

Postgraduate Diploma Neonatal Disorders





Postgraduate Diploma Neonatal Disorders

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 24 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-neonatal-disorders

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01

Introduction

The therapies applied in the field of neonatology based on scientific evidence and a strong component of therapeutic rationality have allowed an increase in the survival of premature babies or babies with disorders at birth. In this sense, this specialty has acquired great relevance, leading specialists to be constantly up to date. As such, in order to promote this update in the main conditions of this type of patients, TECH has designed this 100% online program, which will take the professional in just 6 months to perform an intensive journey of heart disease, sepsis, neurological and digestive disorders. All this, in addition to multimedia teaching tools and clinical cases, provided by an excellent team of experts in this field.





“

Get updated with TECH on the main Neonatal Disorders and get up to date in only 6 months"

The evolution of the Neonatology Units in recent years is in line with the relevance of this area for patient survival and the work carried out in the field of scientific research. In this sense, early detection and treatment of certain Neonatal Disorders are fundamental for the improvement of the patient's prognosis.

Therefore, it is essential for the specialist to be aware of the most recent scientific studies that delve into the etiology, diagnosis and approach to necrotizing enterocolitis, hypoxic-ischemic encephalopathy and hypothermia or heart rhythm disorders, among others. In this line, this Postgraduate Certificate in Neonatal Disorders, which offers specialists a complete update in this field from the hand of a faculty that has developed an advanced and rigorous syllabus.

A program that will lead the graduate to be aware of the most relevant advances in the management of patients with Neonatal Shock, Congenital Heart Disease or Neurological examination in newborns. In addition, through video summaries of each topic, videos in detail, clinical case studies or essential readings, students will be able to delve into the most important Digestive Disorders, as well as the Nutrition factor, including breastfeeding or the indication for the use of probiotics.

Likewise, thanks to the *Relearning* method, based on the reiteration of the most important content, the physician will advance through the program in a natural way, consolidating it in a simple manner and thus reducing the long hours of study so frequent in other academic systems.

In addition, the absence of attendance and classes with fixed schedules provides greater freedom of access to the curriculum and allows the reconciliation of professional and personal daily activities with a quality university program.

This **Postgraduate Certificate in Neonatal Disorders** 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 Pediatrics and Neonatology
- The graphic, schematic and practical contents with which it is conceived provide scientific and practical information on those 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



A university certification that adapts to your schedule and allows you to reconcile your professional activities with a quality education"

“

The multimedia pills and clinical case studies will allow you to obtain a much more direct and closer vision of the approach to the neonate with Digestive Disorders"

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

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

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

You will be aware of the most effective procedures for the stabilization of the neonate who has suffered a Sepsis.

A program in which you will comfortably delve from hypoxic-ischemic encephalopathy to the meaning and expression of neonatal seizures.



02 Objectives

The purpose of this Postgraduate Certificate is to provide in 720 teaching hours, an effective update on the main Neonatal Disorders. In this way, the professional will be able to integrate into his daily practice the most significant advances in procedural and therapeutic methodology in patients with cardiac, digestive, neurological or sepsis problems. To this end, TECH provides students with first class teaching resources, developed by real experts in the field.





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Get a comprehensive overview of the latest scientific research on neonatal seizures and their treatment"



General Objectives

- Understand the key aspects of early neonatal assessment
- Analyze the anatomic and physiologic conditions of the neonate
- Master appropriate neonatal admission and transport procedures
- Determine neonatal resuscitation and thermal management techniques
- Develop strategies to prevent and treat hypothermia and pain
- Investigate neonatal respiratory and cardiovascular pathologies
- Address neurological and metabolic disorders in neonatology
- Define infections and hematologic disorders in neonatology
- Evaluate renal and neonatal immunity disorders
- Apply new technologies to improve neonatal care



Obtain through this program, the latest information on the diagnosis and treatment of patients with Necrotizing Enterocolitis"





Specific Objectives

Module 1. Neonatal Shock and Sepsis; Cardiovascular Diseases and Congenital Heart Diseases in Neonatology

- ♦ Examine in detail the treatment and management of early neonatal sepsis
- ♦ Identify clinical aspects and treatment of late neonatal sepsis
- ♦ Differentiate pathophysiology and phases of Neonatal Shock
- ♦ Select the treatment of Neonatal Shock and its efficacy
- ♦ Study in depth persistent Pulmonary Hypertension and Patent Ductus Arteriosus
- ♦ Classify Neonatal Congenital Heart Diseases, including Cyanosis

