

Postgraduate Certificate

Digital Transformation in the Hematology Nursing Department



Postgraduate Certificate Digital Transformation in the Hematology Nursing Department

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

Website: www.techtitute.com/us/nursing/postgraduate-certificate/digital-transformation-hematology-nursing-department

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01

Introduction to the Program

The digital transformation is revolutionizing the Hematology Department in Nursing, improving the quality and efficiency of patient care. As such, the integration of advanced technologies such as Artificial Intelligence (AI) and Virtual Reality (VR) is enabling nurses to offer more personalized and effective care. In addition, the digitalization of processes in the field of hematology has optimized the management of samples and analyses, reducing errors and speeding up response times. In this context, TECH has created a completely online program, designed to provide the flexibility necessary to adjust to the professional and personal responsibilities of graduates, applying the innovative Relearning methodology, which stands out as one of the main characteristics that distinguishes this institution.



“

With this 100% online Postgraduate Certificate, you will gain advanced skills in the use of digital tools, such as Electronic Health Records, Telemedicine and remote monitoring devices”

Technological innovations not only improve care for hematology patients, but also optimize the use of resources and reduce costs, allowing nurses to focus on the more human aspects of care. In turn, continuing education in these digital tools is essential for professionals to stay up to date and take full advantage of the benefits offered by digital transformation in the Hematology Department.

This is how this Postgraduate Certificate came about, thanks to which nurses will be able to use the Digital Health Record (DHR) to efficiently manage medical records, Telemedicine to offer remote care, and remote monitoring devices that allow continuous and accurate monitoring of patients. These tools not only strengthen care, but also optimize time and resources in healthcare settings.

Likewise, innovative technologies, such as Artificial Intelligence and Big Data analysis, will be explored in greater depth in daily practice. Skills will also be developed to interpret large volumes of data, identify relevant patterns and apply this knowledge to more precise diagnoses and personalized treatments.

Finally, the incorporation of emerging tools such as 3D printing and virtual simulations will be addressed, allowing for precise treatment planning and facilitating continuing education through realistic scenarios. In addition, emphasis will be placed on the importance of best practices in cybersecurity, ensuring the protection of sensitive patient data and compliance with current legal regulations.

In this way, TECH has designed an excellent quality, 100% online academic program that will allow graduates to access all the teaching material from any electronic device with an Internet connection. This will eliminate obstacles such as the need to attend on-site classes or restrictions on fixed schedules. Additionally, it will integrate the revolutionary Relearning methodology, which focuses on the strategic repetition of key concepts to guarantee effective and dynamic learning.

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



You will develop skills for interpreting large volumes of data, identifying relevant patterns and applying this knowledge to more precise diagnoses and personalized treatments. Enroll now!"

“

You will use the Digital Health Record (DHR), Telemedicine and remote monitoring devices, tools that not only improve care, but also optimize time and resources in healthcare settings”

You will address the incorporation of emerging tools such as 3D printing and virtual simulations, planning treatments in a precise manner and facilitating continuing education through realistic scenarios.

You will master innovative technologies, such as Artificial Intelligence (AI) and Big Data analysis, in daily practice, through the best teaching materials, at the academic and technological forefront.

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.



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.



“

*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, nurses will address key topics such as the management of the Electronic Health Record, the use of remote monitoring devices and the applications of Telemedicine in Hematology. Topics dedicated to Artificial Intelligence and Big Data will also be included, analyzing their impact on personalized diagnosis and treatment. In addition, practices on 3D printing and virtual simulations will be integrated for care planning and continuing education. Likewise, an essential section will be cybersecurity, where instruction will be given on data protection and compliance with legal regulations.



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The syllabus of the Postgraduate Certificate has been designed to provide comprehensive and up-to-date education, adapted to the needs of nurses in a constantly evolving healthcare environment”

