

Postgraduate Diploma

Immune Mediated Pathology in Geriatrics



Postgraduate Diploma Immune Mediated Pathology in Geriatrics

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

Website: www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-immune-mediated-pathology-geriatrics

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01

Introduction

The frequency of certain systemic autoimmune, progressive and chronic diseases such as rheumatoid arthritis has led to a scientific interest in their early detection and their approach through the most advanced therapeutic procedures. A study that also manifests itself in other pathologies such as lupus erythematosus or antiphospholipid syndrome. This is the line of action of this degree designed by TECH, which allows specialists in Rheumatology to update their knowledge of diagnostic techniques and pharmacological treatments used in geriatric patients. A 100% online program that will take you deeper into connectivopathies, chronic inflammatory joint conditions, vasculitis or myopathies. All this, in an academic itinerary that brings together the most current and rigorous information in only 450 teaching hours.



A close-up photograph of a person's hand, showing the palm and fingers. The skin is light-toned and shows some texture. The hand is positioned on the left side of the frame, with the fingers slightly curled. The background is blurred, suggesting an indoor setting with light-colored walls or surfaces.

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*In only 6 months you will get a successful update
in Immune Mediated Pathology in Geriatrics"*

In the elderly population it is common to find patients in medical consultations with previously diagnosed pathologies, who may also have accumulated organic damage or with recent onset of these conditions. This is a diagnostic and therapeutic challenge for medical professionals, especially in view of the increase in the number of geriatric patients due to life expectancy.

In this regard, it is essential that rheumatology specialists update their knowledge of the main diseases that chronically affect the joints and the immune system itself. For this reason, this academic institution has created this University Expert designed and developed by an excellent team of professionals with extensive experience in this field.

Therefore, with a theoretical-practical perspective, the syllabus of this program will allow students to be aware of the most current diagnostic techniques used for the detection of arthritis, spondyloarthritis or for ocular, pulmonary and cutaneous manifestations. In addition, the educational material will lead you to delve in an attractive way into the most recent lines of research in molecular biology and pathophysiology of chronic inflammatory joint diseases or vasculitis, myopathies and other systemic diseases.

A complete update of knowledge in only 6 months and through didactic resources based on multimedia pills, detailed videos, complementary readings and clinical case studies that can be conveniently accessed from any electronic device with an internet connection.

A magnificent opportunity to study a high-level degree through a flexible academic option that allows self-management of study time and to combine the most demanding responsibilities with a program that is at the academic forefront.

This **Postgraduate Certificate in Immune Mediated Pathology in Geriatrics** contains the most complete and up-to-date educational program on the market. Its most outstanding features are:

- ♦ The development of practical cases presented by experts in Rheumatology
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the 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
- ♦ The availability of access to content from any fixed or portable device with an Internet connection



If you are looking for a quality university degree, with the best experts and compatible with your professional responsibilities, this is the ideal program for you"

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Incorporate into your clinical practice the most advanced diagnostic and imaging techniques used in inflammatory joint diseases”

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.

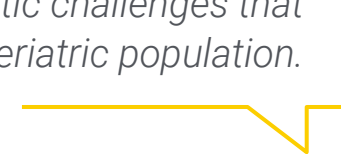
Its multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive education programmed to learn in real situations.

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. This will be done with the help of an innovative system of interactive videos made by renowned experts.

With this academic option you will be aware of the approach to clinical cases of multi-pathological and polymedicated elderly patients.



This university degree will allow you to delve into the new diagnostic and therapeutic challenges that arise in the geriatric population.



02 Objectives

Chronic immune-mediated pathologies tend to decrease in incidence with age, but they do not disappear, so it is necessary for professionals to be aware of advances in their approach. With this purpose, TECH provides the specialist with the most outstanding and current information in the field of Immune Mediated Pathology in Geriatrics, elaborated by an excellent team with an impeccable trajectory in Rheumatology.





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The advanced agenda of this program will allow you to delve into the most relevant advances in the approach to Still's disease in adults"



General Objectives

- Deepen in the processes of aging, its clinical, diagnostic and prognostic implications
- Investigate the specific biological and physiological determinants of geriatric patients
- Learn more about the reasons why pathologies manifest themselves differently in geriatric patients, as well as the pharmacological characteristics that condition their treatments
- Update knowledge of the biopsychosocial determinants related to the aging process
- Promote comprehensive and holistic care in geriatric patients with rheumatic pathologies, whether measured by the immune system, bone metabolism, paraneoplastic or degenerative manifestations





Specific objectives

Module 1. Paraneoplastic Syndromes and Comorbidities in Cancer Chronic Inflammatory Joint Disease (Arthritis/Spondyloarthritis)

