

# Hybrid Professional Master's Degree

## Advances in Tropical Diseases





## Hybrid Professional Master's Degree Advances in Tropical Diseases

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Global University

Credits: 60 + 4 ECTS

Website: [www.techtute.com/us/medicine/hybrid-professional-master-degree/hybrid-professional-master-degree-advances-tropical-diseases](http://www.techtute.com/us/medicine/hybrid-professional-master-degree/hybrid-professional-master-degree-advances-tropical-diseases)

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# 01

# Introduction

For years, science has searched for optimal means of diagnosis and treatment for Tropical Diseases. This research has contributed to the emergence of modern medical strategies and the development of potent vaccines. The continuous evolution of this discipline invites specialists to keep up to date. However, there are not enough educational programs that offer a holistic view of this branch of health. Therefore, this degree emerges, with a study modality unique in its field. The program is composed of two stages, offering a theoretical learning moment, from a 100% online platform and the support of didactic methods such as *Relearning*. Then, it proposes a clinical practice, face-to-face and immersive, where different skills will be learned in a direct and effective way.



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*Enroll now in this Hybrid Professional Master's Degree and achieve unprecedented professional success, based on your up-to-date mastery of the latest trends in Internal Medicine to treat Tropical Diseases"*

The recent development of vaccines against pathologies such as Malaria are evidence of the tireless work of biotechnologists and physicians to find more effective ways of dealing with Tropical Diseases. The prevention of the pathogens that cause these diseases is one of the areas that has evolved the most in recent years, promoting increasingly safer strategies. At the same time, the diagnosis and treatment of these diseases has also undergone innovations, with the appearance of complex tools and care resources that contribute to the proper management of patients. Keeping up to date with all these elements is a major challenge for healthcare professionals. In general, they only have programs with a high theoretical load that does not help them to develop skills for the on-site approach to the patients in their care.

TECH, aware of the difficulties of this educational scenario, has designed a pioneering program that offers the most complex concepts in this field, while at the same time, puts into practice its different applications. This is possible thanks to its innovative academic modality, divided into two fundamental parts. In the first part, the doctor will have access to a 100% online study platform, with interactive and multimedia resources, which will enhance their learning. In addition, they will have the support of modern didactic methods such as *Relearning* and a team of excellence teachers.

On the other hand, in the second phase, the specialist will move to a prestigious hospital institution where, for 3 weeks, they will apply everything they have learned. This face-to-face, practical and immersive internship has been designed to provide first-level care to real patients using the latest technological and healthcare resources. Likewise, the physician will have the opportunity to choose the facility that best suits their educational needs and geographic location. This is possible thanks to the wide network of agreements with which TECH has incorporated first class centers to its internships. From these entities, the graduate will have the opportunity to elevate their career under the guidance of great experts who will supervise their progress at all times.

This **Hybrid Professional Master's Degree in Advances in Tropical Diseases** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Development of more than 100 clinical cases presented by specialists in Internal Medicine with expertise in the diagnosis and treatment of tropical diseases
- ♦ 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
- ♦ Updated diagnostic methods for the detection of a wide range of tropical pathologies
- ♦ Modern treatments to combat pathologies such as hemorrhagic fevers, Dengue or Zika virus diseases
- ♦ Diagnostic and therapeutic approach to diseases for the patient who has recently traveled abroad
- ♦ All of this will be complemented by 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
- ♦ Furthermore, you will be able to carry out a clinical internship in one of the best hospital centers



*During the theoretical study of this Hybrid Professional Master's Degree, you will learn about the latest criteria to be taken into account to establish the diagnosis of a Tropical Disease"*

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*In just 3 weeks of practical face-to-face internship, TECH will help you expand your skills in the management of conditions generated by tropical bacteria"*

This Hybrid Professional Master's Degree program, of a professionalizing nature and a blended learning modality, is designed to update medical professionals who work in the field of tropical diseases treatment. The contents are based on the latest scientific evidence, and oriented in an educational way to integrate theoretical knowledge in medical practice, and the theoretical-practical elements will facilitate the updating of knowledge and will allow decision making in the patient management.

Thanks to the multimedia content, developed with the latest educational technology Medicine professionals will benefit from situated and contextual learning, which means a simulated environment that will provide immersive learning programmed to learn in real situations. This program is designed around Problem-Based Learning, whereby the physician must try to solve the different professional practice situations that arise during the course. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*Through this study program, you will acquire the latest skills on how to establish an efficient treatment for skin injuries suffered by a patient who has traveled abroad.*

*You will use different technological tools that facilitate the diagnosis of pathogens that cause Tropical Diseases of diverse complexity in the clinical practice of this program.*



02

# Why Study this Hybrid Professional Master's Degree?

Tropical Diseases, due to their virulence and often severity, have driven a large number of scientific researches that, in recent years, have promoted innovations in terms of prevention, diagnosis and control. Keep the specialist up-to-date on all these aspects, TECH offers this very complete program, consisting of two well differentiated stages. This Hybrid Professional Master's Degree, with a theoretical learning phase and a face-to-face clinical practice phase, will allow the medical professional to incorporate advances of high academic weight in the management of complex conditions such as Malaria, Leprosy, among others, into his daily work.





