

# Postgraduate Certificate

## Dental Care in the Patient with Hematologic Pathology





## Postgraduate Certificate

### Dental Care in the Patient with Hematologic Pathology

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/pk/dentistry/postgraduate-certificate/dental-care-patient-hematologic-pathology](http://www.techtute.com/pk/dentistry/postgraduate-certificate/dental-care-patient-hematologic-pathology)

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# 01

# Introduction

Dental care in patients with hematologic pathology is crucial to prevent serious complications. Patients with hematologic disorders such as leukemia, anemia or hemophilia are more susceptible to infection and bleeding. Therefore, any dental procedure, such as tooth extraction or teeth cleaning, must be carefully planned and performed with caution. For this reason, TECH has designed a degree that allows students to maximize their knowledge on aspects such as the Physiology of Hemostasis, Dental Management of the Hemophilic Patient or Platelet Count, among others. All this, thanks to a 100% online modality and with the most dynamic and practical multimedia materials in the academic market.





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*Take advantage of the opportunity and acquire new skills on Diagnosis of Hemostasis Alterations, quickly and in a 100% online modality"*



Dental care in patients with hematologic pathology can improve the patient's quality of life, since appropriate dental treatments help prevent infections and pain, improving oral and general health. In addition, cosmetic treatments, such as orthodontics or teeth whitening, improve the patient's self-esteem and overall quality of life.

For that reason, TECH has designed a Postgraduate Certificate in Dental Care in the Patient with Hematological Pathology with which it seeks to provide students with the skills and competencies necessary to be able to perform their work as specialists, with the highest possible efficiency and quality. Thus, throughout this program, aspects such as the Dental Management of Patients undergoing Treatment with Antiplatelet Agents or Coumarin Derivatives and Heparins, as well as the Management of Anemias or Pathophysiology will be addressed.

All this, through a convenient 100% online mode that allows students to organize their schedules and studies, combining them with their other work and interests of the day to day. In addition, this degree has the most complete theoretical and practical materials on the market, which facilitates the student's study process and allows them to achieve their goals quickly and efficiently.

This **Postgraduate Certificate in Dental Care in the Patient with Hematological Pathology** 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 in Dental Attention in Patients with Hematologic Pathologies
- ◆ The graphic, schematic and practical contents of the program provide Sports and practical information on those disciplines that are essential for professional practice
- ◆ Practical exercises where self-assessment can be used 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



*Master the Dental Management of the Patient in Treatment with Antiplatelet Agents in only 6 weeks and with total freedom of organization"*

“ *Achieve professional success in one of the most promising areas of Dentistry, thanks to TECH and the most innovative didactic materials”*

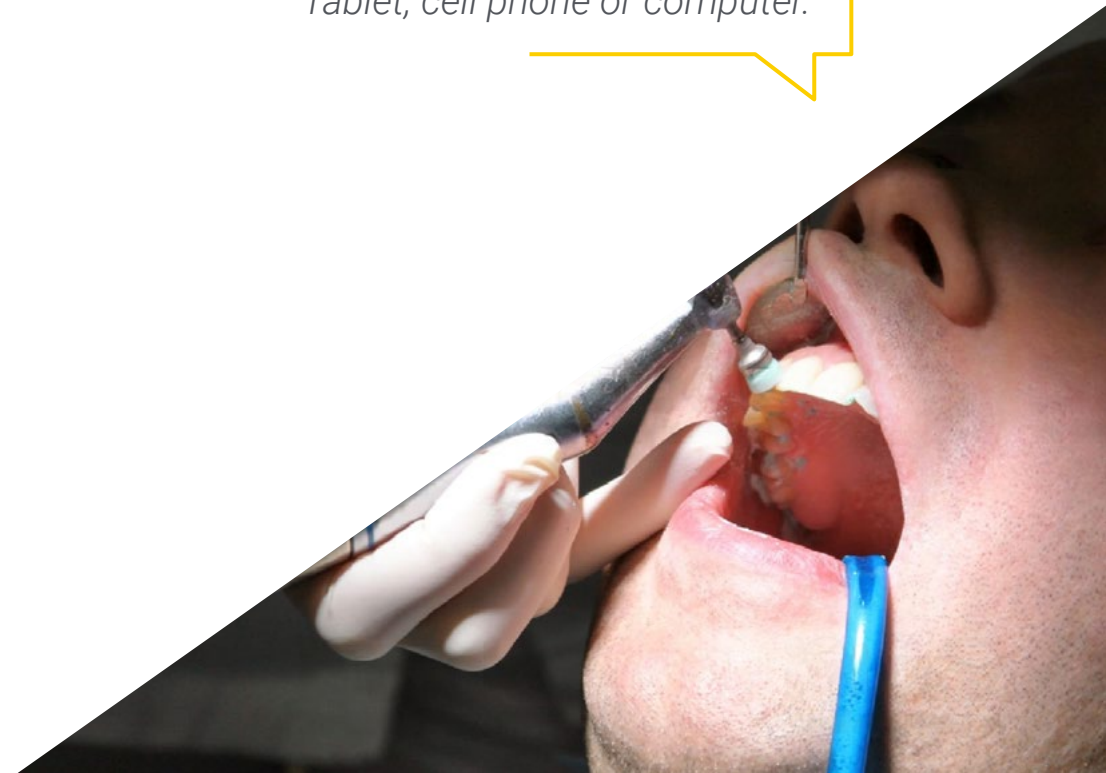
The program's teaching staff includes professionals from sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its 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 an immersive education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

