



Postgraduate Certificate

Parasitology in the Food Industry

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/nutrition/postgraduate-certificate/parasitology-food-industry

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01 Introduction

Nowadays, the growing concern about the risks associated with foodborne parasites has become increasingly relevant within the food industry, which is why it has decided to integrate the virtues offered by Parasitology for the identification, prevention and control of these organisms that affect food safety. For this reason, the demand for professionals with expertise in the application of this science in the food market is increasing and with this program, students will become the best. This, thanks to the complete curriculum that offers very comprehensive topics in this area and which can be accessed through a 100% online methodology, a benefit that will allow them to have greater control over their time.



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This Postgraduate Certificate program offers students interested in professional growth a specific focus on Parasitology and its application in food production, addressing topics such as the effects that these organisms produce in food and their impact on human health. In addition, the student will be able to assimilate all these concepts and carry out mitigation strategies for this type of risks.

The agenda will also include topics related to the identification and management of parasites in the food industry, which will provide techniques for their detection, prevention and control. In addition, the implementation of good hygienic and food handling practices will be further developed in order to guarantee the safety and quality of these products.

With this, the student will be able to expand their knowledge and acquire a comprehensive preparation in this field, so that they will be fully trained to face the challenges that currently exist in the food industry in terms of food safety and quality.

All this, thanks to the innovative Relearning methodology, which allows students to study from home and have greater time flexibility, since they will have access 24 hours a day to the multimedia resources they will find in the online campus. In addition, you will be able to strengthen your competencies and increase your ability to solve problems, since you will analyze practical cases that will place you in a real scenario.

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

- The development of case studies presented by experts in Parasitology in the Food Industry
- 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 the self-assessment process can be carried out to improve learning
- Its special emphasis on innovative methodologies
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection work
- Content that is accessible from any fixed or portable device with an Internet connection



Do you want to achieve excellence in the field of Parasitology? Start now and discover how to achieve it with this degree"



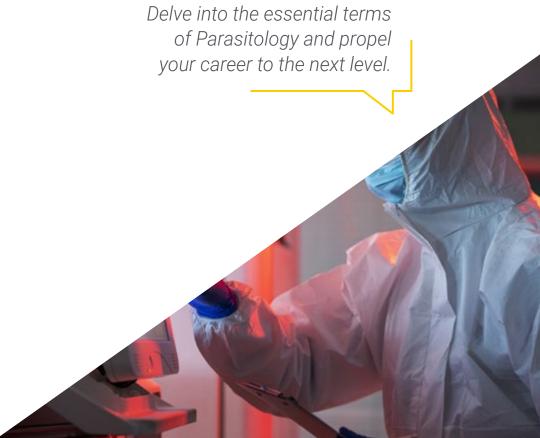
Master food parasite diagnostic techniques and gain advanced skill in interpreting results through the hands-on approach of this program"

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

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

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. This will be done with the help of an innovative system of interactive videos made by renowned experts.

At your own pace and online you will be able to increase your knowledge in this area.





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Thanks to the knowledge you will have about the parasitological risks that can occur in the production chain, you will be able to carry out strategies to mitigate them"

tech 10 | Objectives



General Objectives

- Identify and understand biology as an experimental science through the application of the scientific method.the application of the scientific method
- Explain basic knowledge and know how to apply it to population growth and sustainable exploitation of natural resources
- Know and apply the procedures for toxicity assessment
- Contribute to consumer protection within the framework of food safety



Open the door to access new job offers and be part of the professionals of the future in the Food Industry"





Objectives | 11 tech



Specific Objectives

- Know the microbiology and parasitology concepts and procedures relevant to the food industry
- Identify, analyze and evaluate parasitological risks throughout the food chain, from raw material collection to the distribution of the processed product to the final consumer
- Analyze and understand the main preventive measures regarding microbiological and parasitological contamination of food at any stage of the food chain. of the food chain
- Know and identify the main foodborne parasites that cause human illnesses
- Identify and apply the main techniques for sampling and identification of parasites in food
- Identify and apply the main techniques for sampling and characterization of parasites in food