Module 2. Neurological Disorders in Neonatology; Neonatal Endocrinology, Dysmorphology and Oncology

- ♦ Assess the diagnosis and treatment of neonatal Seizures
- ♦ Analyze the pathophysiology and diagnosis of Hypoxic-Ischemic Encephalopathy
- ♦ Identify Microcephaly and the approach to neonatal etiological diagnosis
- ♦ Analyze specific neurological pathology in premature babies
- ♦ Define Hypopituitarism and Thyroid disorders in newborns
- ♦ Evaluate different neonatal oncologic screening and management techniques

Module 3. Digestive Disorders and Nutrition in Neonatology

- ♦ Approach neonatal nutrition and digestive pathology from a general perspective
- ♦ Differentiate the role of probiotics and prebiotics in Neonatology
- ♦ Analyze necrotizing Enterocolitis in premature babies: diagnosis and treatment
- ♦ Evaluate the diagnoses and treatments for necrotizing Enterocolitis in newborns
- ♦ Distinguish complications and prevention of necrotizing Enterocolitis in newborns
- ♦ Assess nutrition, parenteral and oral feeding in premature babies

Module 4. Neonatal Infections

- ♦ Master preventive measures to control neonatal nosocomial infections
- ♦ Analyze comprehensive approaches to diagnose and treat neonatal meningitis
- ♦ Assess management strategies for skin infections in neonates
- ♦ Evaluate clinical methods for addressing infections of the musculoskeletal system
- ♦ Structure methods of diagnosis and treatment of neonatal urinary tract infections
- ♦ Appropriately address the diagnosis of TORCH complex infections

03

Course Management

The high level of clinical and research competencies of the teaching staff of this program has been a determining factor for its inclusion in this Postgraduate Diploma. Therefore, graduates will have an excellent team of specialists in Neonatology, with accumulated experience in the care and approach of the main pathologies in this type of patients. In addition, thanks to their proximity students will be able to resolve any doubts that may arise regarding the content of this complete program.



“

TECH has brought together an exceptional faculty in the field of Neonatology and in the approach to Congenital Heart Disease and Neurological Disorders"

Management



Dr. Baca Cots, Manuel

- ♦ Head of the Pediatrics and Neonatology Service at Hospital Quirón Málaga
- ♦ Head of Neonatology at Hospital Clínica Dr. Gálvez
- ♦ Head of Neonatology at Hospital Qurón of Murcia
- ♦ Head of Andalusian Health Service (SAS)
- ♦ Lead researcher of international multi-center projects
- ♦ Degree in Medicine from the University of Granada

Professors

Dr. Jiménez Alcántara, Carolina

- ♦ Medical Specialist in Pediatrics at the Regional University Hospital of Malaga
- ♦ Subspecialist in Pediatric Endocrinology
- ♦ Medical Specialist at Quirónsalud Hospital
- ♦ Pediatrician at Santa Ana Hospital
- ♦ Basic Pediatrics Primary Care Team (EBAP)
- ♦ Degree in Medicine from the University of Málaga

Dr. Valverde, Eva

- ♦ Head of the Neonatology Department at La Paz University Hospital
- ♦ Neonatologist at the Neonatology Department of La Paz University Hospital
- ♦ Specialist in Pediatrics at La Paz University Hospital
- ♦ Doctorate in Medicine from the Autonomous University Madrid
- ♦ Degree in Medicine from the Complutense University of Madrid
- ♦ Member of: European Working Group on Neonatal Ultrasonography of the Brain (EUruS. Brain)

Dr. Ramón Salguero, José Manuel

- ◆ Director of Pediatrics in the Andalusian Health Service
- ◆ Specialist in the Unit of Pediatrics at the Regional University Hospital Carlos Haya
- ◆ Degree in Medicine from the University of Granada

Dr. Ruiz Ramos, María José

- ◆ Attending Pediatrician at Quirón Hospital
- ◆ Specialist in the Pediatrics Unit
- ◆ Expert in Continuous Brain Monitoring
- ◆ Degree in Medicine from the University of Málaga, specialized in Pediatrics

Dr. García Sánchez, Rubén

- ◆ Responsible for Neonatal Infectious Diseases at the University Hospital of Salamanca
- ◆ Neonatologist Specialist at the University Hospital of Salamanca
- ◆ Member of the Recognized Research Group GIR of the IBSAL "Vaccine Research"
- ◆ Member of several national and international networks of Pediatric and Neonatal Research