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*TECH, the world's largest online university, puts in your hands a syllabus that will prepare you in relation to the most complete international protocols on the management of Tropical Diseases"*

### 1. Updating from the Latest Technology Available

For the diagnosis and prevention of Tropical Diseases, science has managed to promote increasingly sophisticated methods and equipment. Through this program, the specialist will have access to all of them and will learn how to manage these technological tools to get the best possible results, without margins of doubt, false positives and other incongruent results.

### 2. Gaining In-depth Knowledge from the Experience of Top Specialists

During this program, the doctor will be able to develop new knowledge with the support of prestigious experts. In its first phase, 100% online and theoretical, you will have a first class teaching team that will facilitate the mastery of concepts of great interest and updating. Likewise, during the second stage, you will exchange with specialists who will help you expand your practical skills in a face-to-face environment, directly and with real patients.

### 3. Entering First-Class Clinical Environments

In order to select the centers that are part of this program, TECH has taken into account multiple parameters. First, it has verified that the technological and assistance resources of these entities are optimal for the discovery and analysis of pathogens that cause Tropical Diseases. In addition, it is expected that these centers have the best personnel, qualified to deal with these conditions with the most modern competencies.



#### 4. Combining the Best Theory with State-of-the-Art Practice

With this Hybrid Professional Master's Degree, TECH offers the opportunity to put into practice the most innovative knowledge in the field of Advances in Tropical Diseases, from a face-to-face, immersive and comprehensive stay. This learning process, optimal for those who wish to expand their healthcare skills, is distinguished from others in the market by executing all its theoretical content in a rigorous hospital environment, with real patients and directly correcting the doctor's progress.

#### 5. Expanding the Boundaries of Knowledge

TECH offers the possibility to complete the clinical practice of this program in a center of international importance. In this way, the doctor will be able to expand their academic frontiers according to the most updated criteria of the professional field and practice from prestigious hospitals. This opportunity is one of the unique aspects of this program that only the world's largest online university could offer.

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*You will have full practical immersion  
at the center of your choice”*

# 03 Objectives

Based on a pioneering study modality, TECH has designed a program that brings together the main novelties in the field of Tropical Diseases. At the same time, it aims to enable the specialist to apply everything they have learned immediately in their own practices and internal medicine units. For this reason, the program has specific academic objectives that the professional will have to pass before completing this program.





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*During this Hybrid Professional Master's Degree you will learn more about the characteristics that distinguish vector-borne and non-vector-borne parasitic diseases”*



## General Objective

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- The general objective of the Hybrid Professional Master's Degree in Advances in Tropical Diseases is to provide the professional with an in-depth update on the most relevant aspects related to the prevention, diagnosis and treatment of this class of pathologies. This program, based on the latest scientific evidence, also offers the physician the mastery of the international protocols of action against this kind of affections, with a multidisciplinary and integrative approach that facilitates the control of different pathogens



*The innovative method applied by TECH for the learning of this Hybrid Professional Master's Degree will help you to achieve a holistic preparation with respect to all the advances in relation to Tropical Diseases"*





## Specific Objectives

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### Module 1. Tropical Pathology and International Health

- ♦ Implement plans for the prevention of tropical diseases
- ♦ Highlight and note the role of the infectologist in the control of tropical diseases

### Module 2. Microbiology, Genetics, and Immunology of Tropical Diseases

- ♦ Delve into microbiological, genetic and immunological research in tropical diseases
- ♦ Highlight vaccine development for tropical diseases
- ♦ Emphasize the development of future antibiotics and other therapeutic modalities for infectious diseases

### Module 3. Tropical Viral Diseases I

- ♦ Assess and interpret the epidemiological, climatological, social, cultural and sanitary characteristics and conditions of tropical countries that favor the emergence and development of infectious diseases and their spread to other regions

### Module 4. Tropical Viral Diseases II

- ♦ Address in detail and depth the most up-to-date scientific evidence in the vast world of vector control and tropical viral diseases
- ♦ Explain the pathogenic mechanisms and the most frequent neoplasms associated with infectious agents in the tropics

### Module 5. Bacterial Tropical Diseases

- ♦ Identify the main germs involved in foodborne infections and their clinical significance in tropical regions

### Module 6. Tropical Fungal Diseases

- ♦ Master the main characteristics of Paracoccidioidomycosis, Coccidioidomycosis, Blastomycosis, Cryptococcosis or Candidiasis

### Module 7. Parasitic Diseases

- ♦ Delve into the study of the most important parasitosis and neglected diseases in tropical regions
- ♦ Detect the important global health problem in tropical regions that causes Zoonosis

### Module 8. Vector-Transmitted Parasitic Diseases

- ♦ Explain the clinical, diagnostic, and therapeutic elements of neglected tropical diseases

### Module 9. Non-Vector Parasitic Diseases

- ♦ Understand the epidemiology, microbiology and clinical picture of non-vectorial parasitic diseases
- ♦ Describe the diagnosis and treatment of non-vectorial parasitic diseases

### Module 10. Travel Medicine and International Health

- ♦ Provide clinical diagnosis of certainty supported by the efficient utilization of the most up-to-date methods to indicate an effective integral therapy
- ♦ Explain the complex interrelationships between etiological germs and risk factors for the acquisition of these diseases

# 04 Skills

After successfully passing the evaluations of the Hybrid Professional Master's Degree in Advances in Tropical Diseases, the student will have broad competencies in the diagnosis and treatment of various tropical diseases, which will position them as a leading professional in the area of Internal Medicine.