Module 1. Digital Transformation in the Hematology Nursing Department

- 1.1. Electronic Health Records (EHR) for Hematology Patients
 - 1.1.1. Implementation and Management of Electronic Health Records (EHR)
 - 1.1.2. Benefits and Challenges of Electronic Health Records (EHR) in Hematology
 - 1.1.3. Data Security and Privacy in Electronic Health Records (EHR)
- 1.2. Telemedicine and Teleconsultation in the Hematology Department
 - 1.2.1. Use of Telemedicine in the Follow-up of Hematology Patients
 - 1.2.2. Tools and Platforms for Teleconsultations
 - 1.2.3. Success Stories and Best Practices
- 1.3. Artificial Intelligence and Big Data in the Nursing Department
 - 1.3.1. Applications of AI in the Diagnosis and Treatment of Hematologic Diseases
 - 1.3.2. Analysis of Large Volumes of Data for Research and Improvement of Treatments
 - 1.3.3. Ethics and Use of AI and Big Data in Healthcare
- 1.4. Remote Monitoring of Hematology Patients by Nurses
 - 1.4.1. Devices and Technologies for Remote Monitoring
 - 1.4.2. Integration of Monitoring Data in Clinical Practice
 - 1.4.3. Impact on the Quality of Life of Hematology Patients
- 1.5. 3D Printing and Simulation Models for Nursing Service Training
 - 1.5.1. Bioprinting: Current and Future Applications in Hematology
 - 1.5.2. Use of 3D printing in the Creation of Anatomical Models for Treatment Planning
 - 1.5.3. Virtual Simulations for the Education and Training of Nursing Staff
- 1.6. Mobile Apps and mHealth for Monitoring Hematology Patients
 - 1.6.1. Development and Use of Mobile Applications for the Monitoring of Hematology Patients
 - 1.6.2. Evaluation of the Effectiveness of Health Apps in Hematology
 - 1.6.3. Health Promotion and Patient Education through mHealth
- 1.7. Gamification in Education and Treatment Adherence in the Hematology Department
 - 1.7.1. Use of Gamification Techniques to Improve Adherence to Treatment
 - 1.7.2. Educational Games and Applications for Patients and Healthcare Professionals
 - 1.7.3. Future Trends in Gamification



- 1.8. Augmented Reality (AR) and Virtual Reality (VR) for the Treatment of Hematologic Diseases from the Nursing Department
 - 1.8.1. AR Applications in Nursing Training
 - 1.8.2. VR Applications in Nursing Training
 - 1.8.3. Use of AR and VR for the Visualization of Complex Procedures
- 1.9. Cybersecurity in Healthcare
 - 1.9.1. Principle of Cybersecurity in the Healthcare Environment
 - 1.9.2. Cybersecurity Practices in the Healthcare Environment
 - 1.9.3. Protection of Patient Information and Regulatory Compliance
- 1.10. Future Trends in Digital Transformation in the Hematology Department
 - 1.10.1. Emerging Innovations and their Potential Impact
 - 1.10.2. Preparing Nursing Staff to Adapt to New Technologies
 - 1.10.3. Automation of Clinical Processes in Hematology

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Bet on TECH! In addition, emphasis will be placed on the importance of best practices in cybersecurity, ensuring the protection of sensitive patient data and compliance with current legal regulations”

04

Teaching Objectives

Among the main goals of the program, it is worth highlighting that students will be taught how to use and manage advanced digital tools, such as Electronic Health Records, Telemedicine and remote monitoring devices. Likewise, the integration of innovative technologies, such as Artificial Intelligence and Big Data analysis, will be encouraged, allowing for more precise diagnoses and the development of personalized treatments. Nurses will also be trained in the use of 3D printing and virtual simulations for care planning and continuing education. Finally, the adoption of good cybersecurity practices will be promoted, ensuring the protection of sensitive data.



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The objectives of the Digital Transformation in the Hematology Nursing Department are aimed at training nurses to face the technological challenges of today's healthcare environment”