Dr. Rojas Fajardo, Cielo Carolina

- ◆ Pediatrician at the Hospital Quirónsalud Málaga
- ◆ Assistant Physician in Pediatric Electrophysiology
- ◆ Specialist in the Infant Cardiology Unit
- ◆ Specialist in Pediatrics and Child Care University Hospital of Caracas Central University of Venezuela
- ◆ Degree in Medicine from the Central University of Venezuela

Dr. Pérez, Maribel

- ◆ Neonatologist at the Neonatal Unit of Quirón Salud Hospital of Málaga
- ◆ Pediatric Critical Care Transport
- ◆ Degree in Medicine from the University of Granada



A unique, key and decisive learning experience to boost your professional development"

04

Structure and Content

Throughout the 6 months of duration of this university program, the graduate will complete a full refresher course on the main Neonatal Disorders. In this way, they will go deeper into Cardiovascular Disorders and Congenital Heart Disease, Neonatal Sepsis, Neurological Disorders and Digestive Disorders and Nutrition in this type of patients. This extensive syllabus is complemented by the Virtual Library with additional teaching material accessible at any time of the day, from an electronic device with an Internet connection.



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An academic itinerary that provides you with the update you are looking for in Neonatology under the utmost scientific rigor"

Module 1. Neonatal Shock and Sepsis; Cardiovascular Diseases and Congenital Heart Diseases in Neonatology

- 1.1. Early Neonatal Sepsis and Empirical Treatment of Early Sepsis
- 1.2. Late Onset Neonatal Sepsis
- 1.3. Basic Management of Late Onset Sepsis
- 1.4. Neonatal Shock
- 1.5. Pathophysiology of Neonatal Shock
- 1.6. Phases of Neonatal Shock and Specific Clinical Situations in the Neonatal Period
- 1.7. Treatment of Neonatal Shock
- 1.8. General Aspects of the Cardiovascular System; Physiology and Circulation; Prenatal Tachycardias
- 1.9. Persistent Pulmonary Hypertension (PPHN). Persistent Patent Ductus
- 1.10. Classification of the Congenital Heart Diseases: Cyanotic Heart Disease and the Aortic Arch

Module 2. Neurological Disorders in Neonatology; Neonatal Endocrinology, Dysmorphology and Oncology

- 2.1. Clinical Presentation of Seizures and Their Diagnosis. Definition, Classification and Semiology of Seizures. Treatment of Neonatal Seizures
- 2.2. Introduction Hypoxic-Ischemic Encephalopathy. Pathophysiology and Phases of Hypoxic-Ischemic Brain Injury. Diagnosis of Perinatal HIE Supportive Treatment
- 2.3. Microcephaly. Definition and Approach to Etiological Diagnosis and Evaluation of the Newborn with Hypotonia. Advances in the Approach to Etiological Diagnosis.
- 2.4. Neurological Pathology of Premature Babies
- 2.5. Congenital Hypopituitarism
- 2.6. Newborn with Thyroid Disorders
- 2.7. Different Types of Screening for the Different Metabolopathies. Criteria for Including a Metabolopathy in Neonatal Screening
- 2.8. Screening Techniques: Handling During the Heel Prick Test
- 2.9. Chromosopathy and Study of Chromosomal Abnormalities
- 2.10. General Aspects of Neonatal Oncology; Neuroblastoma



Module 3. Digestive Disorders and Nutrition in Neonatology

- 3.1. General Information about Nutrition and Pathology of the Digestive System
- 3.2. Probiotics and Prebiotics
- 3.3. Digestive Pathology of Premature Babies: Necrotizing Enterocolitis
- 3.4. Diagnosis of Necrotizing Enterocolitis
- 3.5. Treatment of Necrotizing Enterocolitis
- 3.6. Complications and Prevention of Necrotizing Enterocolitis
- 3.7. Nutrition of the Premature Infant
- 3.8. Parenteral Feeding of Premature Babies
- 3.9. Breast Milk in Premature Babies
- 3.10. Oral Feeding of Premature Babies

Module 4. Neonatal Infections

- 4.1. Nosocomial Infections
- 4.2. Meningitis
- 4.3. Skin Infections
- 4.4. Infections of the Locomotor System
- 4.5. Urinary Infections
- 4.6. TORCH Complex Infections
- 4.7. Respiratory Infections
- 4.8. The Laboratory and Neonatal Infections
- 4.9. Treatment
- 4.10. New Neonatal Infections Emerging in the 21st Century

“ *Delve into the proper nutritional management of newborn patients with cardiovascular or respiratory problems in this university qualification”*

05

Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



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TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