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*Integrate into your professional practice the latest techniques to isolate, identify and develop therapeutic strategies against Tropical Diseases of various kinds"*



## General Skills

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- Increase the doctor's diagnostic and therapeutic capabilities for tropical diseases
- Improve the student's skills to manage, advise or lead multidisciplinary teams in the study of tropical diseases
- Improve the doctor's health practice with patients with sequelae of tropical diseases
- Master the dispensing, monitoring or provision of antimicrobial medications for tropical diseases

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*You will acquire, through TECH, a broad knowledge of the prophylaxis against Tropical Diseases taking as a starting point vaccines recently designed and launched to the market”*





## Specific Skills

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- Master the biological, epidemiological, and social determinants that favor the development of tropical diseases and their impact on morbidity and mortality rates
- Identify and analyze the latest scientific information in Tropical Medicine and International Health to design plans and programs for disease control
- Apply existing control measures to prevent the transmission of these diseases between countries in real and/or simulated situations
- Timely detection of the appearance of new diseases or the rise of emerging or re-emerging diseases
- Establish timely diagnoses of the most frequent or new tropical infections based on clinical manifestations for their correct treatment, rehabilitation, and control
- Identify the occupational, social, and environmental risk factors that favor the development of these tropical diseases
- Apply prevention and control measures to reduce morbidity and mortality caused by these pathologies in tropical regions and regions where they have spread
- Master the clinical, epidemiological, diagnostic, and therapeutic elements for the main epidemiological threats in the world population and tropical regions, such as Arbovirosis, HIV/AIDS infection, parasitosis, TB, and hemorrhagic diseases
- Halt the progression of antibiotic resistance based on rational therapeutics and supported by the best scientific evidence
- Correctly use and interpret all microbiological studies and other diagnostic resources in the care of their patients

# 05

# Course Management

In order to preserve the excellent educational quality that characterizes TECH's programs, this Hybrid Professional Master's Degree has a teaching team made up of specialists in Internal Medicine with extensive experience in the treatment of tropical diseases. Likewise, the didactic resources to which the student will have access during the duration of this program are elaborated by these experts, so that all the contents provided will have full professional applicability.





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*Expand your knowledge in the area of tropical diseases with the best specialists in Internal Medicine, experts in the treatment of these pathologies"*

## International Guest Director

Dr. Daniel Caplivski is a leading specialist in Infectious Diseases with an extensive international clinical and academic career. As such, he has held high-ranking positions such as Director of the Travel Medicine Program at the Icahn School of Medicine, Mount Sinai Hospital, New York.

This outstanding professional has been recognized for his focus on Tropical and Travel Medicine, helping to prepare adults traveling to countries where Infectious Diseases, such as Malaria, Dengue and Yellow Fever, are common. He also has extensive experience in the application of vaccines of importance to travelers, such as Hepatitis, Tetanus and Japanese Encephalitis. In this regard, among his conscientious training, it is worth mentioning the prestigious Gorgas Postgraduate Certificate in Clinical Tropical Medicine, in Peru, a specialization in the diagnosis and treatment of diseases acquired abroad.

Likewise, throughout his career, Dr. Daniel Caplivski has been recognized for his medical excellence. So much so, that he has been included in the list of the Best Doctors in the New York Metropolitan Area, every year since 2013, by the publishing organization Castle Connolly, as well as in New York Magazine's Best Doctors list, since 2015. Likewise, among his numerous awards, the Physician Communication Excellence Award stands out, in addition to having been recognized as one of America's Most Honored Doctors.

In short, he has been a reference in the research, diagnosis and treatment of rare and complex infections, contributing to the field of Infectious Diseases at a global level. His dedication and commitment to his patients have positioned him as one of the most recommended and respected physicians in his field.



## Dr. Caplivski, Daniel

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- Director of the Travel Medicine Program at Mount Sinai Hospital, New York, USA
- Physician at Mount Sinai Hospital, New York
- Gorgas Postgraduate Certificate in Clinical Tropical Medicine, Peru
- Specialist in Internal Medicine and Infectious Diseases at Mount Sinai Hospital, Mount Sinai, New York
- Doctor of Medicine, Yale University
- B.A. in History and Literature from Harvard University

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*Thanks to TECH, you will be able to learn with the best professionals in the world”*

## Management



### Dr. Díaz Menéndez, Marta

- ♦ Specialist in Internal Medicine with expertise in Tropical Diseases
- ♦ Specialist in Internal Medicine at the High Level Isolation Unit of the Hospital La Paz-Carlos III
- ♦ Specialist in Internal Medicine at the Tropical and Travel Medicine Unit of the Hospital La Paz- Carlos III
- ♦ Attending Doctor of the Infectious Diseases Service of the Ramón y Cajal Hospital
- ♦ Doctor in the Internal Medicine Department of the Santa Cristina Hospital
- ♦ Author of numerous scientific publications
- ♦ Professor in infectious disease and tropical pathology courses
- ♦ Doctorate in Medicine from the Autonomous University Madrid
- ♦ Master's degree in HIV Infection at the Rey Juan Carlos University