- ♦ Deepen in the concepts of inflammation and chronicity, as well as epidemiological and biological differential characteristics in the geriatric population
- ♦ Update procedures related to the comprehensive management of chronic joint diseases in the geriatric population
- ♦ Identify the problems and limitations of the different current classification criteria for chronic inflammatory joint diseases in geriatric patients
- ♦ Be aware of the proper management of pharmacological and non-pharmacological therapeutic measures in each of the situations that may occur in chronic inflammatory joint diseases

Module 2. Connectivopathies: Characteristics, Manifestations and Specific Care in the Geriatric Patient

- ♦ Deepen in the specific characteristics of each of the pathologies treated in the geriatric population
- ♦ Identify the current and comprehensive management of chronic connective tissue diseases in the geriatric population
- ♦ Point out the problems and limitations of the different current classification criteria for connective tissue diseases in geriatric patients
- ♦ Provide an update on pharmacological and non-pharmacological therapeutic measures in each of the situations that may occur in chronic connective tissue diseases

Module 3. Vasculitis, Myopathies and Other Systemic Diseases

- ♦ Delve into the etiopathogenic mechanisms of the different musculoskeletal manifestations of systemic diseases in the geriatric population
- ♦ Establish the current and comprehensive management of joint manifestations of systemic diseases in the geriatric population
- ♦ Identify the problems and limitations encountered by the clinician in routine clinical practice and provide the theoretical and practical tools to solve them
- ♦ Deepen in pharmacological and non-pharmacological therapeutic measures in each of the situations that may occur in musculoskeletal manifestations of systemic diseases



Vasculitis, inflammatory myopathies or Behçet's disease are just some of the pathologies that you will update with this 100% online program"

03

Course Management

TECH carries out a meticulous selection process for each and every one of the teachers that make up the degree programs. In this way, students have the guarantee of being able to take a Postgraduate Certificate whose syllabus has been prepared by the best specialists in Rheumatology with clinical and research experience that gives even greater prestige to this program. In addition, thanks to its proximity, the graduate will be able to clarify any doubts they may have about the content provided.





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Solve any doubts you may have about the syllabus of this Postgraduate Certificate with an excellent team of specialists in Rheumatology”

Management



Dr. Garcia Martir, Alvaro

- ♦ Rheumatology Specialist at the Tajo University Hospital
- ♦ Physician specializing in Rheumatology at the University Hospital 12 de Octubre
- ♦ Associate Professor of Rheumatology at the University Alfonso X, El Sabio
- ♦ Research Sufficiency by the Complutense University of Madrid
- ♦ Degree in Medicine from the Cantabria University
- ♦ Master's Degree in Rheumatic Diseases mediated by the Immune System, Rey Juan Carlos University and the Spanish Society of Rheumatology
- ♦ EFSUMB Certification: *Musculoskeletal Ultrasound level 1*
- ♦ Levels A and B of musculoskeletal ultrasound of the Spanish Society of Sports Medicine

Professors

Dr. Retuerto Guerrero, Miriam

- ♦ Specialist in Rheumatology at the Complex University Health Care Center of Leon
- ♦ Physician at the Defense Central Hospital Gomez Ulla
- ♦ Physician at the Doce de Octubre Hospital of Madrid
- ♦ Physician at Mostoles Hospital
- ♦ Degree in Medicine and Surgery from the Faculty of Medicine of Valladolid
- ♦ Master's Degree in Rheumatologic and Traumatologic Musculoskeletal Ultrasound of the Alcala University
- ♦ Master SER in Rheumatic Diseases mediated by the Immune System of the Rey Juan Carlos University
- ♦ Master's Degree in Applied Biostatistics in Health Sciences from the Seville University

Dr. Bonilla González-Laganá, Carmen

- ♦ Assistant Specialist in Rheumatology at the Infanta Cristina Hospital
- ♦ Assistant Specialist in Rheumatology at the Tajo Hospital
- ♦ Assistant Specialist in Rheumatology at the Infanta Elena Hospital
- ♦ Specialty of Rheumatology at the Severo Ochoa University Hospital
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid
- ♦ Member of the Spanish Society of Rheumatology, Society of Rheumatology of the Community of Madrid

Dr. González Hombrado, Laura

- ♦ Rheumatology Area Specialist at Tajo University Hospital
- ♦ Head of Patient Safety of the Rheumatology Section of the Tajo University Hospital
- ♦ Specialist in the Rheumatology Department of the 12 de Octubre Hospital of Madrid
- ♦ Specialist in Rheumatology at the Jimenez Diaz Foundation
- ♦ Associate Professor at the Alfonso X El Sabio University
- ♦ Degree in Medicine and Surgery from the Complutense University of Madrid
- ♦ Master SER in immune-mediated Rheumatic Diseases
- ♦ Member of the Spanish Society of Rheumatology and ECOSER group, Rheumatology Society of the Community of Madrid, President of the Continuing Education Commission of the Tajo University Hospital, Member of the Pain Commission of the Tajo University Hospital

04

Structure and Content

The effectiveness of the Relearning system, based on the continuous reiteration of essential content, has led TECH to incorporate it in all degree programs. In this way, students will have access to an advanced syllabus on the Postgraduate Certificate in Immune Mediated Pathology in Geriatrics, which will allow them to obtain an effective update without the need to invest many hours of study and memorization. So, you will get a complete upgrade in just 6 months.



