

# Postgraduate Diploma

## Nursing Care in the Hematology Department





## Postgraduate Diploma Nursing Care in the Hematology Department

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

Website: [www.techtute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-nursing-care-hematology-department](http://www.techtute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-nursing-care-hematology-department)

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# 01

# Introduction to the Program

Nursing Care in the Hematology Department is essential to guarantee comprehensive, high-quality care for patients with hematologic diseases. For this reason, specialized nurses play a crucial role in the management of venous catheters, ensuring that the right choice is made according to the patient's needs and the treatment to be received, as well as offering recommendations to prevent complications. Likewise, their participation in health education is essential, providing complementary information on how the disease and the treatment can affect the patient's life, promoting infection control. In this context, TECH has developed a completely online program, flexible to adapt to the work and personal schedules of the graduates, based on the revolutionary methodology Relearning, a groundbreaking approach at this institution.





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*With this 100% online Postgraduate Diploma, you will develop advanced skills in clinical assessment, the management of complex treatments, such as bone marrow transplantation, and the implementation of palliative care”*

Nursing Care in the Hematology Department is essential to guarantee comprehensive, high-quality care for patients with hematologic diseases. In fact, Hematology Nurses are part of multidisciplinary teams, participating in clinical sessions and collaborating closely with hematologists to offer personalized care adapted to the needs of each patient.

This is how this Postgraduate Diploma was developed, which will delve into the fundamental aspects of blood physiology and pathology, allowing the identification and treatment of the main hematological conditions in both adults and children. In addition, it will provide tools for accurate clinical assessments, interpreting laboratory results and planning individualized care that addresses both the medical and emotional needs of patients.

It will also focus on the prevention, diagnosis and treatment of hematological diseases, highlighting the role of nursing in risk reduction, early identification and proper management of diseases. Through the learning of advanced techniques and an evidence-based approach, professionals will acquire skills to evaluate conventional and cutting-edge treatments, including chemotherapies and bone marrow transplantations.

Finally, essential areas such as specific and palliative care will be addressed, providing knowledge to attend to both the physical and emotional needs of patients in advanced stages of the disease. In addition, skills will be developed to implement care strategies in complex situations, such as specialized nutrition, emergency management and support in advanced hematological treatments.

In this way, TECH has created a high-quality, 100% online educational program that only requires an electronic device with an Internet connection to access all the teaching materials, eliminating problems such as traveling to a physical center or the need to stick to a fixed schedule. In turn, it will use the innovative Relearning methodology, which focuses on the repetition of key concepts to guarantee an efficient and natural assimilation of the contents.

This **Postgraduate Diploma in Nursing Care in the Hematology Department** 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
- ♦ The availability of access to the contents from any fixed or portable device with an Internet connection



*Interdisciplinary collaboration will be promoted to guarantee a comprehensive approach and the adoption of safe practices in the handling of medications and the prevention of hematological infections. What are you waiting for to enroll?"*

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*Bet on TECH! You will emphasize the importance of planning and executing personalized care plans, taking into account the needs of each patient and the specific treatments they will undergo”*

The program's teaching staff includes professionals from the sector who contribute their work experience to this specializing 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 gain the necessary knowledge about the physiology and pathology of blood, as well as the main hematological diseases, both malignant and non-malignant, that affect pediatric and adult patients.*

*You will address the importance of prevention and education of the patient and their family, seeking to improve adherence to treatment and reduce the incidence of hematologic diseases in the population.*



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

Throughout the program, graduates will acquire fundamental knowledge of blood physiology and pathology, as well as the main hematologic diseases affecting pediatric and adult patients. Key aspects will also be addressed, such as the interpretation of diagnostic tests, the planning of individualized care, the management of advanced treatments, and emotional support for the patient and their family. In addition, you will delve into the prevention of hematologic diseases, the safe administration of medications, and interdisciplinary teamwork, providing tools to face the complexities in this field.





