

# Postgraduate Certificate

## Hematology Patients in Nursing





## Postgraduate Certificate Hematology Patients in Nursing

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

Website: [www.techtute.com/us/nursing/postgraduate-certificate/hematology-patients-nursing](http://www.techtute.com/us/nursing/postgraduate-certificate/hematology-patients-nursing)

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# 01

# Introduction to the Program

Care for hematology patients requires specialized skills and a multidisciplinary approach, due to the complexity and severity of the associated diseases. According to a study published in the *Journal of Healthcare Quality Research*, 96% of experts agree that hematology nurses should have specific education to ensure comprehensive management of these patients. Furthermore, the implementation of unified protocols and the integration of this field into the patient care flow are key aspects for improving the effectiveness and efficiency of care. Within this framework, TECH has created a 100% online program, designed with the flexibility necessary to adjust to the professional and personal commitments of employees, using the innovative Relearning methodology, a distinctive feature of this institution.





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*With this 100% online Postgraduate Certificate, you will gain specialized knowledge about the physiology, pathology and treatment of hematologic diseases, offering more effective and precise care”*

Nursing care for hematology patients covers several key areas, such as specialized staff training, pain management, infection prevention and psychosocial support. In fact, proper pain management is essential, allowing for continuous assessment and the use of pharmacological and non-pharmacological strategies. In turn, hematology patients, due to their compromised immune system, require strict isolation measures to prevent nosocomial infections.

This is how this Postgraduate Certificate came about. Nurses will acquire fundamental knowledge about the biological processes involved in the formation and functioning of blood, red blood cells, white blood cells, platelets and the organs responsible for their production, such as the bone marrow. In addition, alterations and diseases related to hematopoiesis will be addressed, which will allow for an understanding of the basis of hematologic diseases and their impact on patients' health.

Likewise, professionals will be able to identify and describe the main hematologic diseases, both malignant and non-malignant, that affect pediatric and adult patients. In this sense, it will delve into disorders such as Leukemia, Lymphoma, Anemia and Coagulation Disorders, analyzing their symptoms, diagnosis and treatment.

Finally, experts will be qualified in the interpretation of the results of diagnostic and laboratory tests related to Hematology, which is essential for the planning and execution of an adequate care plan. Likewise, they will know how to plan and execute individualized care, taking into account the physical, emotional and psychological needs of the patients.

In this way, TECH has designed an educational program of excellence, totally online, which will allow graduates to access all the teaching resources through an electronic device with an Internet connection. This will eliminate obstacles such as traveling to on-site centers or the rigid nature of fixed schedules. In addition, it will incorporate the revolutionary Relearning methodology, based on the strategic repetition of key concepts to guarantee effective and dynamic learning.

This **Postgraduate Certificate in Hematology Patients in Nursing** 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 with a deep knowledge of detection and intervention techniques in Hematology Nursing, which facilitate the work of nurses in clinics, hospitals and other healthcare centers
- ♦ The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable 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



*You will apply advanced nursing techniques for the management of symptoms and side effects derived from complex hematological treatments, such as chemotherapy and bone marrow transplantation"*

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*The combination of theory and practice will allow you to approach the care of hematology patients in a comprehensive way, promoting quality of life and well-being during their treatment. With all quality guarantees!”*

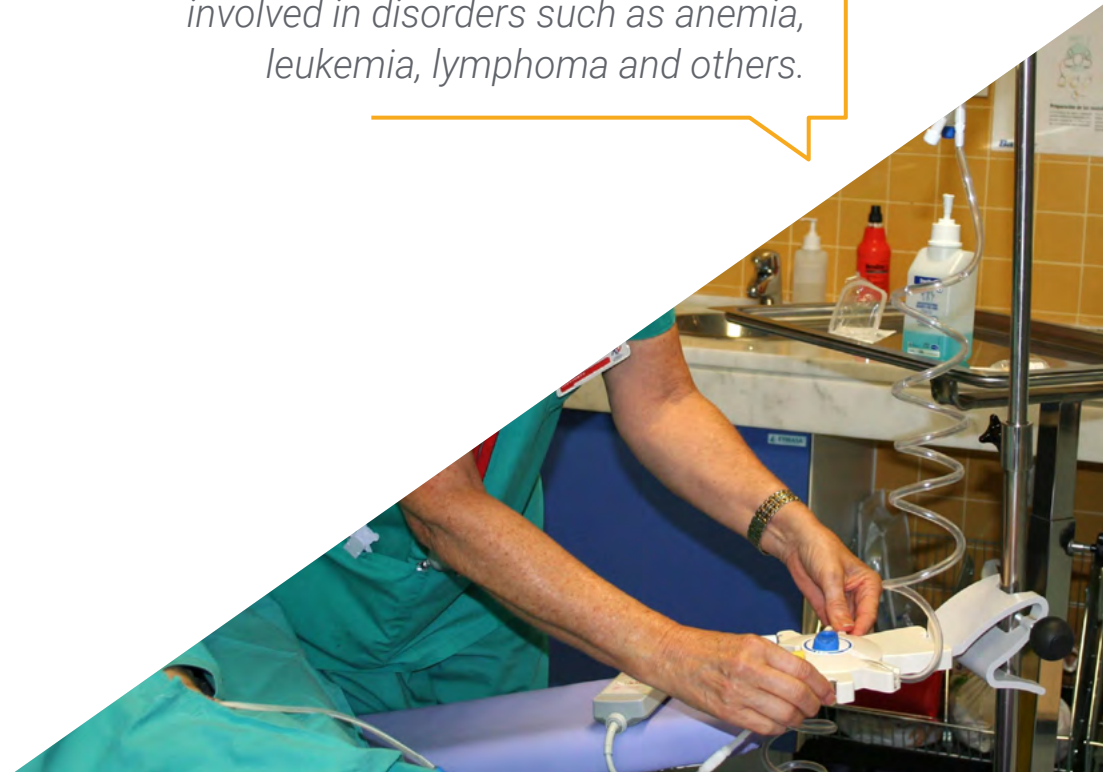
The program's teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