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You have a complete Virtual Library, accessible from any electronic device with internet connection”

Module 1. Chronic Inflammatory Joint Diseases (Arthritis/Spondyloarthritis)

- 1.1. Molecular Biology and Pathophysiology of Chronic Inflammatory Joint Diseases
 - 1.1.1. Genomic Studies in Chronic Inflammatory Joint Diseases
- 1.2. Inflammation and Chronicity in the Geriatric Patient
 - 1.2.1. The Inflammatory Process: Mechanisms of Production
 - 1.2.2. Chronic Inflammation in the Geriatric Patient
 - 1.2.3. Immunosenescence
- 1.3. Epidemiologic Characteristics of Chronic Joint Diseases
 - 1.3.1. Epidemiology of Rheumatoid Arthritis
 - 1.3.2. Epidemiology of Spondylarthritis
- 1.4. Diagnostic Techniques in Inflammatory Joint Diseases
 - 1.4.1. Utility of Blood Analysis: General Analysis, Serum Markers, Autoantibodies
 - 1.4.2. Synovial Fluid Analysis
 - 1.4.3. Imaging Techniques: Simple Radiology, Musculoskeletal Ultrasound, Other Imaging Studies
- 1.5. Extra-articular Manifestations (Uveitis, Diffuse Interstitial Pulmonary Interstitial Disease: EPID, Inflammatory Bowel Disease, etc.)
 - 1.5.1. Ocular Manifestations
 - 1.5.2. Pulmonary Manifestations: EPID
 - 1.5.3. Gastrointestinal manifestations associated with chronic inflammatory joint diseases (IBD)
 - 1.5.4. Cutaneous manifestations
 - 1.5.5. Other Extra-Articular Manifestations
- 1.6. Rheumatoid Arthritis in the Geriatric Population
 - 1.6.1. Epidemiology and Etiopathogenesis
 - 1.6.2. Clinical Diagnosis
 - 1.6.3. Treatment
- 1.7. Spondyloarthritis in Geriatric Patients
 - 1.7.1. Epidemiology, Etiopathogenesis, and Classification
 - 1.7.2. Clinical Diagnosis
 - 1.7.3. Treatment
- 1.8. Seronegative Arthritis
 - 1.8.1. Classification
 - 1.8.2. Treatment





- 1.9. Synthetic Disease Modifying Drugs
 - 1.9.1. Classification
 - 1.9.2. Indications and Posology
 - 1.9.3. Adverse Effects and Interactions in the Pluripathological and Polymedicated Elderly
- 1.10. Disease-Modifying Drugs: Biologic Therapy and Small Molecules
 - 1.10.1. Classification
 - 1.10.2. Indications and Posology
 - 1.10.3. Adverse Effects and Interactions in the Pluripathological and Polymedicated Elderly

Module 2. Connectivopathies: Characteristics, Manifestations and Specific Care in the Geriatric Patient

- 2.1. Systemic Lupus Erythematosus: Clinical Differences and Diagnostic Challenges in Geriatric Population
 - 2.1.1. Introduction
 - 2.1.2. Etiopathogenesis and Epidemiology of SLE in the Geriatric Patient
 - 2.1.3. Diagnosis of SLE in the Geriatric Patient
 - 2.1.4. Clinical and Immunologic Features of Senile SLE
- 2.2. Treatment of Non-renal Senile Systemic Lupus Erythematosus
 - 2.2.1. Non-pharmacological methods
 - 2.2.2. Pharmacological Methods
- 2.3. Treatment of Renal Senile Systemic Lupus Erythematosus
 - 2.3.1. Non-pharmacological methods
 - 2.3.2. Pharmacological Methods
- 2.4. Antiphospholipid Syndrome (APS): Clinical Differences, Diagnostic Challenges and Treatment in Geriatric Population
 - 2.4.1. Introduction
 - 2.4.2. Etiopathogenesis and Epidemiology of FAS in the Geriatric Patient
 - 2.4.3. Diagnosis of FAS in the Geriatric Patient
 - 2.4.4. Clinical Characteristics and Peculiarities of FAS in Geriatric Population
- 2.5. Treatment of FAS in Geriatric Patients
 - 2.5.1. Non-pharmacological methods
 - 2.5.2. Pharmacological Methods
 - 2.5.3. Catastrophic PBS

