



Postgraduate Certificate

Poultry Nutrition and Feeding

» Modality: Online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedicated: 16 hours a week

» Schedule: at your own pace

» Exams: online

 $We b site: {\color{blue}www.techtitute.com/us/nutrition/postgraduate-certificate/poultry-nutrition-feeding}$

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tech 06 | Introduction

The current world population, estimated at 7.6 billion, is expected to increase to 8.6 billion by 2030, and animal nutrition is one of the disciplines called to help solve the problem of producing sufficient and economical protein to feed this growing demand in an efficient and sustainable manner.

This complete course covers important topics such as differentiated nutrition in broilers to obtain a higher yield of cuts, special feeds, transport of hatchlings and finishers before slaughter, and layers, establishing their nutritional requirements according to their age and productive stage, nutrition strategies and adequate feeding to guarantee the achievement of the expected zootechnical results.

Knowledge that enables the entry, linkage and specialization in one of the most important sectors of animal production at present and with more labor demand and need for specialization.

Join the elite with this highly effective educational program and open new paths to your professional progress"

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

- The latest technology in online teaching software
- Intensely visual teaching system, supported by graphic and schematic contents, easy to assimilate and understand
- Practical cases presented by practising experts
- State-of-the-art interactive video systems
- Teaching supported by telepractice
- Continuous updating and recycling systems
- Autonomous learning: full compatibility with other occupations
- Practical exercises for self-assessment and learning verification
- Support groups and educational synergies: questions to the expert, debate and knowledge forums
- Communication with the teacher and individual reflection work
- Content that is accessible from any fixed or portable device with an Internet connection
- Supplementary documentation databases are permanently available, even after the course

Introduction | 07 tech



A course that will enable you to work in the sectors of food production for or with animal origin, with the solvency of a highlevel professional"

TECH's teaching staff is made up of professionals from different fields related to this specialty. That way, TECH ensures to offer students the educational program and updating intended. A multidisciplinary team of professionals prepared and experienced in different environments, who will cover the theoretical knowledge in an efficient way, but, above all, will bring the practical knowledge derived from their own experience to the course: one of the differential qualities of this course.

This mastery of the subject is complemented by the effectiveness of the methodological design of this Postgraduate Certificate. Developed by a multidisciplinary team of e-learning experts, it integrates the latest advances in educational technology. In this way, our students will be able to study with a range of convenient and versatile multimedia tools that will give them the operability they need during the program.

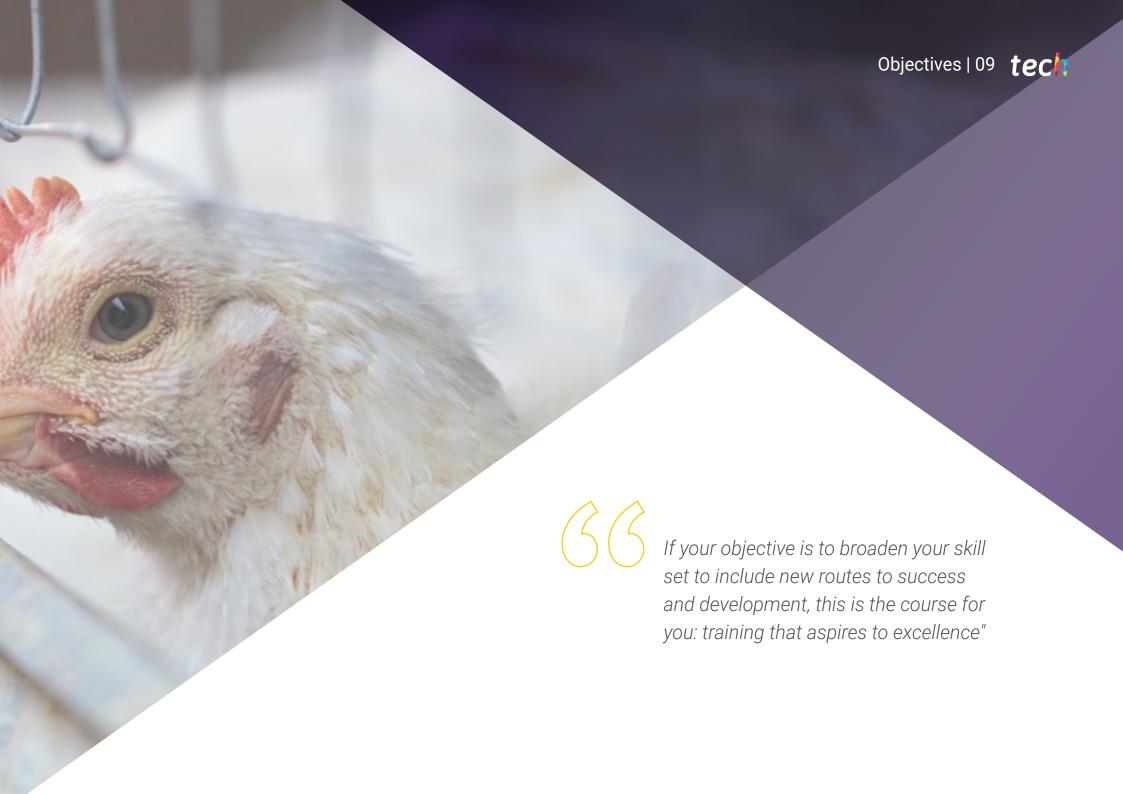
The design of this program is based on Problem-Based Learning: an approach that conceives learning as a highly practical process. To achieve this remotely, telepractice will be used: with the help of an innovative system of interactive videos, and learning from an expert they will be able to acquire the knowledge as if they were facing the case they are learning in real time. A concept that will allow students to integrate and memorize what they have learnt in a more realistic and permanent way.