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 prepare for 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 qualified to carry out complete and accurate clinical assessment of patients with hematologic disorders, enabling early diagnosis and effective intervention in the care of these patients.*

*You will investigate the functioning of the hematological system, from the production of blood cells in the bone marrow to the physiological processes involved in disorders such as anemia, leukemia, lymphoma and others.*





02

# Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it relies on an enormous faculty of more than 6,000 professors of the highest international renown.





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*Study at the world's largest online university  
and guarantee your professional success.  
The future starts at TECH”*

**The world's best online university, according to FORBES**

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

**Forbes**  
The best online university in the world

The most complete  
**syllabus**

**The most complete syllabuses on the university scene**

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

**The best top international faculty**

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

**TOP**  
international faculty

The most effective methodology

**A unique learning method**

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

**The world's largest online university**

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.

**World's No.1**  
The World's largest online university

**The official online university of the NBA**

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

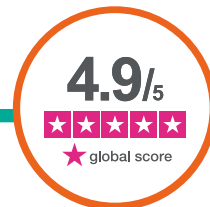
**Leaders in employability**

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.



**Google Premier Partner**

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.



**The top-rated university by its students**

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.





# 03 Syllabus

The syllabus has been designed to provide comprehensive and specialized education in the management of patients with hematological disorders, including the physiology and pathology of blood, hematopoietic organs and the mechanisms underlying the main hematologic diseases, both malignant and non-malignant. They will also gain in-depth knowledge of the identification and diagnosis of common hematologic diseases in adults and children, as well as the interpretation of essential diagnostic and laboratory tests. Likewise, nurses will be able to carry out complete clinical assessments, develop individualized care plans and apply advanced nursing techniques.



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*Bet on TECH! You will focus on the identification and description of the main hematologic diseases, both malignant and non-malignant, that can affect pediatric and adult patients”*

## Module 1. Hematology Patients in Nursing

- 1.1. Hematologic Disease. Immune Reactions and Inflammation
  - 1.1.1. Hematologic Diseases
  - 1.1.2. Immune System in Hematologic Diseases
  - 1.1.3. Inflammatory Process in Hematologic Diseases
  - 1.1.4. Immune Reactions in Hematologic Diseases
  - 1.1.5. Inflammation in Hematologic Diseases
- 1.2. Hematological System Assessment
  - 1.2.1. Hematological System Physiology
  - 1.2.2. Blood Groups
  - 1.2.3. Key Signs and Symptoms in Emergencies
- 1.3. Alteration of Cell Growth: Cancer
  - 1.3.1. Molecular Basis of Cancer
  - 1.3.2. Cell Biology of Cancer
  - 1.3.3. Molecular and Cytogenetic Diagnostic Techniques
- 1.4. Erythrocyte Disorders
  - 1.4.1. Structure and Function of Erythrocytes
  - 1.4.2. Erythropoiesis
  - 1.4.3. Anemias, Polycythemia and Morphological and Functional Alterations of Erythrocytes
  - 1.4.4. Diagnosis and Assessment of Erythrocyte Disorders
- 1.5. Leukocyte Disorders
  - 1.5.1. Physiology and Function of Leukocytes
  - 1.5.2. Leukopenia, Leukocytosis and Leukocyte Neoplasms
  - 1.5.3. Diagnosis and Assessment of Leukocyte Disorders
- 1.6. Coagulation Disorders
  - 1.6.1. Coagulation Physiology
  - 1.6.2. Bleeding Disorders
  - 1.6.3. Thromboembolic Disorders
  - 1.6.4. Diagnosis and Assessment of Coagulation Disorders