tech 14 | Structure and Content

Module 1. Food Parasitology

- 1.1. Introduction to food parasitology
 - 1.1.1. Fundamental Concepts of Parasitology
 - 1.1.2. Effects of Parasites in Food and Impact on Human Health
 - 1.1.3. Socioeconomic Impacts of Foodborne Parasites
 - 1.1.4. General characteristics of the major groups of parasites
 - 1.1.4.1. Life cycles of the major groups of parasites
- 1.2. General Characteristics of Protozoa in food
 - 1.2.1. Digestive Tract Amoebae
 - 1.2.1.1. Entamoeba Histolytica: Morphology, Function, Transmission Mechanisms and Biological Cycle
 - 1.2.1.2. Other amoebae of interest in food: entamoeba hartmanii and Entamoeba coli
 - 1.2.2. Digestive Tract scourge
 - $1.2.2.1.\ Giardia:\ Morphology,\ Function,\ Transmission\ Mechanisms\ and\ Biological\ Cycle$
 - 1.2.2.2. Other Flagellates in Food
 - 1.2.3. Digestive Tract Apicomplexa
 - 1.2.3.1. General Biological Cycle
 - 1.2.3.2. Cryptosporidium: Morphology, Function, Transmission Mechanisms and Biological Cycle
 - 1.2.3.3. Cyclospora Cayetanensis: Morphology, Function, Transmission Mechanisms and Biological Cycle
 - 1.2.3.4. Isospora Belli: Morphology, Function, Transmission Mechanisms and Biological Cycle
 - 1.2.4. Digestive Tract Ciliates
 - 1241 Balantidium Coli
- 1.3. General Characteristics of Helmintos in food
 - 1.3.1. General Characteristics of Helminths

- 1.3.2. General Characteristics of Trematodes
 - 1.3.2.1. Hepatic trematodes: fasciola hepatica, Dicrocoelium dendtricum, Clonorchis
 - 1.3.2.2. Pulmonary trematodes: pargonimus westermanii
 - 1.3.2.3. Intesintal trematodes: fasciolopsis buski
 - 1.3.2.4. Preventive Measures and Treatment of Diseases Caused by Trematodes
- 1.3.3. General Characteristics of Cestodes
 - 1.3.3.1. Digestive cestodes: diphyllobobotrium latum
 - 1.3.3.2. Tapeworms: taenia solium and Taenia saginata
- 1.3.4. Cestode Preventive Measures and Treatments
- 1.4. Parasites Associated with Fish Products
 - 1.4.1. Protozoa in Fish Products
 - 1.4.1.1. General Characteristics: Biological Cycle, Transmission, Reservoirs and Morphology
 - 1.4.1.2. Most Important Species
 - 1.4.1.3. Preventive and Remedial Measures
 - 1.4.2. Helmintos in Fish Products
 - 1.4.2.1. General Characteristics: Biological Cycle, Transmission, Reservoirs and Morphology
 - 1.4.2.2. Most Important Species
 - 1.4.2.3. Preventive and Remedial Measures
 - 1 4 3 General Identification Measures
 - 1.4.4. Nematodes in Fishery Products: Life Cycle, Transmission, Reservoirs and Morphology
 - 1.4.4.1. Most Important Species
 - 1442 Preventive and Remedial Measures
- 1.5. Parasites Associated with Farmed Meat and Meat By-Products
 - 1.5.1. Protozoa Associated with Farmed Meat and Meat By-Products
 - 1.5.1.1. General Characteristics: Biological Cycle, Transmission, Reservoirs and Morphology
 - 1.5.1.2. Most Important Species
 - 1.5.1.3. Preventive and Remedial Measures

Structure and Content | 15 tech

- 1.5.2. Helmintos Associated with Farmed Meat and Meat By-Products
 - 1.5.2.1. General Characteristics: Biological Cycle, Transmission, Reservoirs and Morphology
 - 1.5.2.2. Most Important Species
 - 1.5.2.3. Preventive and Remedial Measures
- 1.5.3. Nematodes Associated with Farmed Meat and Meat By-Products
 - 1.5.3.1. General Characteristics: Biological Cycle, Transmission, Reservoirs and Morphology
 - 1.5.3.2. Most Important Species
 - 1.5.3.3. Preventive and Remedial Measures
- 1.5.4. Identification Methods for Parasites Associated with Farmed Meat and Meat Byproducts
- 1.6. Water-Associated Parasites
 - 1.6.1. Water-Associated Protozoa
 - 1.6.1.1. General Characteristics: Biological Cycle, Transmission, Reservoirs and Morphology
 - 1.6.1.2. Study of the Most Important Species
 - 1.6.1.3. Control and Prophylaxis measures
 - 1.6.2. Water-Associated Helmintos
 - 1.6.2.1. General Characteristics: Biological Cycle, Transmission, Reservoirs and Morphology
 - 1.6.2.2. Study of the Most Important Species
 - 1.6.2.3. Control and Prophylaxis measures
 - 1.6.3. Nematodes Associated with Water Consumption
 - 1.6.3.1. General Characteristics: Biological Cycle, Transmission, Reservoirs and Morphology
 - 1.6.3.2. Study of the Most Important Species
 - 1.6.3.3. Control and Prophylaxis measures
 - 1.6.4. General Identification Methods for Parasites Associated with Water Consumption