## Professors

### Dr. Untoria Tabares, Yeray

- ♦ Specialist in Internal Medicine with expertise in Tropical Diseases.
- ♦ Resident Intern, Internal Medicine La Paz University Hospital
- ♦ Speaker at several Internal Medicine congresses
- ♦ Master's Degree in Infectious Diseases and Antimicrobial Treatment from CEU Cardenal Herrera University
- ♦ Professional Master's Degree in Clinical Medicine from the Camilo José Cela University
- ♦ Postgraduate Diploma in Microbiological Diagnosis, Antimicrobial Treatment and Research in Infectious Pathology from CEU Cardenal Herrera University
- ♦ Postgraduate Diploma in Community and Nosocomial Infections from CEU Cardenal Herrera University
- ♦ Postgraduate Diploma in Chronic Infectious Diseases and Imported Infections from CEU Cardenal Herrera University

### Dr. Trigo Esteban, Elena

- ♦ Specialist in Internal Medicine with expertise in Tropical Diseases
- ♦ Specialist in Tropical and Travel Medicine at Hospital Carlos III-Hospital Universitario La Paz
- ♦ Assistant Doctor in the Emergency Department of the Vega Baja Hospital
- ♦ Clinical Coordinator of a COVID 19 Inpatient Facility during the epidemic peak
- ♦ Author of hundreds of scientific articles on her medical specialty
- ♦ Master's Degree in Tropical and Health Medicine from the Autonomous University of Madrid

### Falces Romero, Iker

- ♦ Specialist in the Microbiology and Parasitology Department at La Paz University Hospital
- ♦ Professor of Special Microbiology on the Degree in Medicine at the Autonomous University of Madrid
- ♦ Degree in Pharmacy from the University of Salamanca
- ♦ Master in Tropical Diseases from the University of Salamanca

### Dr. De la Calle Prieto, Fernando

- ♦ Physician in the Tropical and Travel Medicine Unit of the Carlos III-La Paz Hospital
- ♦ High Level Isolation Unit. La Paz University Hospital- Carlos III
- ♦ Emergency Department of Internal Medicine as an Assistant Doctor of the Hospital 12 de Octubre
- ♦ On-call medical staff at the Gregorio Marañón University General Hospital
- ♦ Degree in Medicine and Surgery from the University of Alcalá de Henares
- ♦ Master's Degree in Tropical and Health Medicine from the Autonomous University of Madrid
- ♦ Collaborating doctor in the Department of Internal Medicine, Faculty of Medicine, Complutense University of Madrid
- ♦ Member of the Spanish Society of Cosmetic Medicine and International Health
- ♦ Member of the Spanish Society of Infectious Diseases and Clinical Microbiology

#### **Dr. Marcelo Calvo, Cristina**

- ♦ Internal Medicine Specialist and Researcher at Hospital Universitario La Paz
- ♦ Professional Master's Degree in Infectious Diseases and Microbiological Diagnosis from CEU Cardenal Herrera University
- ♦ Professional Master's Degree in Integration and Clinical Problem Solving in Medicine from the University of Alcalá, Spain
- ♦ Postgraduate Diploma in Community and Nosocomial Infections from CEU Cardenal Herrera University
- ♦ Postgraduate Diploma in Chronic Infectious Diseases and Imported Infections from CEU Cardenal Herrera University
- ♦ Degree in Medicine and Surgery from the University of Alcalá

#### **Dr. Díaz Pollán, Beatriz**

- ♦ Internal medicine specialist with experience in infectious diseases
- ♦ FEA, Department of Internal Medicine, Infectious Diseases Unit, Hospital Universitario La Paz, Madrid
- ♦ Associate Doctor of the Department of Internal Medicine, Infectious Diseases Unit, Hospital San Carlos
- ♦ Associate researcher in several research projects
- ♦ Author of dozens of scientific articles on infectious diseases
- ♦ Professional Master's Degree in Infectious Diseases and Antimicrobial Treatment from CEU Cardenal Herrera University
- ♦ Specialist in community and non-communicable infections by CEU Cardenal Herrera
- ♦ Specialist in Chronic Infectious Diseases and Imported Infectious Diseases by CEU Cardenal Herrera
- ♦ Member of the Spanish Society of Infectious Diseases and Clinical Microbiology

#### **Dr. Arsuaga Vicente, Marta**

- ♦ Specialist in the Tropical Medicine and Travel Medicine from the Medicine Unit at La Paz University Hospital
- ♦ Unidad del Alto Aislamiento (UANL) for pathogens of high lethality at Hospital La Paz and Hospital Carlos III, participating in the treatment of several patients admitted to the and Hospital Carlos III, participating in the treatment of several patients admitted with hemorrhagic fevers (E. Ebola and E. Crimea-Congo)
- ♦ WHO/PAHO Temporary Advisor during the Ebola Virus Disease Crisis in Barbados, St. Lucia and Grenada
- ♦ Professor at the Tropical Medicine Unit of UAN
- ♦ Doctorate in Medicine from the Autonomous University Madrid
- ♦ Degree in Medicine and Surgery from the University of Alcalá
- ♦ Specialist in Internal Medicine from the Autonomous University Madrid
- ♦ Master's Degree in Tropical Medicine and International Health from the AUM
- ♦ Postgraduate Diploma in Emerging Viruses from the Autonomous University of Navarra