The student: the priority of all TECH programs

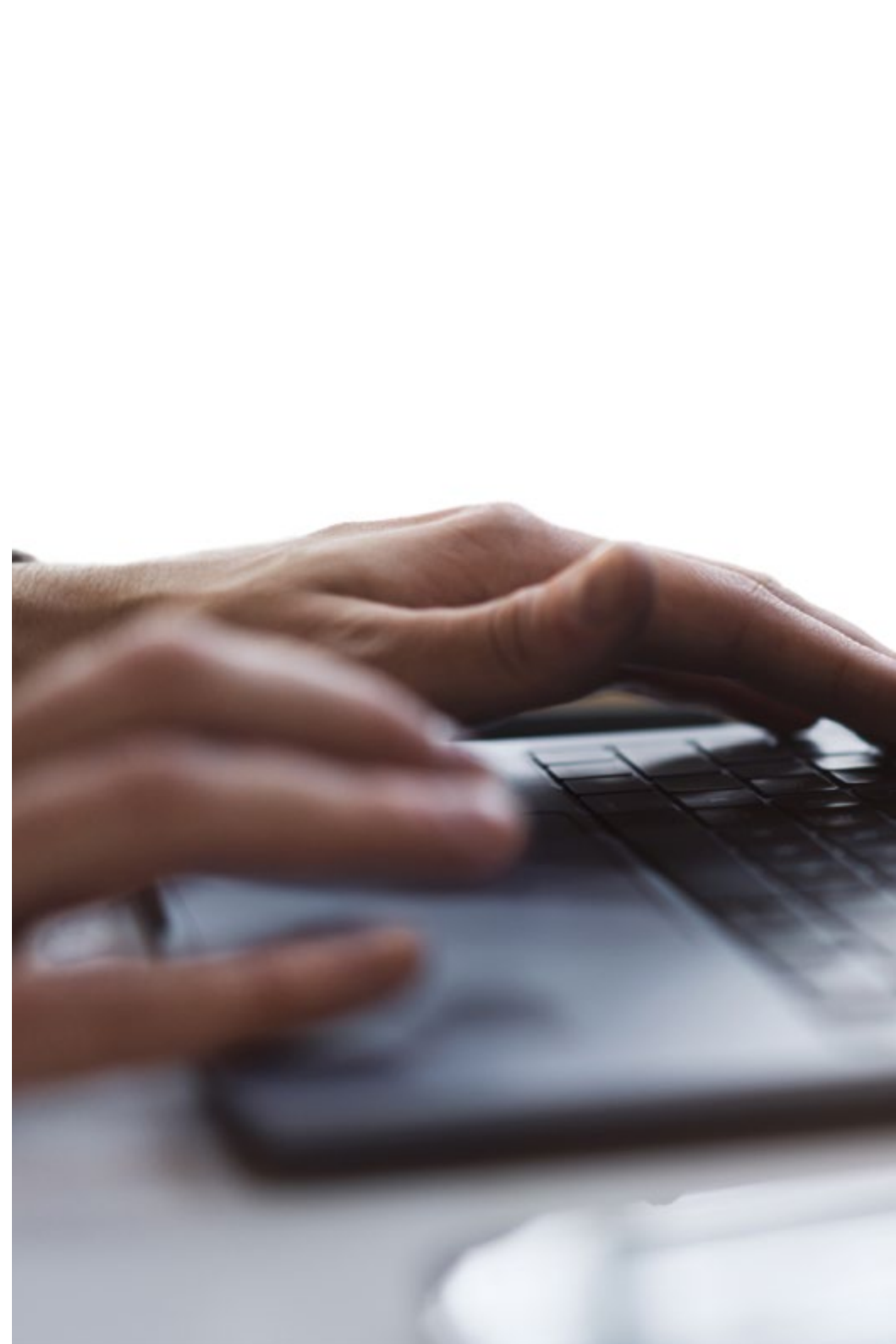
In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

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*At TECH you will NOT have live classes
(which you might not be able to attend)”*



The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

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TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want”

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.



A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule”

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 assess 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.

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the quality of teaching, quality of materials, course structure and objectives is excellent. Not surprisingly, the institution became the best rated university by its students on the Trustpilot review platform, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.



