

# Postgraduate Certificate

## Advances in Antiparasitics



## Postgraduate Certificate Advances in Antiparasitics

Course Modality: **Online**

Duration: **2 months.**

Certificate: **TECH Technological University**

**5 ECTS Credits**

Teaching Hours: **125 hours.**

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

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 20*

06

Certificate

---

*p. 28*

# 01

# Introduction

Parasites look for living beings where they can survive. However, in the case of their coexistence in humans, they can cause some diseases, sometimes serious, such as malaria. In order to tackle the infections caused by these creatures, it is necessary for specialists to continue their training in the advances in antiparasitic agents. With this Postgraduate Certificate, physicians will obtain the most updated training thanks to the advances made by researchers in this type of diseases.





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*This Postgraduate Certificate in Advances in Antiparasitics will generate a sense of security in the performance of your profession, which will help you to grow personally and professionally"*

Parasitic infections are more frequent in rural areas or in places with scarce economic resources, where they can even cause the death of affected persons. However, they are not exclusive to these countries, since tourism has caused the proliferation of travel to these places, since a person can become infected in one of these places and begin to see symptoms in his or her place of residence.

For this reason, it is important for all medical professionals to be aware of the latest advances in the field of antiparasitics in order to provide the best medical care to their patients.

Among the best known infections caused by parasites is malaria, also known as malaria, which is one of the most deadly. In this case, the parasite is transmitted through the bite of a mosquito.

To prevent parasitic infections it is necessary to have good hygiene measures and to take extra measures in case you are going to travel to countries where these infections are frequent.

Thanks to this training, the professional will learn about the existing antiparasitic drugs for the different infections of this type, as well as the recommendations of the World Health Organization (WHO) to treat malaria. A unique and quality training to expand knowledge in the field and treat patients in the most effective way.

This **Postgraduate Certificate in Advances in Antiparasitics** contains the most complete and up-to-date scientific program on the market. The most important features of the course are:

- ♦ The development of more than 75 case studies presented by experts in Advances in Antiparasitics. The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice.
- ♦ The latest news on Advances in Antiparasitics.
- ♦ The content of practical exercises where the self-evaluation process can be carried out to improve learning.
- ♦ Special emphasis is placed on innovative methodologies in Advances in Antiparasitics.
- ♦ 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.



*Update your knowledge through the Postgraduate Certificate in Advances in Antiparasitics”*

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*This Postgraduate Certificate may be the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in Advances in Antiparasitics, you will obtain a Postgraduate Certificate issued by TECH Technological University”*

Its teaching staff includes professionals belonging to the field of Antiparasitics, who contribute their work experience to this training, in addition to renowned specialists belonging to reference 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 training program to train in real situations.

This program's design is based on problem-based learning, by means of which the professional must try to solve the different professional practice situations that arise during the course university. For this purpose, the professional will be assisted by an innovative interactive video system developed by recognized experts in the field of Antiparasitic Advances and with great experience.

*Increase your decision-making confidence by updating your knowledge through this Postgraduate Certificate.*

*Take the opportunity to learn about the latest advances in Antiparasitics and improve the training of your students.*



# 02

# Objectives

The main goal of the Postgraduate Certificate is to improve health professionals, based on the acquisition of the most updated and innovative scientific knowledge in the field of Antiparasitic Advances that will allow them to develop skills for the correct and rational use of these drugs, making their daily clinical practice a bastion of the standards of the best scientific evidence available, with a critical, innovative, multidisciplinary and integrative sense.





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*This Postgraduate Certificate is oriented to update your knowledge in Advances in Antiparasitics II, with the use of the latest educational technology, to contribute with quality and safety to the decision making process with your patients"*



## General Objective

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- Guarantee the professional improvement, through the currentness, novelty and depth of the best scientific evidence on antiparasitics for the correct use of these drugs and the adequate treatment of infectious diseases with a multidisciplinary and integrative approach that facilitates the control of these pathologies.