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- 1.7. Nursing in the Hematology Department
    - 1.7.1. Treatment Protocol for Hematologic Diseases
    - 1.7.2. Specialized Care in Hematology
    - 1.7.3. Monitoring of Emergency Signs and Symptoms in Hematologic Diseases
  - 1.8. Assessment of Patients with Chronic Diseases: Pain
    - 1.8.1. Pain Assessment
    - 1.8.2. Impact of Pain on Quality of Life
    - 1.8.3. Pain Management
    - 1.8.4. The Role of Nursing in Pain Assessment and Management
  - 1.9. Adaptation and Coping with Hematologic Diseases
    - 1.9.1. Development of Positive Coping Mechanisms
    - 1.9.2. Support Networks and Effective Communication
    - 1.9.3. Adaptation to Lifestyle Changes
    - 1.9.4. Patient Education and Empowerment
  - 1.10. Pediatric Hematology. Non-Malignant and Malignant Diseases in Children
    - 1.10.1. Pediatric Hematology
      - 1.10.1.1. Diagnosis and Laboratory Tests
      - 1.10.1.2. Nursing Care
      - 1.10.1.3. Research and Advances
    - 1.10.2. Malignant Disease
      - 1.10.2.1. Childhood Leukemia
      - 1.10.2.2. Pediatric Lymphoma
      - 1.10.2.3. Solid Hematologic Tumors
      - 1.10.2.4. Management and Treatment of Malignant Disease
    - 1.10.3. Non-Malignant Disease
      - 1.10.3.1. Anemias
      - 1.10.3.2. Coagulation Disorders
      - 1.10.3.3. Autoimmune Diseases
      - 1.10.3.4. White Blood Cell Disorders

# 04

# Teaching Objectives

The main objective of the program is for nurses to gain an in-depth understanding of the physiology and pathology of blood and hematopoietic organs, as well as the main hematologic diseases, both malignant and non-malignant. They will also develop the skills to perform complete and accurate clinical assessments, interpret diagnostic and laboratory test results, and develop individualized care plans tailored to the needs of each patient. They will also be equipped with practical skills in the management of symptoms and side effects of hematological treatments, such as chemotherapy and bone marrow transplantation.





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*You will develop skills to carry out complete and accurate clinical assessments of patients with hematologic disorders, using the best teaching materials, at the academic and technological forefront”*





## General Objectives

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- ◆ Develop specific clinical skills in the management of hematology patients
- ◆ Generate specialized knowledge about hematology patients, from the prevention of diseases to their assessment, diagnosis and treatment

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*You will correctly interpret the results of diagnostic and laboratory tests for the management of patients with hematologic diseases, thanks to an extensive library of innovative multimedia resources”*





## Specific Objectives

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- ◆ Acquire fundamental knowledge of the physiology and pathology of blood and hematopoietic organs
- ◆ Identify and describe the main hematologic diseases, both malignant and non-malignant, in pediatric and adult patients
- ◆ Perform complete and accurate clinical assessments of patients with hematologic diseases
- ◆ Correctly interpret the results of hematology-related diagnostic and laboratory tests
- ◆ Plan and implement individualized care plans for patients with hematologic diseases
- ◆ Apply advanced nursing techniques for the management of symptoms and side effects of hematological treatments, such as chemotherapy and bone marrow transplantation



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.

“*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 teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, 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

# Teaching Staff

The teaching staff is made up of a multidisciplinary team of highly qualified experts in various areas of Hematology and Nursing. In fact, they have extensive clinical and academic experience in the treatment of hematologic diseases, such as Leukemia, Lymphoma and Coagulation Disorders, guiding graduates through the fundamental and advanced concepts of the discipline. In addition, the faculty includes nurses specialized in Critical Care, Oncology and Hematological Transplants, who will share their practical experience in the care of patients with complex treatments, such as chemotherapy and bone marrow transplantation.





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*The multidisciplinary approach of the lecturers will ensure comprehensive education, combining theory and practice with an up-to-date view of the best strategies for care, diagnosis and intervention in Hematology”*

## Management



### Ms. Moreno Rivera, Nerea

- Director of Nursing at the Ruber Juan Bravo University Hospital
- Director of Nursing at the HLA Inmaculada University Hospital
- Head of Quality and Environment at the HLA Inmaculada University Hospital
- Head of Environment at the HLA Moncloa University Hospital
- Pharmacy Supervisor at the HLA Moncloa University Hospital
- ICU Supervisor at the HLA Moncloa University Hospital
- QX Supervisor at the HLA Moncloa University Hospital
- Master's Degree in Digital Management and Innovation Nursing Care from the European University of Madrid
- Master's Degree in Out-of-Hospital Emergencies from FUDEN
- University Expert in Human Resources Management Nursing from the UNED
- University Expert in Forensic and Legal Nursing from the UNED
- Diploma in Nursing from the Pontifical University of Salamanca





## Professors

### Ms. Rial Zabala, María

- ◆ Nurse in the Oncohematology Inpatient Unit at the Ruber Juan Bravo Hospital
- ◆ Nurse at the Oncology Day Hospital at the Ruber Juan Bravo Hospital
- ◆ *Talent Beats* Program at Quirónsalud Hospitals
- ◆ University Course in Advanced Electrocardiography at the Francisco de Vitoria University
- ◆ University Course in Basic and Advanced Life Support at the Francisco de Vitoria University
- ◆ Degree in Nursing from the Francisco de Vitoria University

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

# 07 Certificate

The Postgraduate Certificate in Hematology Patients in Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate 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 Certificate in Hematology Patients in 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** 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 Hematology Patients in Nursing**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 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  
development languages  
virtual classroom



## Postgraduate Certificate Hematology Patients in Nursing

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