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*You will strengthen your skills in interdisciplinary collaboration, working with other health professionals to offer comprehensive care, through the best teaching materials, at the technological and educational forefront”*

## 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
- 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

**Module 2. Hematological Prevention, Diagnosis and Treatment in Nursing**

- 2.1. Prevention of Hematologic Diseases
  - 2.1.1. Environmental Factors
  - 2.1.2. Lifestyles: Stress Reduction. Diet
  - 2.1.3. Vaccines and Infection Prevention
  - 2.1.4. Periodic Medical Check-Ups. Early Symptom Detection
  - 2.1.5. Education and Awareness
  - 2.1.6. Genetic Counseling and Screening Tests
  - 2.1.7. Adequate Management of Chronic Diseases. Vulnerable Populations
- 2.2. Prevention of Hematologic Diseases
  - 2.2.1. Personal and Family History
  - 2.2.2. Reason for Consultation and Current Disease
  - 2.2.3. System Review
  - 2.2.4. Blood Transfusions and Medication
  - 2.2.5. Exposure to Risk Factors
  - 2.2.6. Physical Examination
- 2.3. Diagnostic Assessment: Medical Tests
  - 2.3.1. Laboratory Tests
  - 2.3.2. Bone Marrow Biopsy
  - 2.3.3. Bone Marrow Aspiration
  - 2.3.4. Genetic and Molecular Studies
  - 2.3.5. Imaging Tests
- 2.4. Interventions for Patients with Hematologic Disorders: Anemias
  - 2.4.1. Hereditary Anemias
  - 2.4.2. Acquired Anemias
  - 2.4.3. Hemolytic Anemias
- 2.5. Interventions for Patients with Hematologic Disorders: Leukaemias
  - 2.5.1. Acute Lymphoblastic Leukemia in Adults (ALL)
  - 2.5.2. Chronic Lymphocytic Leukemia (CLL)
  - 2.5.3. Acute Myeloid Leukemia (AML)
  - 2.5.4. Chronic Myeloid Leukemia (CML)
  - 2.5.5. Adult T-cell Leukemia (ATL)

- 2.6. Interventions for Hematology Patients: Coagulation Disorders
  - 2.6.1. Bleeding Disorders (Hypocoagulability)
  - 2.6.2. Thrombotic Disorders (Hypercoagulability)
  - 2.6.3. Mixed Coagulation Disorders
- 2.7. Management of Patients with Bleeding Disorders
  - 2.7.1. Assessment and Diagnosis
  - 2.7.2. Management of Hemorrhages
  - 2.7.3. Pharmacological Treatments
  - 2.7.4. Nursing Care in Bleeding Disorders
  - 2.7.5. Intervention in Special Situations
- 2.8. Hemotherapy. Allogeneic Hematopoietic Stem Cell Transplantation (Allo-HSCT)
  - 2.8.1. Hematopoietic Stem Cell Transplantation
  - 2.8.2. Donation and Collection Process
  - 2.8.3. Preparing the Patient for Transplantation
  - 2.8.4. Transplantation Procedure
  - 2.8.5. Complications and Post-Transplantation Management
  - 2.8.6. Nursing Care in Allogeneic Hematopoietic Stem Cell Transplantation
- 2.9. Therapies: Cytostatics, Radiotherapy, Immunotherapy
  - 2.9.1. Cytostatics
    - 2.9.1.1. Mechanisms of Action of Cytostatics
    - 2.9.1.2. Side Effects and Management of Cytostatics
    - 2.9.1.3. Cytostatic Administration Protocol
    - 2.9.1.4. Resistance to Cytostatics
    - 2.9.1.5. New Developments and Emerging Drugs
  - 2.9.2. Radiotherapy
    - 2.9.2.1. Treatment Planning
    - 2.9.2.2. Side Effects of Radiotherapy
    - 2.9.2.3. Radiotherapy in Hematology
  - 2.9.3. Immunotherapy
    - 2.9.3.1. Types of Immunotherapy
    - 2.9.3.2. Adverse Effects and Management
    - 2.9.3.3. Immunotherapy in Hematology

- 2.10. Pediatric Hematology
  - 2.10.1. Pediatric Hematology
  - 2.10.2. Hematologic Diseases in Pediatrics
  - 2.10.3. Diagnosis and Treatment of Hematologic Diseases
  - 2.10.4. Nursing Care in Pediatric Hematology