*Update your knowledge through the  
Advances in Antiparasitics program”*





## Specific Objectives

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- ◆ Provide training and practical/theoretical improvement that will enable a reliable clinical diagnosis supported by the efficient use of diagnostic methods to indicate an effective antimicrobial treatment.
- ◆ Develop skills to implement prophylactic plans for the prevention of these pathologies.
- ◆ Address the important role of microbiology and the diagnosis and control of infectious diseases.
- ◆ Describe the main mechanisms of antimicrobial resistance.
- ◆ Highlight the importance of rational therapeutics in the rational use of antimicrobials.
- ◆ Address the most important elements among the resistance mechanisms of superbugs and other germs in a general sense.
- ◆ Address, in detail and depth, the most up-to-date scientific evidence on the mechanisms of action, adverse effects, dosage, and use of antimicrobials.
- ◆ Explain the pathophysiologic and pathogenic interrelationships between antimicrobial use and the immune response.
- ◆ Emphasize the role of immunity and new alternatives for the treatment of infections.
- ◆ Delve into the treatment of the most significant infectious diseases with the latest advances in scientific medical knowledge.
- ◆ Address the crucial issue of super-resistant microbes and their relationship to antimicrobial use based on the most up-to-date concepts.
- ◆ Emphasize the future challenges of infectious diseases in decreasing infectious diseases morbidity and mortality and antimicrobial treatment.

03

# Course Management

Renowned and recognized medical specialists with numerous publications, teaching experience, and professional experience in many countries, where many of the diseases studied have a high morbimortality, participate in the teaching program. The teaching staff is made up of a multidisciplinary team from various medical specialties, as internal medicine, pediatrics, general surgery, gynecology and obstetrics, microbiology, pathological anatomy and pharmacology, among others.





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*Learn about , the latest advances  
in Antibiotic Therapy and Antibiotic  
Resistance from leading professionals"*

## Management



### Dr. Bécares Martínez, Francisco Javier

- ♦ Head of the Pharmacy Department Jiménez Díaz Foundation Hospital
- ♦ Graduate in Pharmacy. University of Salamanca.
- ♦ Specialist in Hospital Pharmacy. Severo Ochoa Hospital
- ♦ Specialist in Clinical Analysis. San Carlos Clinical Hospital
- ♦ Degree in Medicine. Complutense University of Madrid.
- ♦ Assistant pharmacist, specialist in Hospital Pharmacy at the Fundación Jiménez Díaz University Hospital.
- ♦ Associate Professor in Health Sciences at Complutense University of Madrid
- ♦ Collaborating Professor at the University School of Nursing of the Fundación Jiménez Díaz.

## Professors

### Ardizone Jiménez, Beatriz

- ♦ Degree in Pharmacy at Complutense University of Madrid
- ♦ Master's Degree in Applied Microbiology in Public Health and Infectious Diseases Research
- ♦ Resident Intern Pharmacist in Hospital Pharmacy at the Fundación Jiménez Díaz University Hospital.
- ♦ X Practical Course in Dermopharmacy, Faculty of Pharmacy, Complutense University of Madrid.
- ♦ XIX Course in Initiation to Research in Microbiology.
- ♦ Antimicrobial Stewardship Course, Menéndez Pelayo International University, Santander, Spain.

### García Jiménez, Laura

- ♦ Specialist Pharmacist in Hospital Pharmacy. Adjunct of Outpatient Area. HU Fundación Jiménez Díaz.
- ♦ Residency in Hospital Pharmacy. HU Fundación Jiménez Díaz.
- ♦ Specialist Pharmacist in Hospital Pharmacy. Onco-hematology Phase I Clinical Trials Unit Pharmacy. Start Madrid FJD. HU Fundación Jiménez Díaz.
- ♦ Degree in Pharmacy. Faculty of Pharmacy, University of Salamanca.
- ♦ Rational use of parenteral nutrition course.
- ♦ Course on Safety and approach to restraints in AMAS residential centers.
- ♦ Good Clinical Practice Guidelines (GCP) Online Course. Andalusian initiative of advanced therapies.
- ♦ Joaquim Bonal Clinical Pharmacy Course. Santa Creu and Sant Pau Hospital.



