

# Postgraduate Certificate

## Leprosy





## Postgraduate Certificate Leprosy

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

Website: [www.techtute.com/us/medicine/postgraduate-certificate/leprosy](http://www.techtute.com/us/medicine/postgraduate-certificate/leprosy)

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# 01

# Introduction

Leprosy is currently much less prevalent than other infectious diseases such as tuberculosis. However, its incidence is still present in many parts of the world and has not been eradicated. That is why the medical professional must be prepared to treat this type of patients and know in detail the latest scientific evidence related to their clinical management and treatment. And in order to bring you up to date in a comfortable, quick and easy way, TECH has developed this complete program that includes a syllabus adapted to the latest developments in Microbiology presented in a 100% online way.





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*You have before you a unique opportunity to know in detail the medical advances that have been made regarding Leprosy in a 100% online way"*

Leprosy is an infectious disease caused by the bacterium *Mycobacterium Leprae*, which causes skin ulcers, neurological damage and muscle weakness that worsens over time. The worsening of the patient's quality of life is therefore notorious, especially in children and adolescents. That is why the early and accurate intervention of the medical professional is necessary, but it is also necessary to work with the most up-to-date information, based on the latest scientific evidence in microbiology.

That is why TECH has developed a Postgraduate Certificate in Leprosy, a program designed by experts in the sector that covers everything from the evolution to the relevant aspects to be taken into account when diagnosing a clinical picture associated with this pathology. The specialist will be up to date on the etiopathogenesis and epidemiology of the infection, as well as on the clinical classification, pathological anatomy and the latest techniques for its recognition and treatment. Finally, it will delve into the importance of its prevention and control.

All this, framed in a dynamic syllabus and presented in a convenient 100% online format that also includes hours of additional high-quality material to contextualize the information and delve into the sections that the graduate deems necessary. All the content will be available from the beginning of the educational activity and can be downloaded to any device with an Internet connection for later consultation.

This **Postgraduate Certificate in Leprosy** contains the most complete and up-to-date scientific program on the market. The most important features include:

- » The development of practical cases presented by experts in Medicine and Microbiology
- » 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
- » Content that is accessible from any fixed or portable device with an Internet connection



*Delving into the etiopathogenesis of Leprosy will allow you to get up to date on the possible origins of the disease and to apply preventive measures in its context"*

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*Would you like to delve into the pathogenesis of Leprosy? This program includes hours of the best additional material for you to delve in a personalized way in the aspects that interest you the most"*

*You will learn the latest scientific evidence related to the clinical classification of leprosy: lepromatous, tuberculoid and Borderline.*

*You will be able to access the Virtual Classroom at any time and from any device with an Internet connection.*

The program's teaching staff includes professionals from the sector who contribute their work experience to this educational 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 learn in 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, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.



# 02 Objectives

Although Leprosy is a disease that, with the passage of time, has been controlled, its eradication is still far away. For this reason, medical specialists must periodically update their knowledge to enable them to implement the scientific evidence related to advances in medicine and microbiology in their strategies and techniques, which is why this Postgraduate Certificate has been designed. Its objective is, therefore, to serve as a guide in their updating through the provision of the best syllabus and the most modern teaching tools in the sector.





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*As long as cases of Leprosy continue to exist, medical professionals will continue to need qualifications such as those offered by TECH to keep them up to date on all aspects of this and other diseases”*



## General Objectives

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- » Acquire a general, up-to-date and complete knowledge of the current medical situation of Leprosy in society
- » Provide the graduate with the necessary educational material that will allow them to be up to date on the latest diagnostic developments of this condition



*Whatever your goals are, TECH and its team will guide you to not only achieve them, but to surpass them with total guarantee"*





## Specific Objectives

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- » Become familiar with the evolution and current problems of infections caused by the Mycobacterium Leprae complex
- » Delve into the reservoirs and the different routes of transmission of this pathology, as well as the etiopathogenesis and epidemiology
- » Learn the different clinical classifications of the disease and its anatomopathological study
- » In-depth knowledge of the diagnostic techniques and treatment of this infection including the development of resistance

03

# Course Management

The graduate who accesses this program will find the support of a teaching team specialized in Microbiology and Infectious Diseases, with a wide and extensive work experience in the clinical management of patients with Leprosy. They are active professionals with teaching experience, so they will know how to transmit their knowledge in a dynamic way and based on the latest developments in the sector, an aspect that the graduate will be able to take advantage of to get more out of this educational experience.



A close-up photograph of a light-colored dog's paw resting on a wooden surface. The paw is positioned in the lower-left quadrant of the frame, with its fur appearing soft and slightly damp. The wooden surface has a clear grain pattern. The background is a dark blue, textured fabric, possibly a sweater or blanket, which is partially visible behind the paw. The overall composition is split diagonally by a white line that runs from the bottom-left corner towards the top-right, separating the image from the text area.