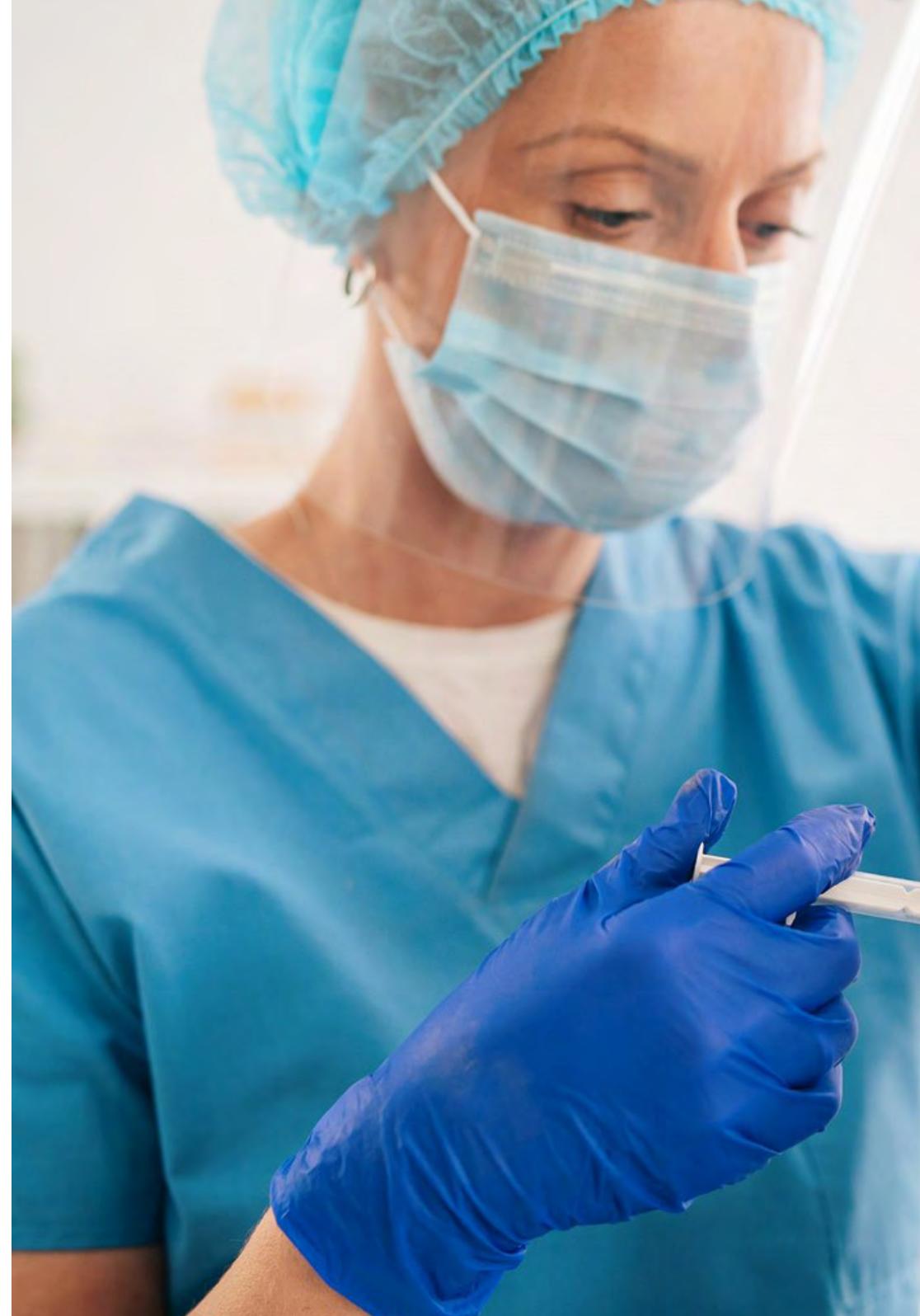


General Objective

- ◆ Identify key technologies and their application in the Hematology Department

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You will be prepared to lead the digital transformation in hematology, providing significant value to the healthcare system, hand in hand with the world's best online university, according to Forbes: TECH”





Specific Objectives

- ♦ Educate students in the use and management of advanced digital technologies, such as the Digital Health Record (DHR), telemedicine and remote monitoring devices
- ♦ Promote the integration of Artificial Intelligence (AI) tools and Big Data analysis in clinical practice, facilitating more accurate diagnoses and personalized treatments
- ♦ Use 3D printing models and virtual simulations for treatment planning and continuing education
- ♦ Provide guidance on best practices in cybersecurity, ensuring the protection of patient data and compliance with current regulations