Become one of the most demanded professionals of the moment: Educate yourself yourself with our Postgraduate Certificate in Poultry Nutrition and Feeding.

A Postgraduate Certificate that provides you with resources and strategies to implement mathematics through play and, moreover, it's 100% online!







tech 10 | Objectives



General Objective

- Determine the properties, use and metabolic transformations of nutrients in relation to the nutritional needs of an animal
- Provide clear and practical tools so that the professional can identify and classify the different foods that are available in the region and have better elements of judgment to make the most appropriate decision in terms of differential costs, etc
- Propose a series of technical arguments which allow for a better quality of diet and nutrition and therefore, improve the end produce (meat or milk)
- Analyze the different raw material components with both positive and negative effects on Animals. Nutrition and how animals use them for the production of animal protein
- Identify and understand the different levels of digestibility for each of the various nutritional components according to their origin
- To analyze the key aspects for the design and creation of diets (food) aimed at achieving the maximum utilization of nutrients by animals intended for animal protein production
- Provide specialized training on the nutritional requirements for the two main species of Pigs to be used in animal protein production
- Develop specialized understanding of the nutritional requirements of the porcine species and the different feeding strategies needed in order to guarantee that they reach the expected welfare and production standards according to their production stage

- Provide practical, theoretical and specialized knowledge on the physiology of Canine and feline digestive systems
- Analyze the digestive system of ruminants and their particular way of assimilating nutrients from fiber-rich foods
- Analyze the main additive groups used in the food production industry, focused on ensuring the guality and performance of different food products
- Analyze, in a clear way, how the complete animal feed manufacturing process is developed: the phases and processes which feed undergoes to guarantee its nutritional composition, quality and safety



A path to achieve education and professional growth that will propel you towards a greater level of competitiveness in the employment market"