#### **Dra. de Miguel Buckley, Rosa**

- ♦ Specialist in the Infectious Diseases, HIV and Tropical Medicine and Travel Medicine units of the and Traveler of Hospital Universitario La Paz
- ♦ Doctor in the Digestive Service, Hepatology Section, Cork University Hospital
- ♦ International Federation of Medical Students' Associations Professional Exchange Medical Students' Associations
- ♦ Cardiology Service, at The Medical University of Bialystok Clinical Hospital
- ♦ Collaborator in Health Research Fund (FIS) projects
- ♦ Degree in Medicine, University of Seville



**Dr. Arribas López, José Ramón**

- ♦ Department Head of the Infectious Diseases and Clinical Microbiology Unit at the Hospital Universitario La Paz
- ♦ Coordinator of the High Level Isolation Unit at the Hospital La Paz - Carlos III
- ♦ Director of the Research Institute of Hospital Universitario la Paz (IdiPAZ)
- ♦ Director of the Hospital Universitario la Paz Foundation
- ♦ Doctor in the Infectious Diseases Unit of Barnes Hospital in the USA
- ♦ Doctor of Medicine, UAM
- ♦ Member of the Inter-Ministerial Committee for the Management of the Ebola Crisis

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*The didactic materials of this program, elaborated by these specialists, have contents that are completely applicable to your work experience”*

# 06

## Educational Plan

The syllabus of this degree is composed of 10 modules through which the student will delve into the diagnostic and therapeutic aspects of tropical diseases, acquiring a series of knowledge supported by the latest scientific evidence. The didactic contents that will be available throughout this blended Hybrid Professional Master's Degree are presented in a wide range of textual and interactive formats that, through a 100% online method, will turn learning into an experience adapted to the particularities of each student.





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*Enjoy the 100% online modality of this program and expand your knowledge in the treatment of tropical diseases without leaving your own home”*

## Module 1. Tropical Pathology and International Health

- 1.1. Tropical Medicine Today
- 1.2. One Health: Importance and Impact on Tropical Diseases
- 1.3. Conditioning Factors in Tropical Diseases
- 1.4. Emerging, Re-Emerging, and Imported Diseases: Concept and Implications
- 1.5. Epidemiological Strategies for Tropical Disease Control
- 1.6. Vector Control: Concept and Implications
- 1.7. Global Programs for the Prevention, Diagnosis, and Treatment of Tropical Diseases
- 1.8. Epidemiological Surveillance of Tropical Diseases. Information Sources
- 1.9. International Health Determinants. Health Indicators
- 1.10. Applying the Epidemiological Method to the Study of Tropical Diseases

## Module 2. Microbiology, Genetics, and Immunology of Tropical Diseases

- 2.1. The Microbiology Laboratory in the Diagnosis of Tropical Diseases
- 2.2. Molecular Biology in the Diagnosis of Tropical Diseases
- 2.3. Rapid Diagnostic Methods in Tropical Diseases
- 2.4. Genomics in Tropical Diseases
- 2.5. Host Genetic Factors and Their Influence on the Severity of Imported Diseases
- 2.6. Immune Response to Tropical Diseases
- 2.7. Immunosuppression and its Implication in Tropical Diseases
- 2.8. Vaccines: basic concepts. Immunopreventable Diseases. Impact of Vaccination Programs
- 2.9. The Study of Antimicrobial Resistance in Tropical Diseases
- 2.10. The Role of Microbiology in Countries With Low Health Resources





### Module 3. Tropical Viral Diseases I

- 3.1. Vector-Borne Viral Infections and their Global Spread
- 3.2. Hemorrhagic Fevers I: Ebola and Marburg Virus Disease
- 3.3. Hemorrhagic Fevers II: Lassa Disease
- 3.4. Hemorrhagic Fevers III: Crimean-Congo Hemorrhagic Fever
- 3.5. Dengue Virus Disease
- 3.6. Zika Virus Disease
- 3.7. Chikungunya virus disease and other viral diseases with joint involvement
- 3.8. Yellow fever
- 3.9. Rift Valley Fever, Japanese E, West Nile
- 3.10. Nipah and Henipah Virus

### Module 4. Tropical Viral Diseases II

- 4.1. Monkeypox and Other Exanthematous Viral Diseases
- 4.2. Coronavirus Infections
- 4.3. Hantavirus Infections
- 4.4. HIV and other Retroviruses in the Tropics
- 4.5. Rabies Virus Disease
- 4.6. Poliomyelitis and Other Polioviruses
- 4.7. Viral Hepatitis
- 4.8. Other Emerging Viruses and Disease X
- 4.9. Prevention of Viral Diseases: General Measures and Available Vaccines
- 4.10. Pharmacological Treatment of Tropical Viral Diseases