**D. Ortega Gómez, José Manuel**

- ◆ Director of Hospital Pharmacy Specialist in Hospital Pharmacy, HM Hospitales Madrid
- ◆ Specialist in Hospital Pharmacy, HM Hospitales Group
- ◆ Specialist in Hospital Pharmacy, HM Sanchinarro (Madrid) 2010-2012
- ◆ Specialist in Hospital Pharmacy, La Paz University Hospital (Madrid) 2006-2010
- ◆ Specialist in Hospital Pharmacy, Fundación Jiménez Díaz (Madrid) 1998-2006
- ◆ Specialist in Hospital Pharmacy, Hospital HM Madrid (Madrid) 1995-1998
- ◆ Specialist in Hospital Pharmacy, Hospital del Río Hortega (Valladolid) 1992-1994

# 04

# Structure and Content

The teaching program has been created by a group of professors and medical professionals from various medical specialties, with extensive medical, research and teaching experience in several countries in Europe, Africa, Central and South America, interested in integrating the latest and most current scientific knowledge of antiparasitic drugs to ensure training and professional development to improve the daily clinical practice of professionals who care for patients or populations with infectious diseases.



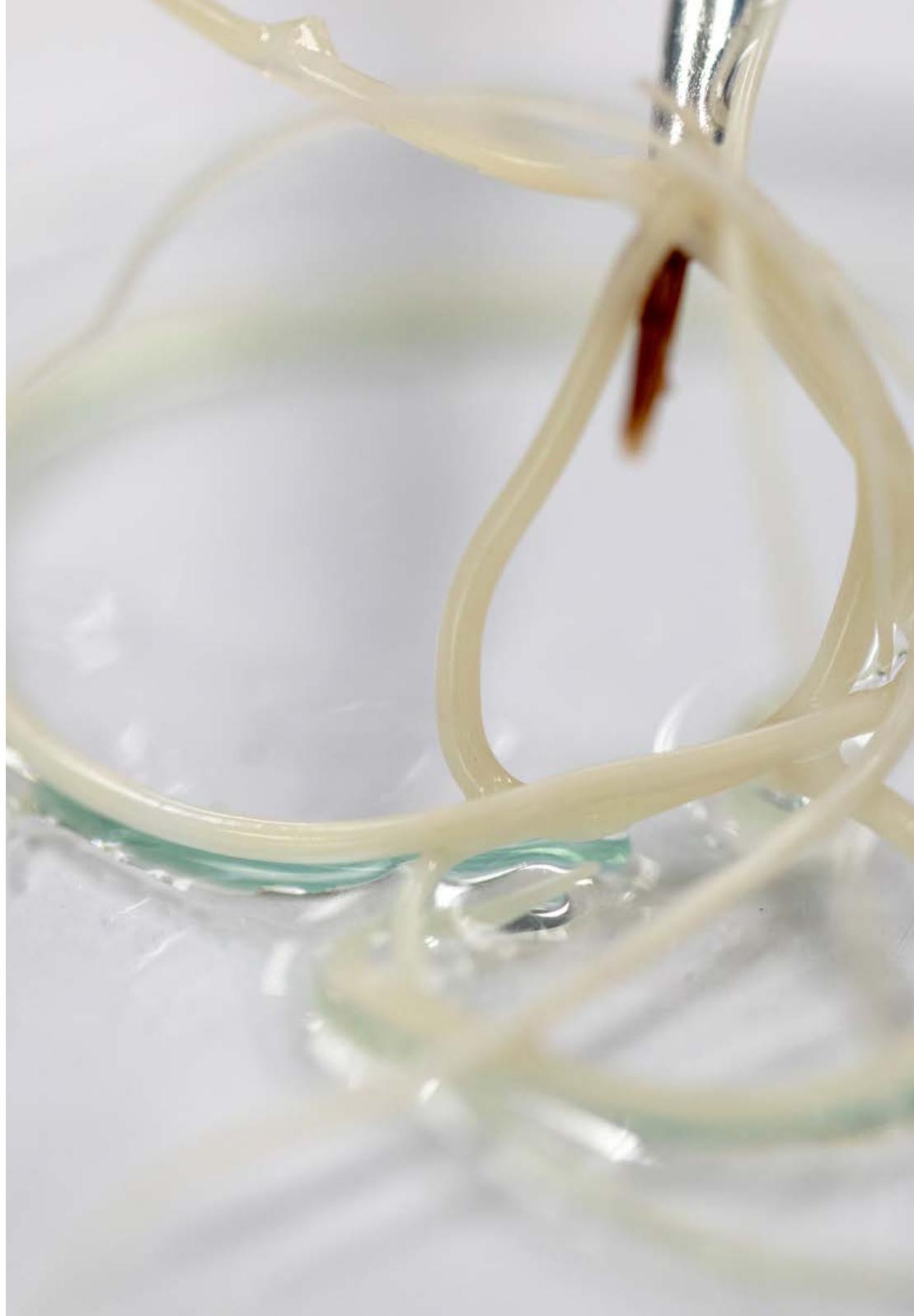


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*This Postgraduate Certificate in Advances in Antiparasitics contains the most complete and up-to-date scientific program on the market”*

## Module 1. Antiparasitics II

- 1.1. General Elements.
  - 1.1.1. Concept.
  - 1.1.2. Origins and Development.
- 1.2. Classification.
  - 1.2.1. Classification by Chemical Structure.
  - 1.2.2. Classification by Action Against Different Parasites.
- 1.3. Mechanisms of Action.
  - 1.3.1. Mechanisms of Action of Antiparasitics.
- 1.4. Antiparasitics for Intestinal Parasitism: New Advances.
  - 1.4.1. Classification.
  - 1.4.2. Mechanism of Action.
  - 1.4.3. Antimicrobial Spectrum.