*Delve into the essential aspects of the Pathophysiology of the White Series Disorders, from the comfort of your own home and 24 hours a day.*

*Access all the content on Hematologic Pathology Patient Care from any device with internet connection, whether it is a Tablet, cell phone or computer.*



# 02 Objectives

The final objective of this Postgraduate Certificate in Dental Care in the Cardiovascular the with Hematologic Pathologies Patient is that the student acquires a precise update of their knowledge in this area. An update that will allow the student to perform their work with the highest possible quality and efficiency. All this, thanks to TECH and a 100% online modality that gives total freedom of organization and schedules to the student. All this, thanks to TECH and a 100% online modality that gives total freedom of organization and schedules to the student.







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*Delves into the essential aspects of Patients with Hematologic Pathology, from the comfort of your own home and without the need for travel of any kind"*



## General Objectives

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- ♦ Update knowledge on the identification of pathologies that may affect the normal development of dental treatment
- ♦ Analyze pathologies that may hinder dental treatment
- ♦ Define the pharmacological guidelines for patients
- ♦ Define and analyze the basic and advanced aspects that define the actions to be taken in case of the main urgent and emergent conditions in a dental office
- ♦ Address the most common medical complications in patients
- ♦ Provide updated recommendations based on scientific evidence for an adequate dental approach to patients
- ♦ Identify the main Oral characteristics of Patients
- ♦ Update knowledge on the medical conditions and medication necessary
- ♦ Deepen in the main complications derived from the different medical pathologies
- ♦ Delve into the possible interactions derived from the medical pathology in the dental setting



*Overcome you with your most demanding goals thanks to a unique program with the most complete theoretical and practical materials in the academic market"*





## Specific Objectives

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- ◆ Develop the physiological phenomena that occur during hemostasis
- ◆ Identify which coagulation tests should be ordered for dental treatment
- ◆ Establish guidelines for the dental treatment of patients treated with antiplatelet agents
- ◆ Establish the guidelines for the dental treatment of patients anticoagulated with coumarin derivatives and heparin
- ◆ Identify the different types of direct oral anticoagulants and their management in dental treatment
- ◆ Define the criteria for safe dental treatment in patients with hemophilia and other congenital pathologies
- ◆ Establish guidelines for dental treatment in patients with red blood cell disorders
- ◆ Establish guidelines for dental treatment in patients with white blood cell disorders
- ◆ Identify the different types of Purpura and their management in dental treatment
- ◆ Develop protocols for the control of intraoperative and postoperative bleeding

03

# Course Management

In its constant search to provide a degree of the highest quality and usefulness, TECH has selected professionals specialized in Dental Care in the Patient with Hematologic Pathology as part of this teaching staff, who have been in charge of the design of the most advanced contents. Thus, students will learn from the best the keys to their professional development in a field that adapts to new technologies and the latest advances in the market.





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*The most experienced faculty will provide you with the most up-to-date knowledge in Dental Care, preparing you for a successful future"*



## Management



### Dr. Gil Montoya, Jose Antonio

- ♦ General Dentist in private practice
- ♦ Coordinator of the Doctoral Program in Clinical Medicine and Public Health of the University of Granada
- ♦ Director of the Stomatology Department of the University of Granada
- ♦ Head Teacher of Dentistry in Special Patients at the University of Granada
- ♦ Gerodontology Professor at the University of Granada
- ♦ Invited professor of online Masters in Special Patients and Gerodontology
- ♦ Degree in Dentistry from the University of Granada
- ♦ PhD in Dentistry from the University of Granada
- ♦ Master's Degree in Social Gerontology from the University of Granada
- ♦ Master in Health Research Methodology by the Andalusian School of Public Health