### Module 5. Bacterial Tropical Diseases

- 5.1. Typhoid Fever. Diarrhea of bacterial origin: cholera, Shigella and Campylobacter
- 5.2. Relapsing Fever (Borreliosis), Melioidosis, Bartonellosis, Bartonellosis
- 5.3. Leptospirosis
- 5.4. Bacterial Meningitis in the Tropics
- 5.5. Rickettsiosis
- 5.6. Endemic Treponematoses
- 5.7. Tuberculosis and Buruli Ulcer
- 5.8. Plague: Historical Overview and Current Situation
- 5.9. Leprosy: Historical Overview and Current Situation
- 5.10. Sexually Transmitted Infections in the Tropics

### Module 6. Tropical Fungal Diseases

- 6.1. Mycology in Tropical Regions
- 6.2. Superficial Mycoses: Dermatophytosis and Tinea Pedis
- 6.3. Mycetoma
- 6.4. Sporotrichomycosis and Chromoblastomycosis
- 6.5. Histoplasmosis
- 6.6. Paracoccidioidomycosis and coccidioidomycosis
- 6.7. Blastomycosis and Zygomycosis
- 6.8. Cryptococcosis
- 6.9. Candidiasis: Relevance of Resistance to Antifungal Agents
- 6.10. Aspergillosis

### Module 7. Parasitic Diseases

- 7.1. Update on Parasitic Tropical Diseases
- 7.2. Parasites: Classification and General Concepts
- 7.3. Epidemiology of Parasitic Diseases
- 7.4. Parasitic Disease Control
- 7.5. Neglected Tropical Diseases. Concept and Classification
- 7.6. Neglected Tropical Diseases (NTDs): Global Initiatives in NTD Control
- 7.7. Antiparasitics I
- 7.8. Antiparasitics II
- 7.9. Antiparasitic Drug Resistance: Management of Resistant Malaria
- 7.10. Vaccines in Development against Parasites







### Module 8. Vector-Transmitted Parasitic Diseases

- 8.1. Malaria
- 8.2. Babesiosis
- 8.3. Leishmaniasis
- 8.4. American Trypanosomiasis: Chagas Disease
- 8.5. African Trypanosomiasis: Sleeping Sickness
- 8.6. Loasis
- 8.7. Onchocerciasis
- 8.8. Mansonellosis and lymphatic filariasis
- 8.9. Miscellaneous I: skin pathology: pediculosis, scabies and myiasis
- 8.10. Miscellaneous II: Bites and Stings

### Module 9. Non-Vector Parasitic Diseases

- 9.1. Schistosomiasis
- 9.2. Amoebiasis
- 9.3. Giardiasis
- 9.4. Geohelminthiasis
- 9.5. Taeniasis
- 9.6. Fascioliasis
- 9.7. Hydatidosis
- 9.8. Dracunculiasis
- 9.9. Toxocariasis
- 9.10. Trichinosis

### Module 10. Travel Medicine and International Health

- 10.1. Travel and Health. International Health Regulations
- 10.2. Travel Advice. General Recommendations
- 10.3. Vaccination and Antimalarial Prophylaxis
- 10.4. Travelers with Special Conditions
- 10.5. General Assessment upon Return from International Travel
- 10.6. Febrile Syndrome upon Return from International Travel
- 10.7. Diarrheal Syndrome upon Return from International Travel
- 10.8. Skin Lesions upon Return from International Travel
- 10.9. Eosinophilia upon Return from International Travel
- 10.10. Other Common Diseases upon Return from International Travel

07

# Clinical Internship

Once the student has finished their theoretical learning stage, they will be able to access an internship of 3 weeks in a hospital center of high prestige where, integrated in a large multidisciplinary team, they will transfer all their knowledge assimilated in this program towards treatment with real patients.



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*Do your clinical internship in a first class hospital center and use the most advanced medical technology"*

The practical phase of the Hybrid Professional Master's Degree in Advances in Tropical Diseases consists of a 3-week hospital stay, with 8-hour days distributed from Monday to Friday, supervised at all times by an attending doctor. Thanks to this experience, the student will deal with real patients under the supervision of their tutor, applying the most advanced therapeutics for different tropical, parasitic or fungal diseases.

In this practical performance, the activities are aimed at the development and improvement of the competencies necessary for the provision of health care in areas and conditions that require a high level of qualification, and which are oriented to the specific qualification for the exercise of the activity, in an environment of safety for the patient and high professional performance.

This is undoubtedly a great opportunity to increase medical skills through work, developing different tasks in a hospital of the future, where the use of advanced diagnostic and therapeutic procedures are the key to ensure the welfare of patients affected by various tropical pathologies.

Practical teaching will be carried out with the active participation of the student performing the activities and procedures of each area of competence (learning to learn and learning to do), with the support and guidance of professors and other training partners that facilitate teamwork and multidisciplinary integration as transversal competencies for medical practice (learning to be and learning to relate).