As such, the best educational materials, thoroughly prepared, will be available in this program:



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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

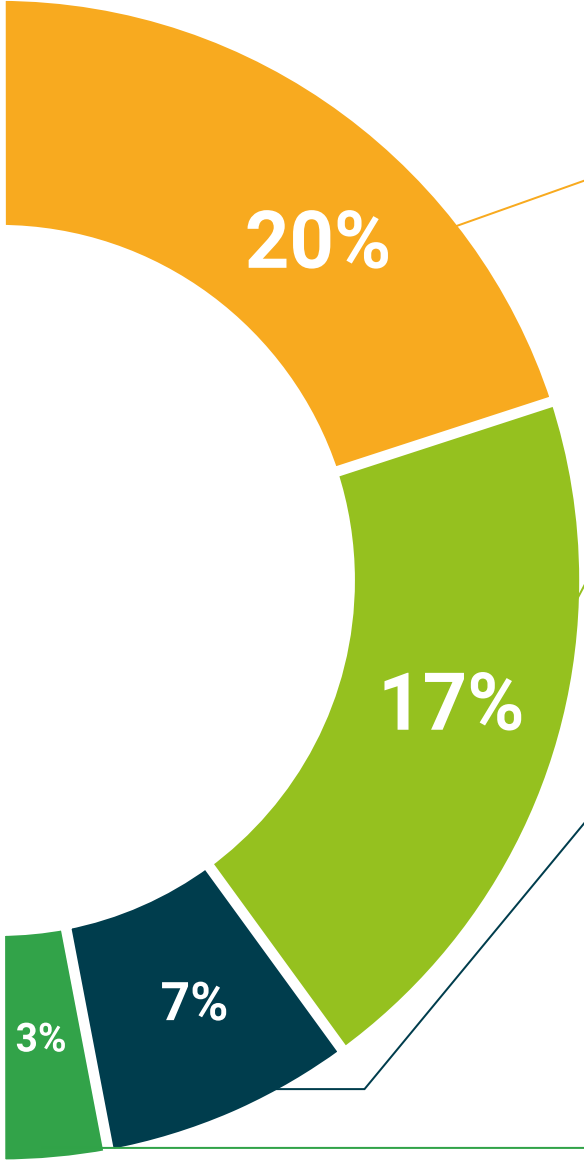
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





Case Studies

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.



Testing & Retesting

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.



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 for 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 Diploma in Neonatal Disorders guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Global University.



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

This private qualification will allow you to obtain a **Postgraduate Diploma in Neonatal Disorders** endorsed by **TECH Global University**, the world's largest online university.

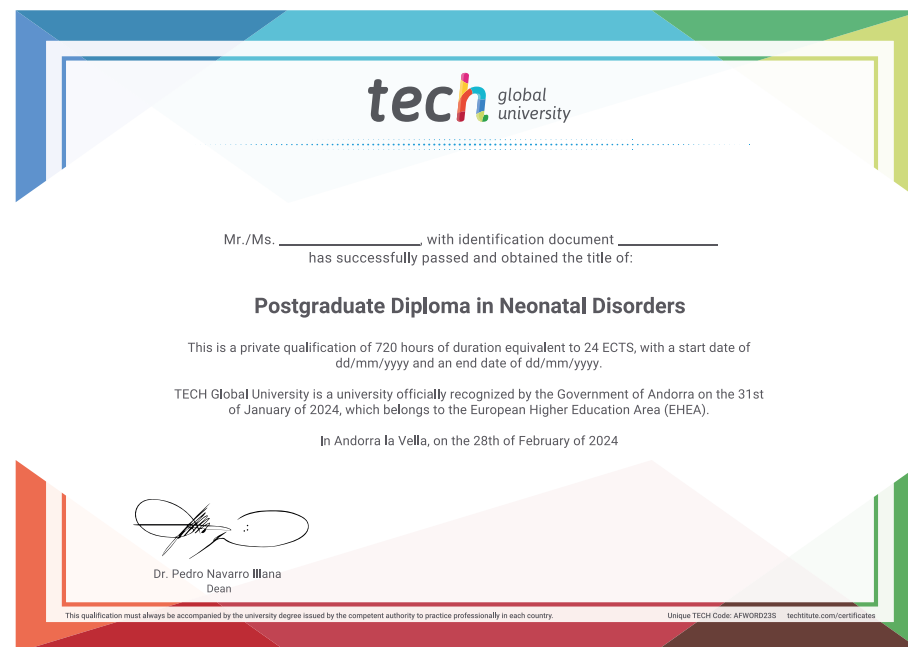
This **TECH Global University** private qualification, is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Neonatal Disorders**

Modality: **online**

Duration: **3 months**

Accreditation: **24 ECTS**



*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.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present quality
development language
virtual classroom



Postgraduate Diploma Neonatal Disorders

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 24 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Diploma Neonatal Disorders