## Professors

### Dr. Reyes Botella, Candela

- ◆ Dentist in private practices
- ◆ Professor of Odontology at the University of Granada
- ◆ Degree in Medicine and Surgery
- ◆ Degree in Dentistry
- ◆ PhD in Medicine and Surgery
- ◆ Stomatology Specialist
- ◆ Master's Degree university in Oral Surgery and Implantology from the University of Granada

### Dr. Silvestre Rangil, Javier

- ◆ Private practice from general dentistry
- ◆ Specialist in Periodontics, Oral Surgery, Oral Medicine, and Special Needs Patients
- ◆ Associate professor attached to the Stomatology Department from the Faculty of Medicine and Dentistry, University of Valencia
- ◆ Degree in Dentistry from the University of Barcelona
- ◆ PhD in Dentistry from the University of Valencia
- ◆ Master in Oral Medicine and Surgery by the University of Valencia
- ◆ Master in Special Patients and Hospital Dentistry by the University of Valencia

# 04

# Structure and Content

The structure and Didactics resources of this curriculum have been designed by the renowned professionals that make up the TECH team of experts in this area of Odontology. These specialists have used their extensive experience and their most advanced knowledge to create practical and completely updated contents. All this, based on the most efficient teaching methodology, TECH's Relearning.

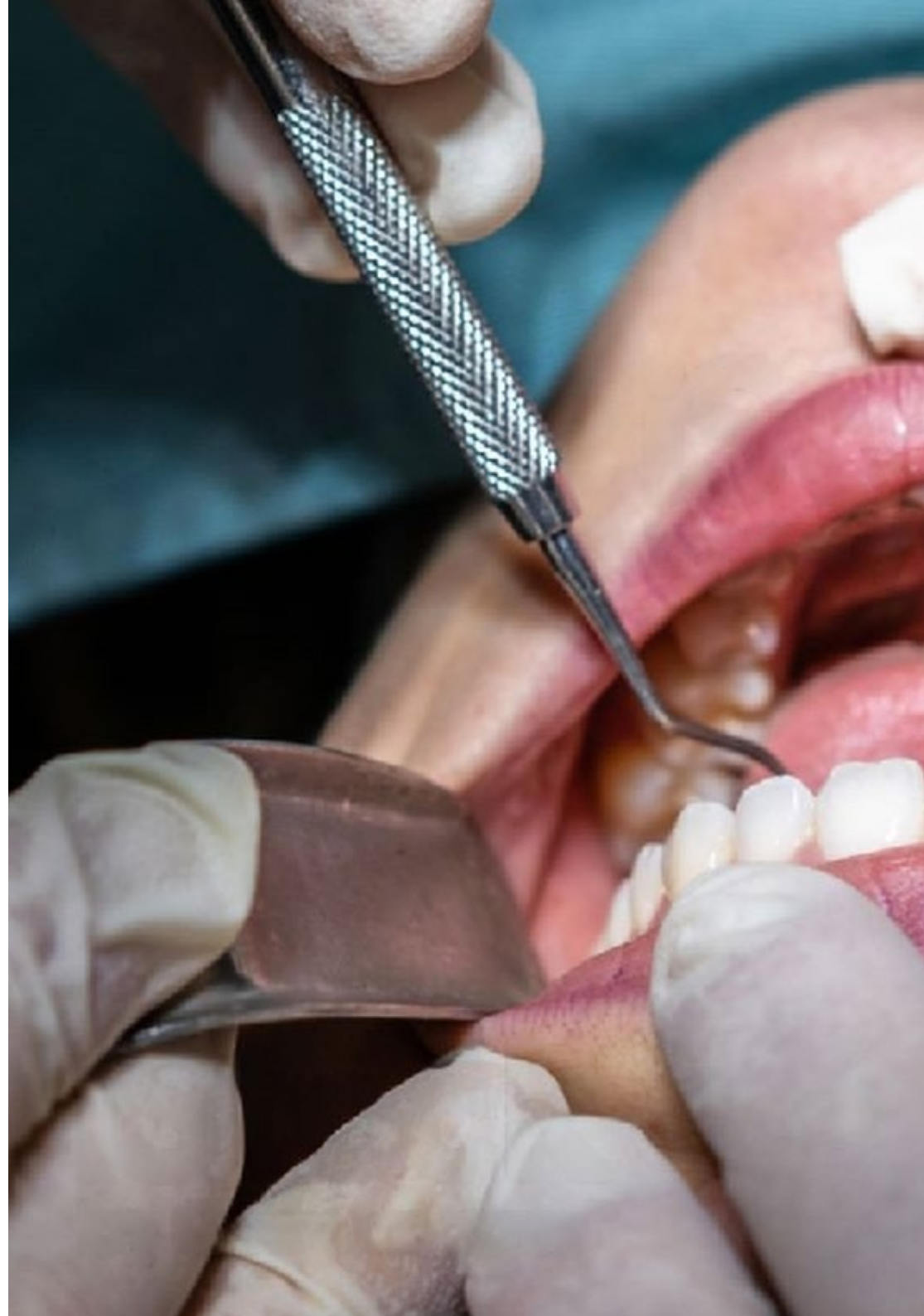


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*Expand your knowledge of Odontology, thanks to the Didactics most Complete materials and a wide variety of additional content available on the Virtual Campus”*