  - 1.4.4. Pharmacokinetics and Pharmacodynamics.
  - 1.4.5. Therapeutic Uses.
  - 1.4.6. Adverse Effects.
  - 1.4.7. Presentation and Dosage.
- 1.5. Antimalarials: Latest WHO Recommendations.
  - 1.5.1. Classification.
  - 1.5.2. Mechanism of Action.
  - 1.5.3. Antimicrobial Spectrum.
  - 1.5.4. Pharmacokinetics and Pharmacodynamics.
  - 1.5.5. Therapeutic Uses.
  - 1.5.6. Adverse Effects.
  - 1.5.7. Presentation and Dosage.
- 1.6. Update on Antiparasitics for Filariasis.
  - 1.6.1. Classification.
  - 1.6.2. Mechanism of Action.
  - 1.6.3. Antimicrobial Spectrum.
  - 1.6.4. Pharmacokinetics and Pharmacodynamics.
  - 1.6.5. Therapeutic Uses.
  - 1.6.6. Adverse Effects.
  - 1.6.7. Presentation and Dosage.



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- 1.7. Latest Advances in Antiparasitics for Trypanosomiasis.
    - 1.7.1. Classification.
    - 1.7.2. Mechanism of Action.
    - 1.7.3. Antimicrobial Spectrum.
    - 1.7.4. Pharmacokinetics and Pharmacodynamics.
    - 1.7.5. Therapeutic Uses.
    - 1.7.6. Adverse Effects.
    - 1.7.7. Presentation and Dosage.
  - 1.8. Antiparasitics for Schistosomiasis.
    - 1.8.1. Classification.
    - 1.8.2. Mechanism of Action.
    - 1.8.3. Antimicrobial Spectrum.
    - 1.8.4. Pharmacokinetics and Pharmacodynamics.
    - 1.8.5. Therapeutic Uses.
    - 1.8.6. Adverse Effects.
    - 1.8.7. Presentation and Dosage.
  - 1.9. Antiparasitics for Leishmaniasis.
    - 1.9.1. Classification.
    - 1.9.2. Mechanism of Action.
    - 1.9.3. Antimicrobial Spectrum.
    - 1.9.4. Pharmacokinetics and Pharmacodynamics.
    - 1.9.5. Therapeutic Uses.
    - 1.9.6. Adverse Effects.
    - 1.9.7. Presentation and Dosage.
  - 1.10. Treatment of Other Less Common Parasitosis.
    - 1.10.1. Dracunculiasis.
    - 1.10.2. Echinococcosis.
    - 1.10.3. Other Tissue Parasites.