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*During the course of the program, you will have the support of the teaching team to answer any questions you may have about the syllabus"*

## Management



### Dr. Sánchez Romero, María Isabel

- » Area Specialist in the Microbiology Department of the Puerta de Hierro Majadahonda University Hospital, Madrid
- » PhD in Medicine and Surgery from the University of Salamanca
- » Medical Specialist in Clinical Microbiology and Parasitology
- » Member of the Spanish Society of Infectious Diseases and Clinical Microbiology
- » Technical Secretary of the Madrid Society of Clinical Microbiology

## Professors

### Dr. Losada, Carmen

- » Community Pharmacist and at Wetones Clinical Analysis Laboratory
- » Degree in Pharmacy from the Alfonso X El Sabio University
- » Specialization in Pharmacy Office by Alfonso X El Sabio University
- » Master's Degree in Orthopedics from the University of Salamanca
- » Master of Business Administration (MBA) Executive by the Business School of Valladolid

### Dr. Portero Azorín, María Francisca

- » Acting Head of the Microbiology Service at the Puerta de Hierro Majadahonda University Hospital
- » Specialist in Microbiology and Clinical Parasitology at the Puerta de Hierro University Hospital
- » Doctorate in Medicine from the Autonomous University Madrid
- » Postgraduate in Clinical Management by Gaspar Casal Foundation
- » Research stay at the Presbyterian Hospital of Pittsburgh through a FISS scholarship



# 04

## Structure and Content

TECH has designed this program taking into account three factors: the professional criteria of the teaching team, the most current information and the use of the Relearning pedagogical methodology. In this way, it is possible to create a complete and dynamic program that, thanks to its 100% online format, will allow thousands of specialists from all over the world to update and expand their knowledge about Leprosy from anywhere and with a totally personalized schedule. It is, without a doubt, the perfect educational option to keep up to date in a way that is compatible with your professional and personal life.





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*You will have at your disposal real clinical cases with which you will be able to put into practice your skills and perfect your medical competences in the management of patients with Leprosy”*

## Module 1. Leprosy

- 1.1. Evolution
- 1.2. Reservoirs and Transmission
- 1.3. Etiopathogenesis
- 1.4. Epidemiology
- 1.5. Clinical Classification
  - 1.5.1. Lepromatous Leprosy
  - 1.5.2. Tuberculoid Leprosy
  - 1.5.3. Borderline Leprosy
- 1.6. Pathologic Anatomy
- 1.7. Diagnosis
  - 1.7.1. Clinical Suspicion
  - 1.7.2. Sample Collection
  - 1.7.3. Common Techniques
  - 1.7.4. Molecular Techniques
- 1.8. Treatment
  - 1.8.1. Resistance Development
- 1.9. Prevention and Control
- 1.10. Relevant Aspects





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*In addition to the syllabus, in the virtual classroom, you will find detailed videos, research articles and complementary readings so that you can expand on each section in a personalized way”*

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

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

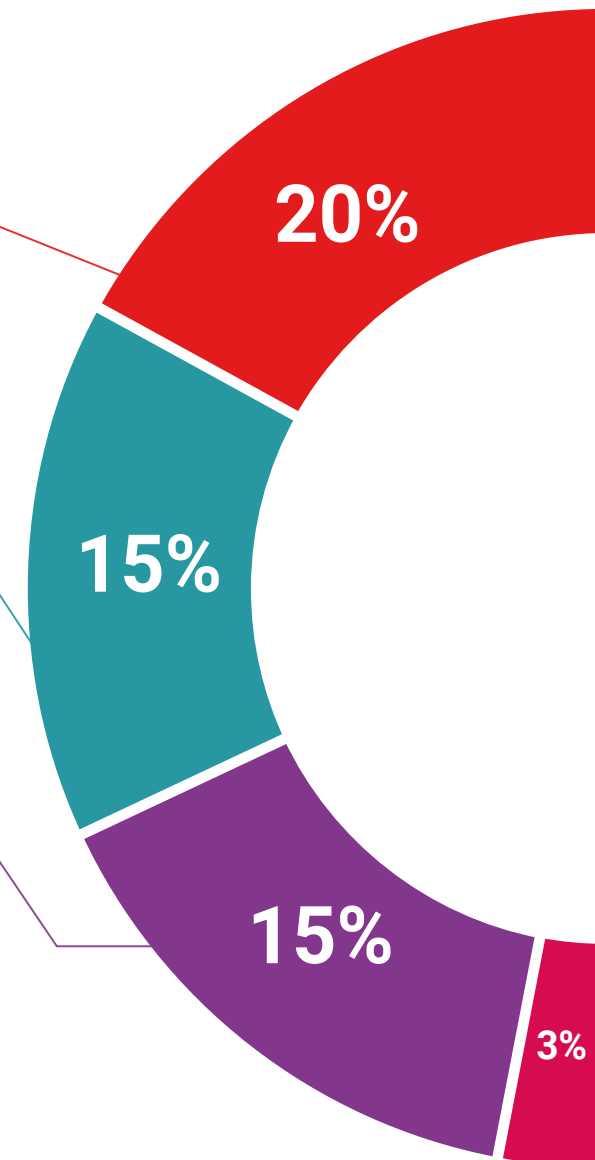
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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 Leprosy 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 Leprosy** contains the most complete and up-to-date scientific program on the market.

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

The diploma 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 in Leprosy**

Official N° of Hours: **150 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 quality  
development languages  
virtual classroom



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

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