS



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

# Postgraduate Certificate in Newborns and Breastfeeding for Nursing

This is a program of 360 hours of duration equivalent to 12 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 Ia 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 information tutors guarantee accreditation teaching institutions technology learning



# Postgraduate Certificate Newborns and Breastfeeding for Nursing

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- » Exams: online