### Module 3. Hematology Nursing Care Plans

- 3.1. Drug Administration
  - 3.1.1. Routes of Administration of Chemotherapy and Immunotherapy
  - 3.1.2. Types of Chemotherapy and Immunotherapy
  - 3.1.3. Most Common Adverse Reactions
  - 3.1.4. Management of Cytostatic Extravasation
  - 3.1.5. Safe Preparation and Handling of Drugs
- 3.2. Administration of Blood Products
  - 3.2.1. Types of Blood Products
  - 3.2.2. Acute and Delayed Transfusion Reactions
  - 3.2.3. Special Considerations: Pediatric and Geriatric Patients and Patients with Cardiovascular Diseases
- 3.3. Nursing Approach to the Nutrition of Hematology Patients
  - 3.3.1. Changes in Intake
  - 3.3.2. Assessment of Nutritional Status
  - 3.3.3. Management of Digestive Disorders
  - 3.3.4. Nutritional Support: Enteral and Parenteral
- 3.4. Care of the Skin and Mucous Membranes in the Care Process
  - 3.4.1. Alterations of the Skin and Cutaneous Mucous Membranes
  - 3.4.2. Prevention and Management
  - 3.4.3. Psychosocial and Aesthetic Impact on Skin Disorders

- 3.5. Emergency Situations in Hematology Patients
  - 3.5.1. Immunological Complications
  - 3.5.2. Neutropenic Sepsis
  - 3.5.3. Hemorrhagic Complications
  - 3.5.4. Major Hemorrhage
  - 3.5.5. Severe Thrombocytopenia
  - 3.5.6. Acute Anemia
  - 3.5.7. Metabolic Complications
    - 3.5.7.1. Hypercalcemia
    - 3.5.7.2. Tumor Lysis Syndrome
  - 3.5.8. Vascular Complications
    - 3.5.8.1. Hyperleukocytosis
    - 3.5.8.2. Complications of Sickle Cell Disease
- 3.6. Hematopoietic Stem Cell Transplantation (HSCT)
  - 3.6.1. Differences between Autologous and Allogeneic HSCT. Types e Indicators
  - 3.6.2. Donor Selection and Inclusion Criteria
  - 3.6.3. Obtaining Hematopoietic Stem Cells. Mobilization and Apheresis
  - 3.6.4. Setting Up
  - 3.6.5. Stem Cell Infusion
  - 3.6.6. Post-Transplantation Phase: Follow-up and Care
- 3.7. Nursing Care in Hematopoietic Stem Cell Transplantation (HSCT)
  - 3.7.1. Pre-transplant Preparation and Conditioning
  - 3.7.2. Nursing Care During Stem Cell Infusion
  - 3.7.3. Management of Post-Transplantation Aplasia
  - 3.7.4. Complications in Stem Cell Transplantation
  - 3.7.5. Graft-Versus-Host Disease (GVHD)
  - 3.7.6. Complications Caused by the Toxicity of the Conditioning Treatment
  - 3.7.7. Infectious Complications
  - 3.7.8. Infection Prevention in Hematopoietic Stem Cell Transplantation
- 3.8. CAR-T Cell Therapy
  - 3.8.1. CAR-T Cell Therapy. Indications
  - 3.8.2. Therapy Process. Obtaining CAR-T Cells
  - 3.8.3. Possible Secondary Effects
  - 3.8.4. Challenges for the Future
- 3.9. Psychological Approach to CAR-T Cell Therapy
  - 3.9.1. Psychological Impact of Diagnosis and Treatment
  - 3.9.2. Interventions in the Psychological Approach
  - 3.9.3. Support as Part of the Holistic Process
- 3.10. Physical and Emotional Complications for the Patient and Family in CAR-T Cell Therapy
  - 3.10.1. Management of Chronic Pain and Fatigue
  - 3.10.2. Addressing Body Image Disturbances
  - 3.10.3. Preventing Burnout in the Primary Caregiver

## Module 4. Palliative Care for Patients with Hematological Cancer

- 4.1. Palliative Care for Terminally Ill Patients with Hematological Cancer
  - 4.1.1. Palliative Care for Terminally Ill Patients with Hematological Cancer
  - 4.1.2. Current Palliative Care
  - 4.1.3. Quality of Life in Palliative Care
- 4.2. Recurrence: Treatment Options for Hematological Cancer
  - 4.2.1. Types of Recurrence in Hematological Cancer
  - 4.2.2. Treatment Options for Recurrences in Hematological Cancer
  - 4.2.3. Palliative Care from the Onset of Recurrence to Manage Symptoms and Improve the Quality of Life of the Oncohematologic Patient
- 4.3. Comprehensive Nursing Plan for the Palliative Patient with Hematological Cancer
  - 4.3.1. Assessment of Physical Symptoms: Assessment, Control and Monitoring
  - 4.3.2. Emotional Appraisals
  - 4.3.3. Socio-Family, Cognitive, Functional and Spiritual Assessment
- 4.4. End of Life: Well-being and Dignity in the Patient with Hematological Cancer from the Nursing Service
  - 4.4.1. Difference between Palliative Care and Terminal Care
  - 4.4.2. Care in the Final Stage of Life. Compassionate Accompaniment
  - 4.4.3. Emotional and Spiritual Care
  - 4.4.4. Emotional and Bereavement Support for the Family