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

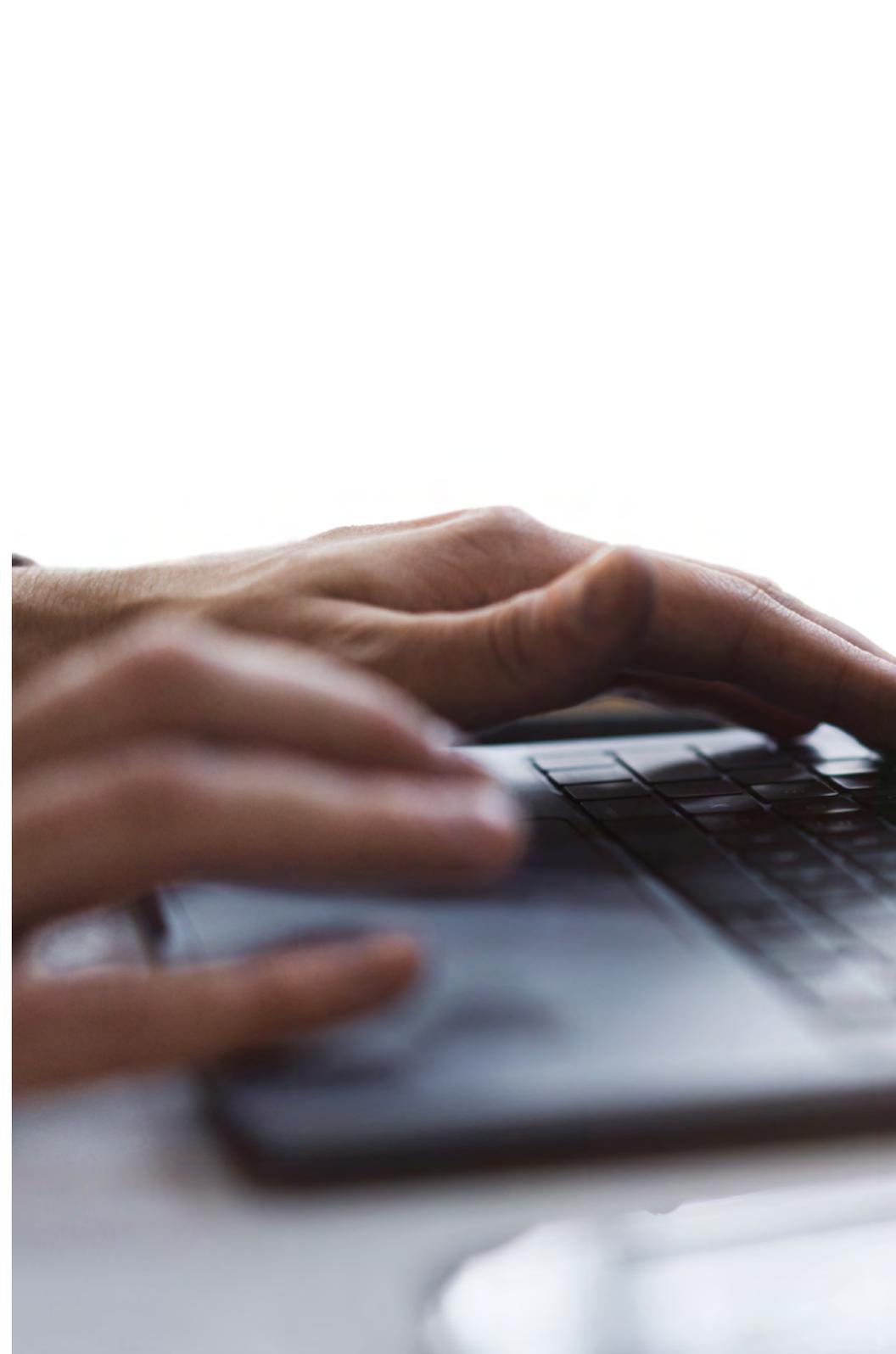
In TECH's study methodology, the student is the main protagonist.

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

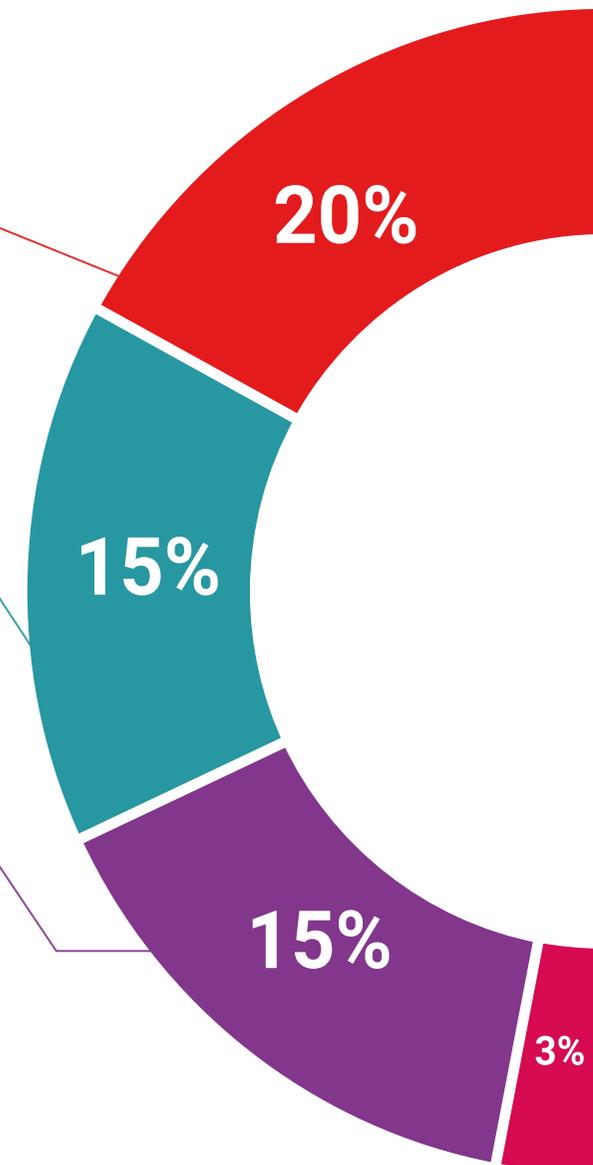
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