The procedures described below will form the basis of the practical part of the internship, and their implementation is subject to both the suitability of the patients and the availability of the center and its workload, with the proposed activities being as follows:

<b>Module</b>	<b>Practical Activity</b>
<b>Microbiology, Genetics, and Immunology of Tropical Diseases</b>	Establish up-to-date rapid diagnostics to detect the tropical disease the patient is suffering from
	Apply novel antibiotics for the treatment of various tropical diseases
<b>Tropical Viral Diseases</b>	Apply state-of-the-art pharmacological treatment for various types of tropical viral diseases
	Preventing different viral diseases through the use of modern vaccines
<b>Vector-borne and non-vector-borne parasitic diseases</b>	Diagnose a possible case of Chagas disease, using the most up-to-date diagnostic methods
	Apply the most effective procedures for Malaria prevention
	Addressing the treatment of Taeniasis for different types of patients
<b>Bacterial Tropical Diseases</b>	Provide leprosy treatment based on the latest scientific evidence in this field
	Address the treatment of tropical bacterial meningitis
<b>Travel Medicine</b>	Develop a specific and updated vaccination plan, adapted to the needs of the traveler with special conditions
	Diagnose the pathology of a patient with febrile syndrome on return from international travel
	Carry out an efficient treatment for skin injuries suffered by a patient who has made an international trip

## Civil Liability Insurance

This institution's main concern is to guarantee the safety of the trainees and other collaborating agents involved in the internship process at the company. Among the measures dedicated to achieve this is the response to any incident that may occur during the entire teaching-learning process.

To this end, this entity commits to purchasing a civil liability insurance policy to cover any eventuality that may arise during the course of the internship at the center.

This liability policy for interns will have broad coverage and will be taken out prior to the start of the practical training period. That way professionals will not have to worry in case of having to face an unexpected situation and will be covered until the end of the internship program at the center.



## General Conditions of the Internship Program

The general terms and conditions of the internship agreement for the program are as follows:

**1. TUTOR:** During the Hybrid Professional Master's Degree, students will be assigned with two tutors who will accompany them throughout the process, answering any doubts and questions that may arise. On the one hand, there will be a professional tutor belonging to the internship center who will have the purpose of guiding and supporting the student at all times. On the other hand, they will also be assigned with an academic tutor whose mission will be to coordinate and help the students during the whole process, solving doubts and facilitating everything they may need. In this way, the student will be accompanied and will be able to discuss any doubts that may arise, both clinical and academic.

**2. DURATION:** The internship program will have a duration of three continuous weeks, in 8-hour days, 5 days a week. The days of attendance and the schedule will be the responsibility of the center and the professional will be informed well in advance so that they can make the appropriate arrangements.

**3. ABSENCE:** If the students does not show up on the start date of the Hybrid Professional Master's Degree, they will lose the right to it, without the possibility of reimbursement or change of dates. Absence for more than two days from the internship, without justification or a medical reason, will result in the professional's withdrawal from the internship, therefore, automatic termination of the internship. Any problems that may arise during the course of the internship must be urgently reported to the academic tutor.

**4. CERTIFICATION:** Professionals who pass the Hybrid Professional Master's Degree will receive a certificate accrediting their stay at the center.

**5. EMPLOYMENT RELATIONSHIP:** the Hybrid Professional Master's Degree shall not constitute an employment relationship of any kind.

**6. PRIOR EDUCATION:** Some centers may require a certificate of prior education for the Hybrid Professional Master's Degree. In these cases, it will be necessary to submit it to the TECH internship department so that the assignment of the chosen center can be confirmed.

**7. DOES NOT INCLUDE:** The Hybrid Professional Master's Degree will not include any element not described in the present conditions. Therefore, it does not include accommodation, transportation to the city where the internship takes place, visas or any other items not listed.

However, students may consult with their academic tutor for any questions or recommendations in this regard. The academic tutor will provide the student with all the necessary information to facilitate the procedures in any case.

08

# Where Can I Do the Clinical Internship?

In order to give students the opportunity to develop their medical skills to the maximum in the treatment of tropical diseases, TECH has selected the best hospitals for the internship of this Hybrid Professional Master's Degree, characterized by having the most advanced technology in this field of medicine.






A city skyline at sunset with a blue geometric overlay. The image shows a dense urban landscape with numerous skyscrapers, some of which are illuminated with lights. The sky is a mix of orange, pink, and blue, indicating the time is either dawn or dusk. A large blue geometric shape, consisting of two overlapping triangles, is positioned in the upper right corner of the page, partially overlapping the city skyline and the white background.

“

*Take your hospital internship in a hospital that offers you the most advanced technology for the detection and treatment of tropical diseases”*



The student will be able to complete the practical part of this Hybrid Professional Master's Degree at the following centers:



**Medicine**

**Policlínico HM Sanchinarro**

Country	City
Spain BORRAR	Madrid

Management: Av. de Manoteras, 10,  
28050, Madrid

Network of private clinics, hospitals and specialized centers distributed throughout Spain.

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**Related internship programs:**

- Gynecological Care for Obstetricians
- Nursing in the Digestive Tract Department





“

*Make the most of this opportunity to surround yourself with expert professionals and learn from their work methodology”*

09

# 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.



“

*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"*

## Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

“

*At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world”*



*You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.*



*The student will learn to solve complex situations in real business environments through collaborative activities and real cases.*

### A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.

“*Our program prepares you to face new challenges in uncertain environments and achieve success in your career”*

The case method is the most widely used learning system in the best faculties in the world. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.

## Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

*In 2019, we obtained the best learning results of all online universities in the world.*

At TECH, you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.





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.

With this methodology, we have trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, markets, and financial instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*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.*

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.



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.