- 1.7. Parasites associated with fruits and vegetables
 - 1.7.1. Protozoa Associated with Fruits and Vegetables Consumption
 - 1.7.1.1. General Characteristics: Morphology and Biology, Transmission Mechanisms
 - 1.7.1.2. Most Important Species
 - 1.7.1.3. Prophylaxis and Treatment Measures
 - 1.7.2. Helminths Associated with Fruits and Vegetables Consumption
 - 1.7.2.1. General Characteristics: Morphology and Biology, Transmission Mechanisms
 - 1.7.2.2. Most Important Species
 - 1.7.2.3. Prophylaxis and Treatment Measures
 - 1.7.3. Nematodes Associated with Fruits and Vegetables Consumption
 - 1.7.3.1. General Characteristics: Morphology and Biology, Transmission Mechanisms
 - 1.7.3.2. Most Important Species
 - 1.7.3.3. Prophylaxis and Treatment Measures
 - 1.7.4. Identification and Characterization Methods
- 1.8. Disease-Producing Insects and Food Spoilage
 - 1.8.1. Study of the Most Important Species
 - 1.8.1.1. General Characteristics: Biological Cycle, Transmission Mechanisms of and Morphology
 - 1.8.1.2. Prophylaxis and Remedial Measures for Insects
 - 1.8.1.3. Epidemiology and Distribution of Arthropods
 - 1.8.2. Study of the Most Important Species
 - 1.8.2.1. General Characteristics: Biological Cycle, Transmission Mechanisms of and Morphology
 - 1.8.2.2. Prophylaxis and Remedial Measures for Insects
 - 1.8.2.3. Epidemiology and Distribution of Arthropods
 - 1.8.3. Identification and Characterization Methods

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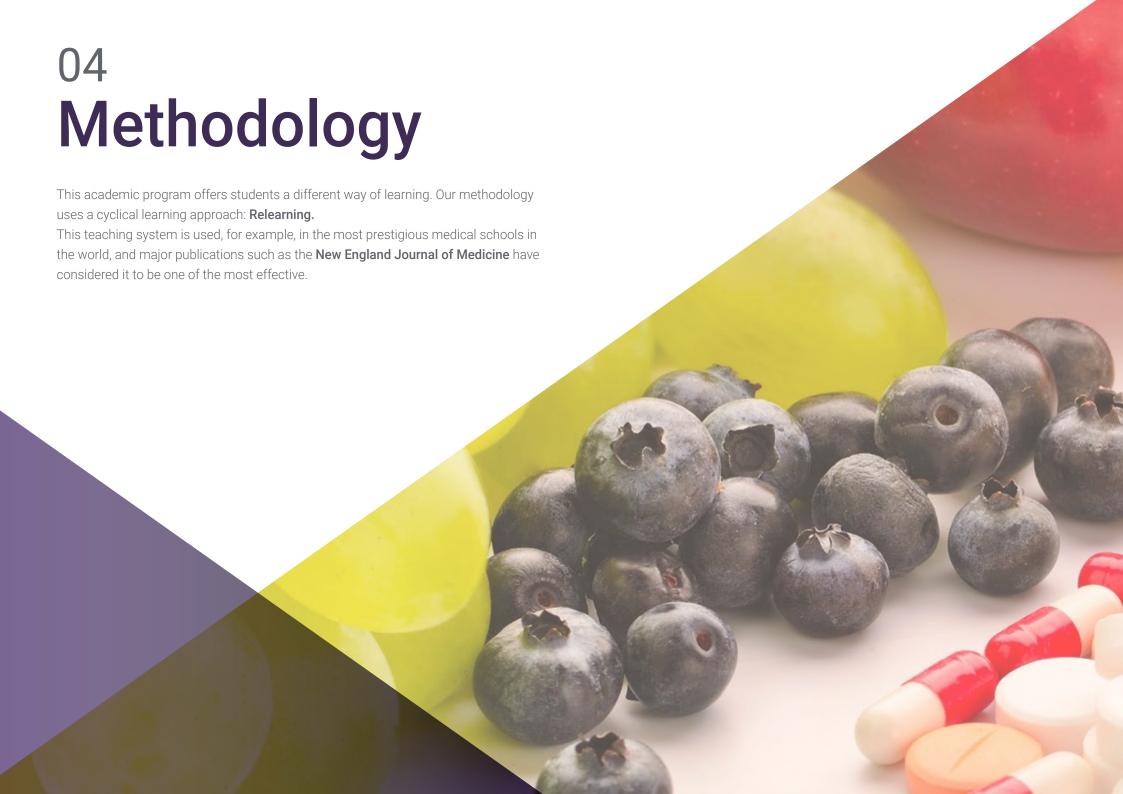
- 1.9. Epidemiological Analysis of Foodborne Parasitosis
 - 1.9.1. Points of Interest on The Geographical Origin of Food and the Parasite Biological Cycle in Food Transmission
 - 1.9.2. Study of the Clinical Matters Associated with Parasites: Prepatent Period, the Appearance of Symptoms and the Presence of Asymptomatic Carriers in the Study of Food Outbreaks
 - 1.9.3. Analysis of Actual Food Outbreaks in Different Settings: Towns, Hospitals, Nursing Homes, Schools, Restaurants, Social and Family Gatherings
- 1.10. Natural Food Toxins
 - 1.10.1. The Importance of Food Spoiling Parasites
 - 1.10.1.1. The Decline in the Production and Quality of Food and Plant and Animal Raw Materials
 - 1.10.2. Pests of Plant Products and Derivatives
 - 1.10.2.1. Protozoa, Helminths and Arthropods
 - 1.10.2.2. Phytoparasites Points of Interest
 - 1.10.3. Pests of Meat Products and Derivatives
 - 1.10.3.1. Protozoa, Helminths and Arthropods
 - 1.10.3.2. Socioeconomic Issue of Parasites in Domestic Livestock, Poultry and Farm Animals
 - 1.10.4. Pests of Fish and Fish By-Products
 - 1.10.4.1. Protozoa, Helminths and Arthropods
 - 1.10.4.2. Socioeconomic interest of fish parasites