- 4.5. Scales for Assessing Palliative Needs in Children, Adolescents and Adults with Hematological Cancer
  - 4.5.1. Assessment Scales for Hematological Patients in Palliative Care
  - 4.5.2. Specific Tools for Symptom Assessment
  - 4.5.3. Assessment Adapted to Different Stages of Life
- 4.6. Nursing Care for Palliative Patients with Hematological Cancer
  - 4.6.1. Signs and Symptoms in the Terminally Ill Patient
  - 4.6.2. Pharmacological Approach in Palliative Care
  - 4.6.3. Non-Pharmacological Approach
- 4.7. Refractory Symptoms in Palliative Care in Patients with Hematological Cancer
  - 4.7.1. Refractory Symptoms and Other Common Symptoms
  - 4.7.2. Interventions and Management
  - 4.7.3. Care in the Hematological Context
- 4.8. Nursing Care during the Terminal Phase and the Situation in the Final Days of Patients with Hematological Cancer
  - 4.8.1. Agony Phase or Situation in the Final Days
  - 4.8.2. Palliative Sedation and Comfort Care
  - 4.8.3. Role of the Multidisciplinary Team
- 4.9. Palliative Care Services at Different Health Levels
  - 4.9.1. Evolution of Palliative Care Teams (PCTs)
  - 4.9.2. Care Network: Hospital versus Home Care
  - 4.9.3. Integration of Palliative Care in Primary, Secondary and Tertiary Care
- 4.10. Psychosocial Aspects of Palliative Care in Patients with Hematological Cancer
  - 4.10.1. Impact on the Family and Caregivers of Patients with Hematological Cancer
  - 4.10.2. Family Claudication
  - 4.10.3. Comprehensive Care: Fostering, Caring and Accompanying
  - 4.10.4. Cultural and Spiritual Aspects
  - 4.10.5. Communicating Bad News: Objectives of Nursing Staff





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*You will equip yourself with skills in compassionate communication to accompany the patient and their family in the process of illness, ensuring comprehensive and humane care at all stages of their treatment”*

04

# Teaching Objectives

This qualification will enable graduates to carry out accurate clinical assessments, interpret diagnostic results and plan individualized care, taking into account the specific needs of each patient. In addition, they will acquire skills in the management of complex treatments such as chemotherapy and bone marrow transplantation and the management of side effects, while reinforcing their ability to offer emotional support and educate the patient and their family. Interdisciplinary collaboration and continuous updating on scientific and technological advances will also be encouraged, improving the quality of care and clinical outcomes in the hematological field.



A blurred image of industrial machinery, possibly a factory or manufacturing plant, with red and grey tones. The image is partially obscured by a white diagonal shape that contains the text.

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*You will gain the skills to respond effectively to emergency situations, providing palliative care when necessary, with the support of the revolutionary Relearning methodology”*



## General Objectives

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- ♦ Develop specific clinical skills in the management of hematology patients
- ♦ Generate specialized knowledge about hematological patients, from the prevention of diseases to their assessment, diagnosis and treatment
- ♦ Develop advanced knowledge about pediatric hematology and analyze the differences with hematology in adults
- ♦ Determine the clinical management of hematology patients through the application of care plans that include the safe administration of drugs, blood products and adequate nutritional support
- ♦ Qualify nursing staff to detect and act on frequent complications and emergencies in hematology patients
- ♦ Develop a comprehensive and specialized approach to the care of patients undergoing Hematopoietic Stem Cell Transplantation, both Allogeneic and Autologous
- ♦ Generate emotional and psychological support in the care of hematology patients, through the implementation of basic interventions and accompaniment
- ♦ Develop care strategies that enable the provision of quality palliative care to hematology patients
- ♦ Strengthen the ability to evaluate and manage complex situations such as refractory symptoms or familial claudication
- ♦ Analyze the development to the present day of palliative care and understand the different options available to hematology patients





## Specific Objectives

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### Module 1. Hematology Patients in Nursing