## Module 1. Dental Care in Patients with Hematologic Alterations

- 1.1. Hemostasis Physiology
  - 1.1.1. vascular phenomena of hemostasis
  - 1.1.2. Primary Hemostasis. Platelet aggregation
  - 1.1.3. Secondary Hemostasis. Coagulation
- 1.2. Diagnosis of Hemostasis Disorders
  - 1.2.1. Clinical history in patients with hemostasis disturbances
  - 1.2.2. Platelet count. Bleeding time. PFA-100
  - 1.2.3. Prothrombin time. INR. Thrombin time. Activated partial thromboplastin time. Fibrinogen Concentration
- 1.3. Dental management of the patient treatment with platelet aggregation Inhibitors
  - 1.3.1. Pharmacodynamics and pharmacokinetics of antiplatelet agents
  - 1.3.2. Classification and action mechanism of platelet antiplatelet agents
  - 1.3.3. Dental management of patients with antiplatelet therapy
- 1.4. Dental management of the patient treatment with coumarin derivatives and heparin
  - 1.4.1. Pharmacodynamics and pharmacokinetics of coumarin and heparin derivatives
  - 1.4.2. Classification and Mechanism of Action of coumarin and heparin derivatives
  - 1.4.3. Patient management of dental treatment with coumarin derivatives and heparins
- 1.5. Patient's dental management in treatment with direct oral anticoagulants
  - 1.5.1. Pharmacodynamics and pharmacokinetics of direct oral anticoagulants
  - 1.5.2. Classification and action mechanism of Direct Oral Anticoagulants agents
  - 1.5.3. Patient dental management with direct oral anticoagulants
- 1.6. Dental management of the hemophilic patient and other congenital diseases
  - 1.6.1. Pathophysiology of hemophilia
  - 1.6.2. Congenital diseases with hemostasis involvement
  - 1.6.3. Clinic management of the hemophilic patient and from other congenital diseases







- 1.7. Dental management of the patient with red series alterations
  - 1.7.1. Clinical history and laboratory tests in patients with red series alterations. Wintrobe indices
  - 1.7.2. Pathophysiology and diagnosis of anemias
  - 1.7.3. Dental management of anemias
- 1.8. Dental management of the patient in treatment with white series alterations
  - 1.8.1. Clinical history and laboratory tests in patients with white series alterations
  - 1.8.2. Pathophysiology of the alterations of the white series
  - 1.8.3. Clinic management of the patient with white series alterations
- 1.9. Thrombocytopenic purpuras, thrombocytopathic and angiopathic
  - 1.9.1. Pathophysiology of Purpura
  - 1.9.2. Oral manifestations of purpuras
  - 1.9.3. Dental management of patients with purpura
- 1.10. Dental management of intraoperative and postoperative hemorrhage
  - 1.10.1. Risk classification of bleeding according to different dental treatments
  - 1.10.2. Control of intraoperative hemorrhage
  - 1.10.3. Control of postoperative hemorrhage



*Thanks to the most efficient teaching methodology, TECH Relearning, you will be able to acquire new knowledge in a precise and natural way, without spending too much time studying"*

# 05

# Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization”*

## At TECH we use the Case Method

In a given situation, what should a professional do? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the dentist's professional practice.



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*Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”*

The effectiveness of the method is justified by four fundamental achievements:

1. Dentists who follow this method not only grasp concepts, but also develop their mental capacity by means of exercises to evaluate real situations and apply their 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.





## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

*The student will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*



At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology we have trained more than 115,000 dentists with unprecedented success, in all specialties regardless of the workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

*Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.*

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



### Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



### Educational Techniques and Procedures on Video

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



### Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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



### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.  
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.





06

# Certificate

The Postgraduate Certificate in Dental Care in the Patient with Hematologic Pathology guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Dental Care in the Patient with Hematological Pathology** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate Dental Care in the Patient with Hematologic Pathology**

Official N° of Hours: **150 h.**



\*Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.



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