- 2.6. Scleroderma: Clinical Differences and Diagnostic Challenges in Geriatric Population
 - 2.6.1. Introduction
 - 2.6.2. Etiopathogenesis and Epidemiology of Scleroderma in the Geriatric Patient
 - 2.6.3. Raynaud's Disease Peculiarities in the Geriatric Population and Differential Diagnosis
 - 2.6.4. Diagnosis and Clinical Features of Scleroderma in the Geriatric Patient
- 2.7. Scleroderma: Peculiarities of Treatment in the Geriatric Population
 - 2.7.1. Raynaud's Management
 - 2.7.2. Pharmacological Methods
- 2.8. Senile Sjögren's Syndrome: Clinical Differences and Diagnostic Challenges in Geriatric Population
 - 2.8.1. Introduction
 - 2.8.2. Etiopathogenesis and Epidemiology of Sjögren's Disease in the Geriatric Patient
 - 2.8.3. Diagnosis of Sjögren's in the Geriatric Patient, Is all Dryness Due to Sjögren's Syndrome?
 - 2.8.4. Clinical and Immunologic Features of Senile SLE
 - 2.8.5. Lymphoma and Sjögren's
- 2.9. Treatment of Sjögren's Disease in the Geriatric Population and its Peculiarities
 - 2.9.1. Glandular Manifestations
 - 2.9.2. Extraglandular Manifestations
- 2.10. Undifferentiated Connective Tissue Disease (UCD) and Mixed Connective Tissue Disease (MCTD) in the Geriatric Population
 - 2.10.1. Introduction
 - 2.10.2. Etiopathogenesis and Epidemiology of EITC and CTE
 - 2.10.3. Diagnosis and Clinical Features in the Geriatric Patient
 - 2.10.4. Treatment of EITC and CTE in the Geriatric Population



Module 3. Vasculitis, Myopathies and Other Systemic Diseases

- 3.1. Chronic Idiopathic Inflammatory Chronic Myopathies
 - 3.1.1. Characteristics and Classification
 - 3.1.2. Treatment, Evolution and Prognosis
- 3.2. Vasculitis
 - 3.2.1. Epidemiology
 - 3.2.2. Classification
- 3.3. Large Vessel Vasculitis
 - 3.3.1. Giant Cell Arteritis and Polymyalgia Rheumatica
 - 3.3.2. Takayasu's Arteritis
- 3.4. Polyarteritis Nodosa
 - 3.4.1. Epidemiology
 - 3.4.2. Clinical Manifestations
 - 3.4.3. Treatment
- 3.5. Small Vessel Vasculitis Mediated by Immunocomplexes
 - 3.5.1. Hypersensitivity Vasculitis
 - 3.5.2. IgA Vasculitis
 - 3.5.3. Cryoglobulinemic Vasculitis
 - 3.5.4. Hypocomplementemic Urticarial Vasculitisi
- 3.6. ANCA-Positive Vasculitis
 - 3.6.1. Granulomatosis with Polyangiitis (Wegener's Granulomatosis)
 - 3.6.2. Eosinophilic Granulomatosis with Polyangiitis (Churg-Strauss Disease)
 - 3.6.3. Microscopic Polyangiitis
 - 3.6.4. Treatment of ANCA-Positive Vasculitis
- 3.7. Miscellaneous
 - 3.7.1. Behçet's Disease
 - 3.7.2. Relapsing Polychondritis
 - 3.7.3. Single Organ Vasculitis

- 3.8. Pseudovasculitic Syndromes: Vasculitis Associated with Systemic Disease
- 3.9. Sarcoidosis From the Rheumatologic Point of View
 - 3.9.1. Clinical Manifestations
 - 3.9.2. Diagnosis and Treatment
- 3.10. Adult Still's Disease
 - 3.10.1. Epidemiology
 - 3.10.2. Clinical Manifestations
 - 3.10.3. Diagnosis and Treatment



It deepens through the best didactic material on the latest scientific advances in the treatment of Sjögren's disease in the geriatric population"

05

Methodology

This academic program offers students a different way of learning. Our methodology follows a cyclical learning process: **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

What should a professional do in a given situation? 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 physician'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. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate 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.



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.

Professionals will learn through real cases and by resolving 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, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. 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 specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to 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.



Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current 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 on the usefulness of learning by observing experts. The system known as 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 Immune Mediated Pathology in Geriatrics guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma 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 Immune Mediated Pathology in Geriatrics** 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 Diploma**, issued by **TECH Technological University** via tracked delivery*.

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

Title: **Postgraduate Certificate in Immune Mediated Pathology in Geriatrics**

Official N° of Hours: **450 h.**



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION 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 language

virtual classroom

tech technological
university

Postgraduate Diploma

Immune Mediated Pathology in Geriatrics

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

Postgraduate Diploma

Immune Mediated Pathology in Geriatrics