- ◆ 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

### Module 2. Hematological Prevention, Diagnosis and Treatment in Nursing

- ◆ Identify the risk factors and preventive measures for hematologic diseases in order to reduce their incidence in the population
- ◆ Apply clinical assessment techniques and specific diagnostic tests in patients with suspected hematologic diseases
- ◆ Analyze and compare the different treatments available for hematologic diseases, including conventional and advanced therapies
- ◆ Distinguish the characteristics of pediatric hematology, identifying the key differences with hematology in adults for an adequate management in each age group
- ◆ Resolve doubts and frequent clinical cases that arise in daily practice, improving evidence-based clinical decision making
- ◆ Develop skills in education and support for patients and their families, facilitating understanding of the disease and promoting adherence to treatment

- ♦ Strengthen the role of nursing in the prevention, diagnosis and treatment of hematologic diseases, highlighting specific interventions in different clinical settings
- ♦ Promote safe and quality practices in the management of hematology patients, including infection prevention measures and safe administration of medication
- ♦ Update knowledge on scientific and technological advances in hematology that can improve clinical outcomes and quality of care
- ♦ Foster interdisciplinary collaboration, integrating healthcare teams for a comprehensive approach to hematology patients

### Module 3. Hematology Nursing Care Plans

- ♦ Develop skills to apply different types of chemotherapy and blood products effectively and safely
- ♦ Implement specific care strategies for hematology patients with a focus on nutritional assessment, management of digestive disorders and nutritional support
- ♦ Strengthen the ability to respond to emergency situations in hematology patients
- ♦ Develop specialized skills to provide comprehensive care to patients undergoing HSCT
- ♦ Propose effective interventions to address the emotional impact of diagnosis, providing support and accompaniment during the different phases of the disease



#### Module 4. Palliative Care for Patients with Hematological Cancer

- ◆ Implement comprehensive assessment techniques to identify and monitor the main refractory symptoms in hematology patients
- ◆ Establish personalized care plans that include pharmacological and non-pharmacological interventions
- ◆ Develop effective and compassionate communication in the transmission of bad news, ensuring that the patient and their family understand the therapeutic options and the prognosis of the disease
- ◆ Apply support strategies for both the patient and their family members, offering an appropriate end of life

“ You will gain a deeper understanding of the use of diagnostic tools to assess the health of your patients, as well as the interpretation of laboratory results, which will allow you to carry out an accurate clinical assessment”

# 05

# Career Opportunities

Graduates will be able to work in Hematology, Oncology and Bone Marrow Transplant Units, playing a key role in the management of complex treatments such as chemotherapy and support for immunocompromised patients. In addition, they will have the opportunity to join multidisciplinary teams, collaborating with hematologists, oncologists and other health professionals. They will also be able to work in the field of education, offering advice to both patients and other healthcare professionals, and in research, contributing to the improvement of care and the implementation of new evidence-based practices.





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*The Postgraduate Diploma will open up a range of career opportunities, allowing you to specialize in the care of patients with hematologic diseases in hospitals, clinics and specialized health centers”*

### Graduate Profile

Graduates will be characterized by a solid theoretical and practical preparation that will enable them to make accurate clinical assessments, interpret diagnostic tests and develop individualized care plans. In addition, they will be qualified to apply advanced techniques in the management of complex treatments, such as chemotherapy and bone marrow transplantation, as well as to address the side effects of these treatments. They will also be distinguished by their ability to work collaboratively in multidisciplinary teams, offer emotional support to patients and their families, and promote education and prevention in the hematological field.

*This qualification will prepare you to face challenges in clinical settings, contributing to the improvement of patients' quality of life and the implementation of evidence-based practices.*

- ♦ **Ability to Work in an Interdisciplinary Team:** Collaborate effectively with professionals from different disciplines (hematologists, oncologists, nutritionists, psychologists, among others) to offer comprehensive and coordinated care to the hematological patient, improving clinical outcomes and quality of care
- ♦ **Effective Communication Management:** Develop skills to establish clear, empathetic and effective communication with patients and their families, facilitating understanding of treatments and management of the disease, as well as to work fluidly with other members of the healthcare team
- ♦ **Evidence-Based Decision Making:** Acquire the ability to apply critical thinking and scientific research in clinical decision making, using best practices and the latest advances in hematology to personalize care and improve patient health outcomes
- ♦ **Adaptation to New Health Technologies:** Integrate advanced technological tools, such as Digital Medical Records, Telemedicine and Big Data analysis, optimizing the diagnosis, treatment and monitoring of hematology patients