05

# Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

This teaching system is used 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 Re-learning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH we use the Case Method

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

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



According to Dr. Gervas, 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 potential 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 professional medical 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 grasp concepts, but also develop their mental capacity by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on 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.



## Re-Learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our 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, which represent a real revolution with respect to simply studying and analyzing cases.



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

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

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*Re-learning 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 (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

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



In this program you will have access to the best educational material, prepared with you 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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



#### Latest Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



#### Interactive Summaries

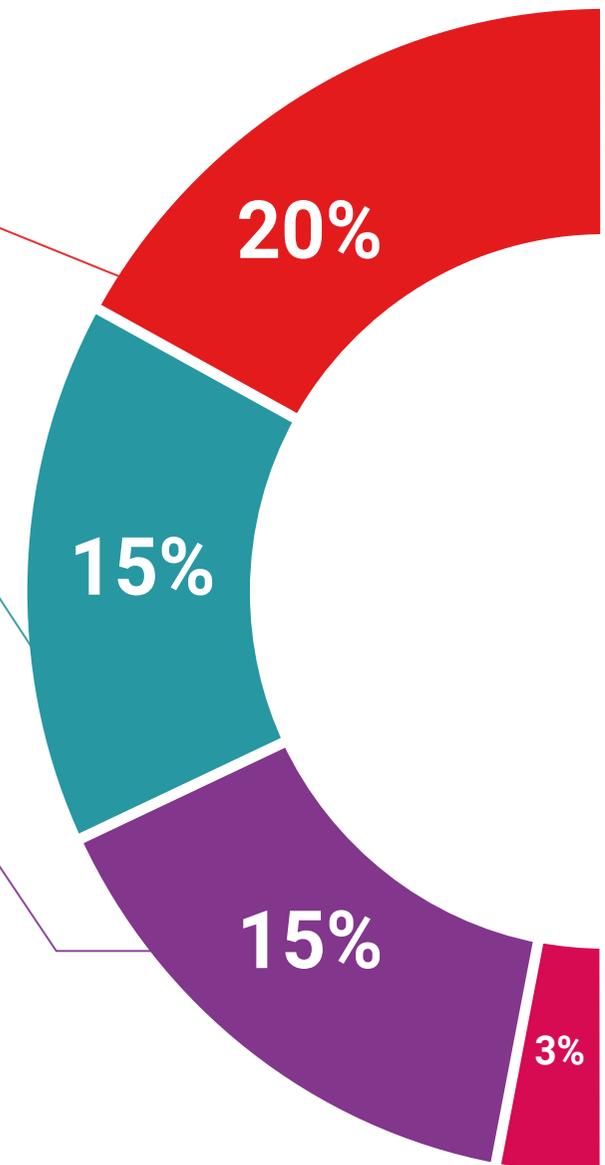
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



#### Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.





**Expert-Led Case Studies and Case Analysis**

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



**Testing & Re-testing**

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.



**Classes**

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence in our future difficult decisions.



**Quick Action Guides**

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



# 06 Certificate

This **Postgraduate Certificate in Advances in Antiparasitics** guarantees you, in addition to the most rigorous and updated training, the access to a Postgraduate Certificate issued by **TECH Technological University**.





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*Successfully complete this training and receive your university degree without travel or laborious paperwork”*

This **Postgraduate Certificate in Advances in Antiparasitics** contains the most complete and up-to-date scientific program on the market.

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

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

Title: **Postgraduate Certificate in Advances in Antiparasitics**

ECTS: 5

Official Number of Hours: **125**



\*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.

health future  
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  
Certificate**  
Advances in  
Antiparasitics

Course Modality: Online

Duration: 2 months.

Certificate: **TECH Technological University**

**5 ECTS Credits**

Teaching Hours: **125 hours.**

# Postgraduate Certificate

## Advances in Antiparasitics