The interactive and participatory teaching approach of the Relearning methodology will enable you to develop advanced problem-solving and decision-making skills"





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At TECH we use the Case Method

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

With TECH, nutritionists can 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 of professional nutritional practice.



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:

- Nutritionists who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity through exercises to evaluate real situations and the application of knowledge.
- 2. Learning is solidly translated into practical skills that allow the nutritionist to better integrate knowledge into clinical practice.
- 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.



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Relearning Methodology

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

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

The nutritionist 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.



Methodology | 23 tech

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 45,000 nutritionists have been trained 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 socioeconomic 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.

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.

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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.



Nutrition Techniques and Procedures on Video

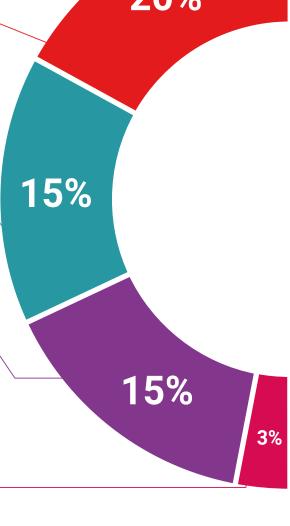
TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current nutritional counselling techniques and procedures. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, 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.





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.

and direct way to achieve the highest degree of understanding.

Classes



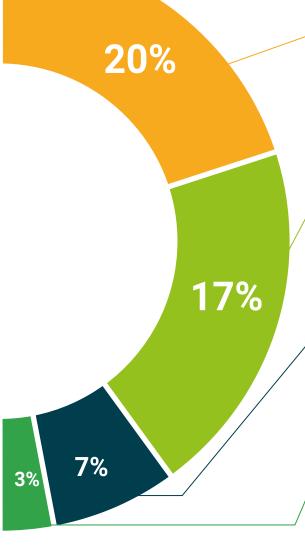
There is scientific evidence suggesting that observing third-party experts can be useful.

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

Quick Action Guides



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







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This program will allow you to obtain your **Postgraduate Certificate in Parasitology in the Food Industry** 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** title 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: Postgraduate Certificate in Parasitology in the Food Industry

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



Mr./Ms. _____, with identification document _____ has successfully passed and obtained the title of:

Postgraduate Certificate in Parasitology in the Food Industry

This is a program of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



^{*}Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.



Food Industry

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