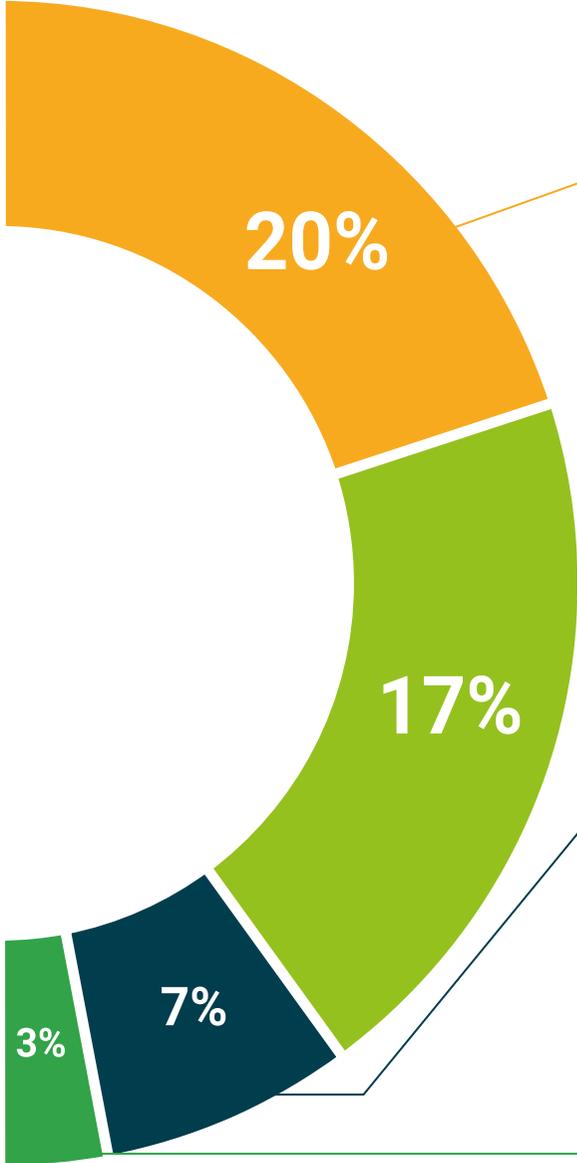
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 team is made up of highly qualified professionals with extensive experience in the healthcare and technology fields. Among them are nurses specialized in hematology and experts in digital technologies applied to healthcare, who combine a solid theoretical knowledge with up-to-date clinical practice. In addition, these mentors are committed to the comprehensive training of graduates, providing personalized guidance and sharing real cases that illustrate the application of tools such as Artificial Intelligence, Big Data, 3D printing and Telemedicine.



“

The innovative teaching approach of the faculty will ensure that graduates acquire the skills necessary to lead the digital transformation in their work environments”

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. Gimeno Esteban, Amparo

- ◆ Director of Quality, Safety and Patient Experience at Ruber Juan Bravo Hospital
- ◆ Patient Safety Nurse at Ruber Juan Bravo Hospital
- ◆ Operating Room, ICU and Resuscitation Nurse at Ruber Juan Bravo Hospital
- ◆ Inpatient Nurse in Oncology, Hematology and Pediatrics at Juan Ramón Jiménez Hospital
- ◆ Master's Degree in Patient Safety from the University of La Rioja
- ◆ Master's Degree in Nursing Management from the Camilo José Cela University
- ◆ Master's Degree in Human Resources Management from the EFEM Gates Group
- ◆ University Diploma in Nursing from the University of Huelva

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All the lecturers on this program have extensive experience, offering you an innovative perspective on the main advances in this field of study”

07

Certificate

The Postgraduate Certificate in Digital Transformation in the Hematology Department 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.





“

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 Digital Transformation in the Hematology Department 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 Digital Transformation in the Hematology Department 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
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in the Hematology
Nursing Department

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- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate

Digital Transformation in the Hematology Nursing Department