### 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.



### Practising Skills and Abilities

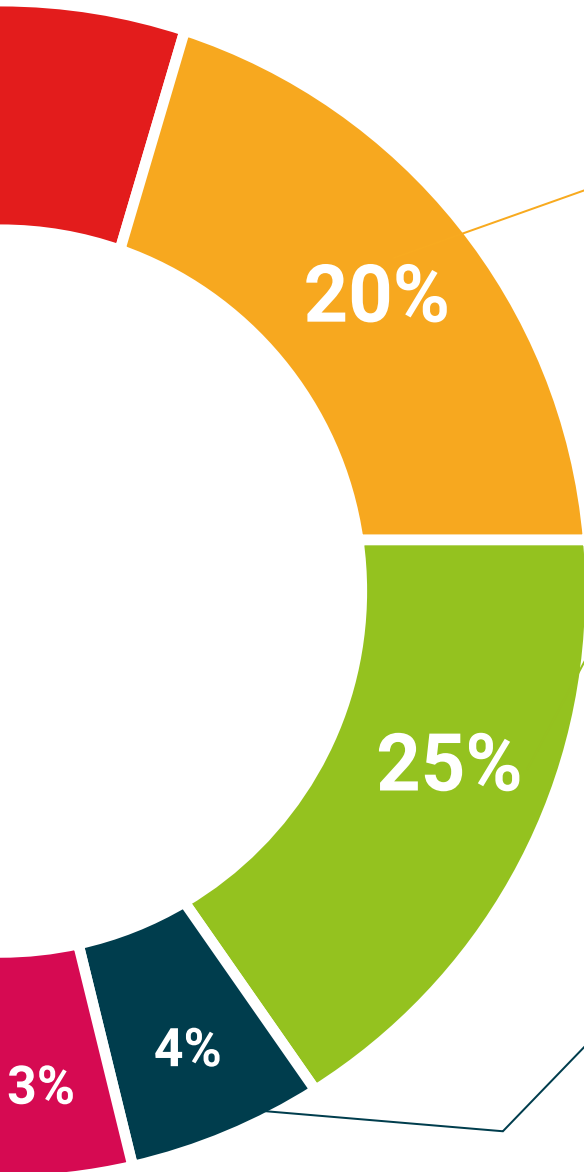
They will carry out activities to develop specific competencies and skills in each thematic area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



### 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.





#### Case Studies

Students will complete a selection of the best case studies chosen specifically for this situation. Cases that are presented, analyzed, and supervised by the best specialists in the world.



#### 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".



#### 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.



# 10 Certificate

The Hybrid Professional Master's Degree in Advances in Tropical Diseases guarantees students, in addition to the most rigorous and up-to-date education, access to a Hybrid Professional Master's Degree diploma 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 **Hybrid Professional Master's Degree in Clinical Infectious Diseases and Antibiotic Therapeutics** 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.

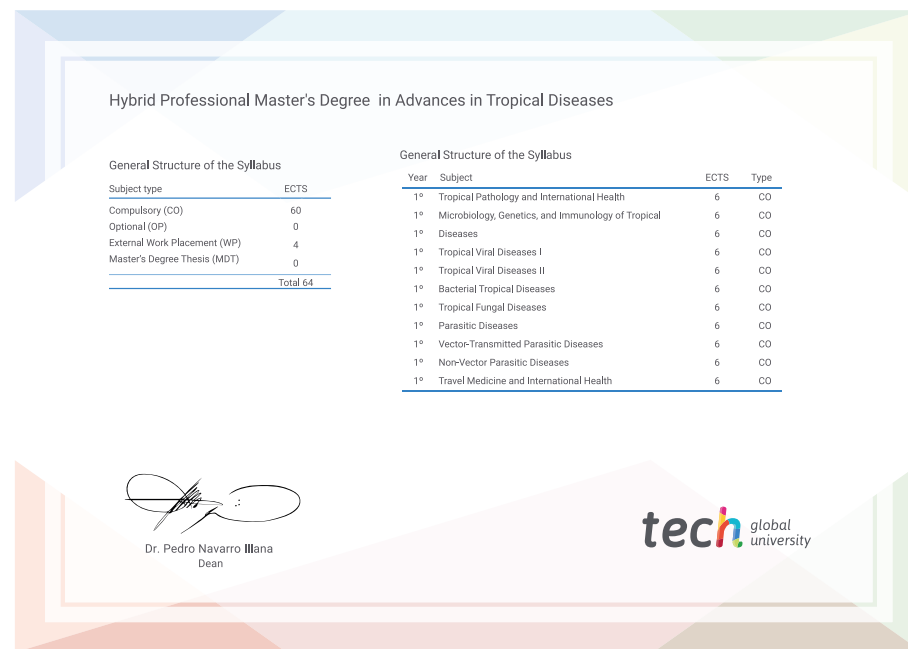


This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Hybrid Professional Master's Degree in Advances in Tropical Diseases**

Modality: **Hybrid (Online + Clinical Internship)**

Duration: **12 months**





## Hybrid Professional Master's Degree

### Advances in Tropical Diseases

Modality: Hybrid (Online + Clinical Internship)

Duration: 12 months

Certificate: TECH Global University

Credits: 60 + 4 ECTS

# Hybrid Professional Master's Degree

## Advances in Tropical Diseases