After completing the program, you will be able to use your knowledge and skills in the following positions:

- 1. Hematology Oncology Unit Nurse:** Professional responsible for the direct care of patients with malignant hematological diseases, such as Leukaemia, Lymphoma and Multiple Myeloma.
- 2. Bone Marrow Transplant Nurse:** Specialist in the care of patients undergoing Hematopoietic Stem Cell Transplants.
- 3. Hematology Nursing Care Coordinator:** Responsible for planning and coordinating Nursing Care in Hematology Units.
- 4. Hematology Nurse Educator:** Professional dedicated to the education and training of patients and their families on the management of hematologic diseases and related treatments.
- 5. Hematology Nursing Researcher:** Specialist in clinical research related to nursing in the field of Hematology.
- 6. Palliative Care Nurse in Hematology Units:** Professional focused on the care of patients with terminal hematologic diseases.

“

*You will be able to collaborate in scientific studies that promote the improvement of the quality of care and innovation in the care of your patients, playing a fundamental role in the evolution of Hematology Nursing”*

06

# 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.



“

*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

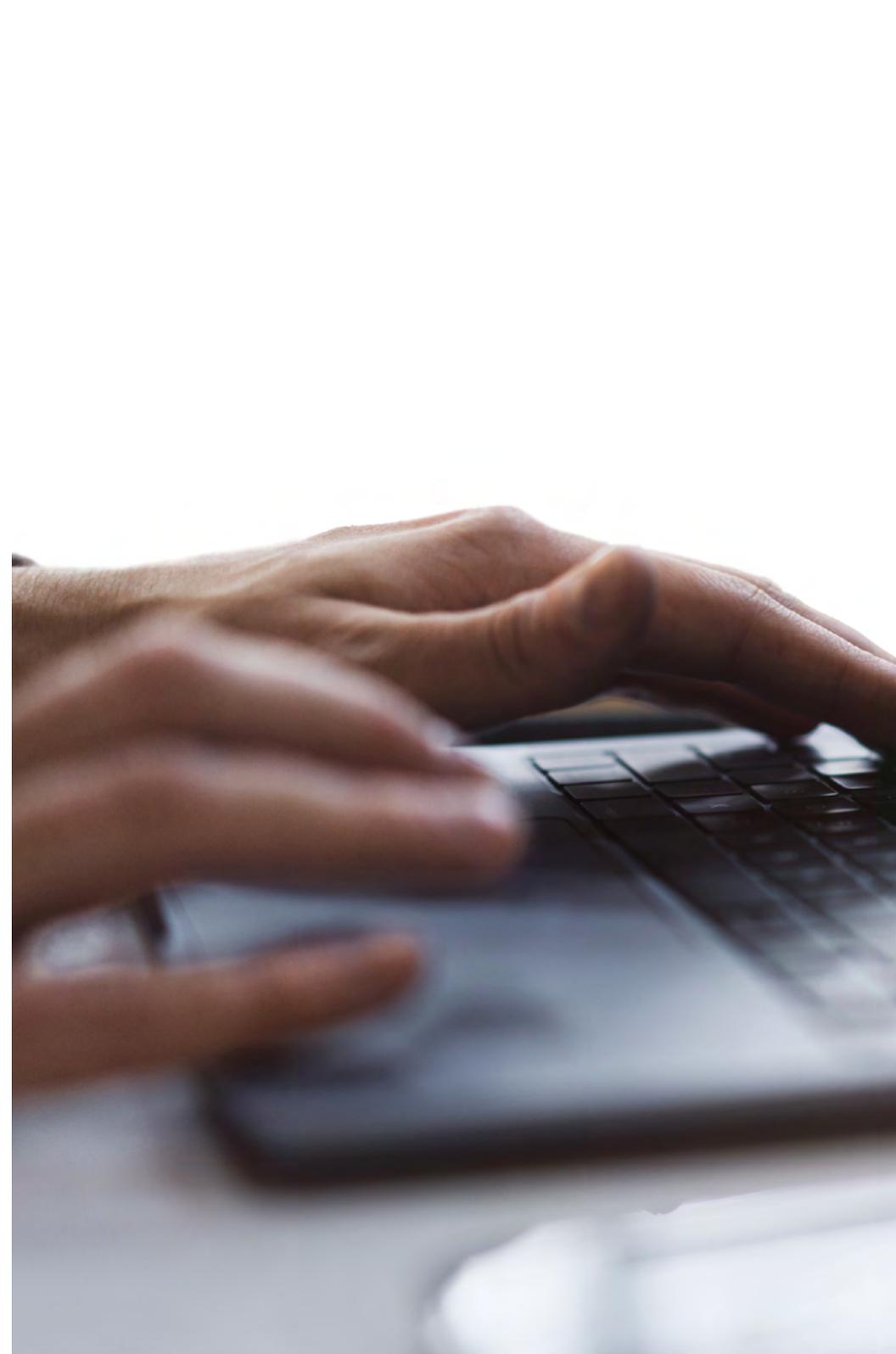
In TECH's study methodology, the student is the main protagonist.

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.

“

*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.

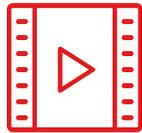
The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

*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

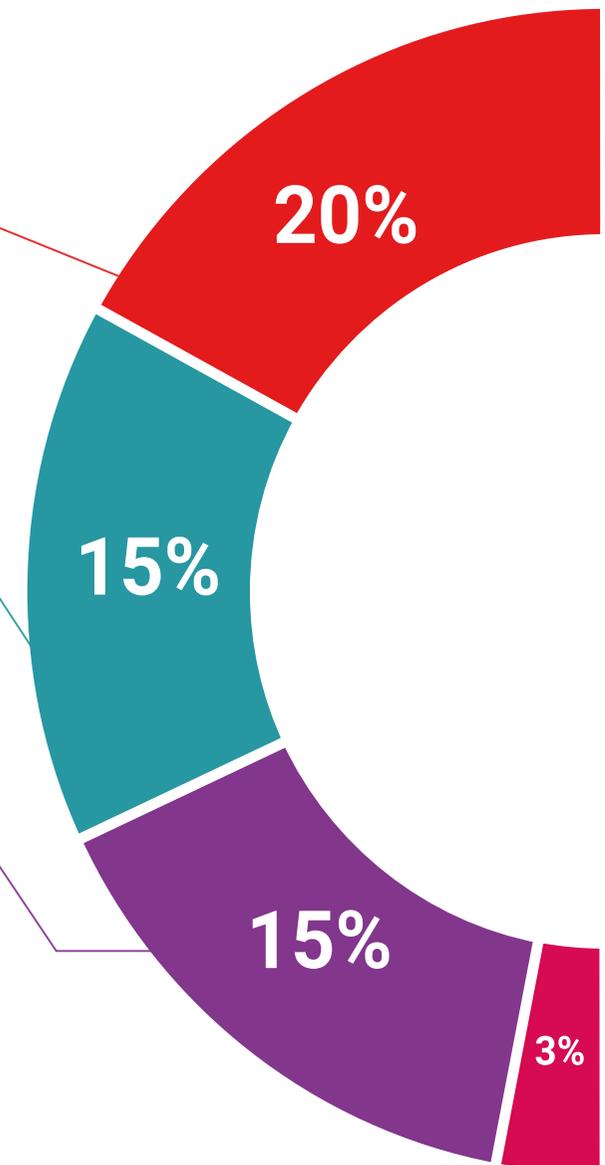
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

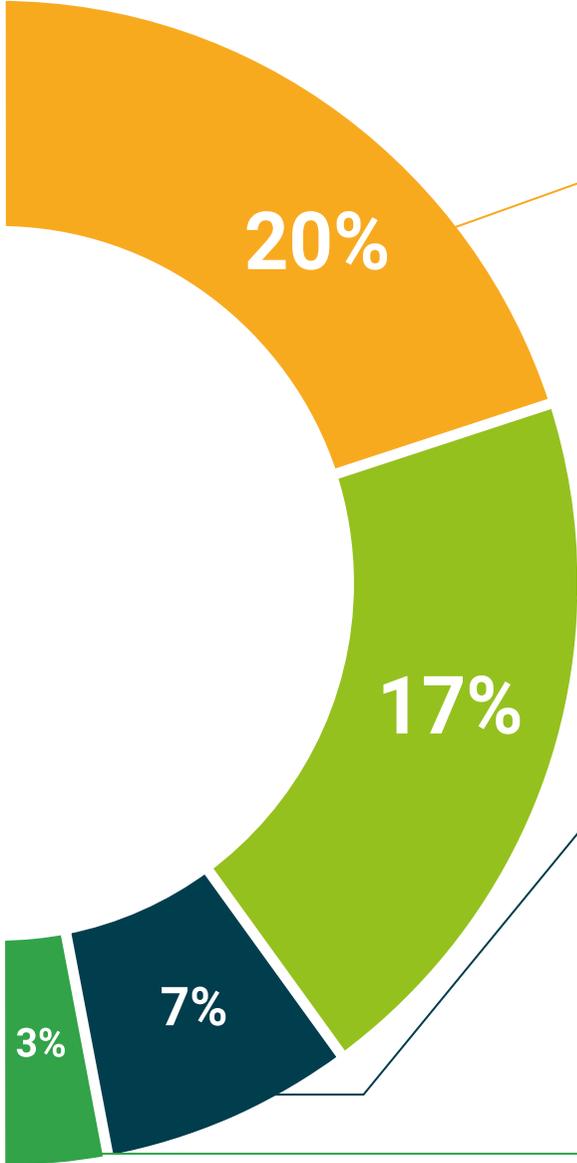
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### 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.



07

# Teaching Staff

The lecturers are highly qualified and have extensive experience in the field of Hematology and specialized Nursing. In fact, they are renowned professionals, including nurses with years of practice in Hematology and Oncology units. In addition, these experts will not only provide up-to-date theoretical knowledge based on the latest scientific evidence, but will also share their clinical experiences, allowing graduates to access practical and realistic learning.



“

*The teachers will encourage personalized teaching and will support the graduates in their academic journey, guaranteeing high-quality education adapted to the needs of the professional environment”*

## 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. Castillo Gallardo, Vanessa

- ♦ Inpatient Supervisor at the Ruber Juan Bravo Hospital
- ♦ Nurse at the Quirónsalud Madrid University Hospital
- ♦ Nurse at the Nuestra Señora de América Hospital
- ♦ Nurse at the Gregorio Marañón General University Hospital
- ♦ Senior Technician in the Clinical Diagnostic Laboratory
- ♦ University Expert in Nursing Processes and Interventions for Adult Patients in Life-Threatening Situations from the Catholic University of Ávila
- ♦ Degree in Nursing from the “Salus Infirmorum” Faculty of Nursing and Physiotherapy

### Ms. Bouza Nebrera, Irene

- ♦ Inpatient Supervisor at the Ruber Juan Bravo Hospital
- ♦ Inpatient Care Nurse at the Hospital del Sureste
- ♦ Care Nurse at the Hospital Moncloa (ASISA)
- ♦ University Expert in Health Services Management from the CEU
- ♦ University Expert in Nursing Management from the CEU
- ♦ Diploma in Nursing from the Autonomous University of Madrid

### Ms. Sánchez Monedero, Tamara

- ♦ Inpatient Nursing Supervisor at HLA Moncloa University Hospital
- ♦ Nurse at HLA Moncloa University Hospital
- ♦ Nurse in charge of blood sampling at Nueva Segovia S.L. Clinical Analysis
- ♦ Emergency, Pulmonology and Neurology Nurse at La Paz University Hospital
- ♦ Master's Degree in Health Services Management from Alfonso X El Sabio University
- ♦ University Expert in Critical Care Nursing from the Complutense University of Madrid
- ♦ Diploma in Nursing from the Autonomous University of Madrid

### 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

### Ms. Rodríguez Izquierdo, Vanessa

- ♦ Inpatient Nurse at Ruber Juan Bravo Hospital
- ♦ Nurse at FREMAP
- ♦ Medical Examination Nurse at Clinisas
- ♦ Nurse at the Moncloa Clinic
- ♦ Nurse in the Medical Service at the UNED
- ♦ Nurse in the Medical Service at El Corte Inglés
- ♦ University Expert in Nursing Prescription
- ♦ University Course in the Basics of Emergency Nursing
- ♦ University Course in Clinical Care of Chronic Wounds
- ♦ Diploma in Nursing from the Complutense University of Madrid

08

# Certificate

The Postgraduate Diploma in Nursing Care in the Hematology Department guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



“

*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 Nursing Care in the Hematology Department** 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 Diploma in Nursing Care in the Hematology Department**

Modality: **online**

Duration: **6 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  
online training  
development languages  
virtual classroom



**Postgraduate Diploma**  
Nursing Care in the  
Hematology Department

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

# Postgraduate Diploma

## Nursing Care in the Hematology Department