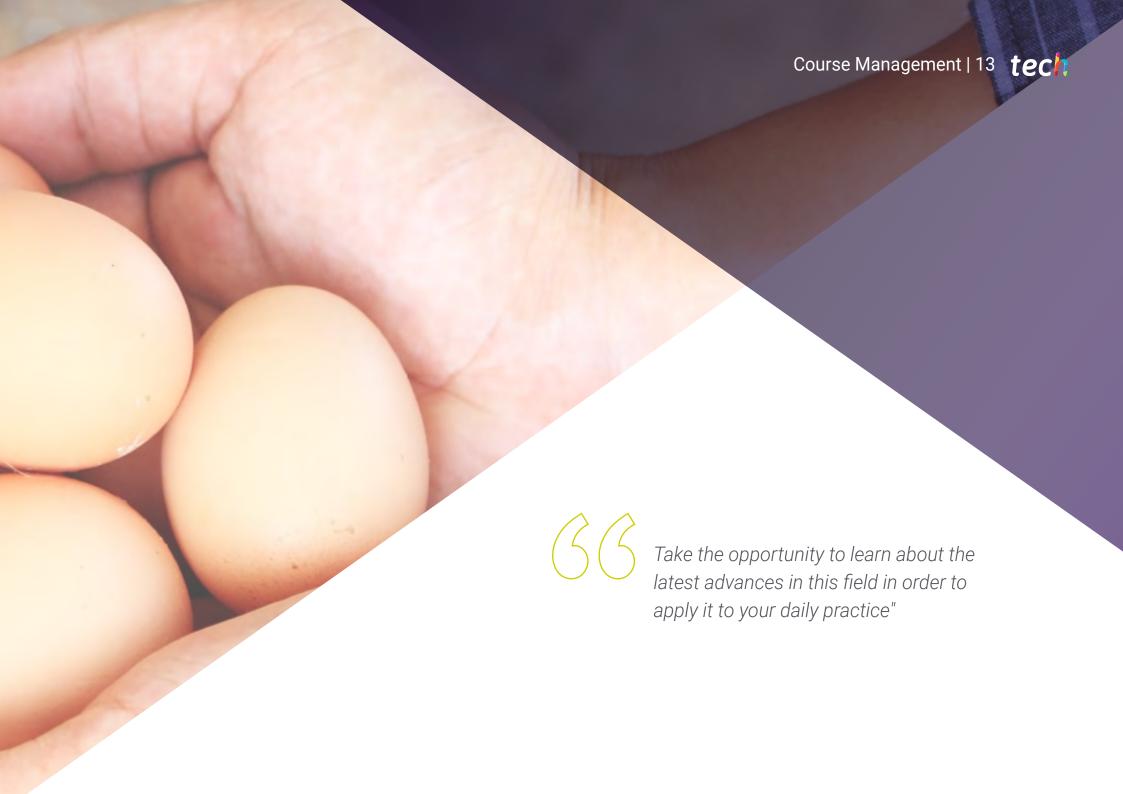


Specific Objectives

- Establish the nutritional requirements and the feeding programs of broiler chickens
- Specify the nutritional requirements of laying hens (commercial eggs)
- Specify the nutritional requirements and feeding programs in cutting matrices
- Identify the critical phases of broilers and layers and the adjustments that can be implemented through the use of special diets
- Establish the different nutritional strategies used to manage challenges such as heat stress and shell quality
- Analyze the Nutritional Profiles and Strategies that allow higher yield of meat cuts and modification of egg size
- Determine the different production phases in commercial poultry farming by species
- Compile the different feeding programs in commercial poultry farming
- Apply different strategies in the application of feeding programs focused on guaranteeing zootechnical results







tech 14 | Course Management

Management



Dr. Cuello Ocampo, Carlos Julio

- Technical Director at Huvepharma in Latin America
- Degree in Veterinary Medicine from the National University of Colombia
- Professional Master's Degree in Animal Production with emphasis on Monogastric Nutrition at the Universidad Nacional de Colombia
- Postgraduate Certificate in Ration Formulation for Productive Species at the University of Applied and Environmental Sciences UDCA

Professors

Dr. Fernández Mayer, Anibal Enrique

- Academic Research at INTA
- Specialist and Private Advisor in Milk Production
- Technician Specialized in Animal Production at the Bordenave Agricultural Experimental Station (EEA)
- Agricultural Engineer from the University of Nacional de la Plata
- Veterinary Doctor from the La Habana Agricultural University

Dr. Páez Bernal, Luis Ernesto

- Commercial Director at BIALTEC, a company dedicated to efficient and sustainable animal nutrition
- Doctor in Nutrition and Monogastric Production from Viçosa Federal University
- Bachelor's Degree in Veterinary from the National University of Colombia
- Master's Degree in Zootechnics from Viçosa Federal University
- Lecturer

Dr. Sarmiento García, Ainhoa

- Collaborative Researcher at the Faculty of Agricultural and Environmental Sciences and the Polytechnic School of Zamora
- Research Director at Entogreen
- Reviewer of scientific articles in Iranian Journal of Applied Science
- Veterinarian in charge of the nutrition department at Casaseca Livestock
- Veterinary Clinic El Parque in Zamora
- Associate Professor at the Faculty of Agricultural Sciences of the University of Salamanca
- Degree in Veterinary Medicine from the University of León
- PhD. in Chemical Science and Technology from the University of Salamanca
- Master's Degree in Innovation in Biomedical and Health Sciences by the University of León

D. Ordoñez Gómez, Ciro Alberto

- Researcher specialized in animal nutrition
- Author of the book Glycerin and biodiesel by-products: alternative energy for poultry and swine feed
- Lecturer in the area of animal nutrition and feeding at the Francisco de Paula Santander University
- Master's Degree in animal production at the Francisco de Paula Santander University
- Degree in Animal Husbandry from Francisco de Paula Santander University

Dr. Portillo Hoyos, Diana Paola

- Zootechnician at Dog Home Veterinary Clinic
- Zootechnician at Productos Lácteos San Andrés
- Expert researcher in Animal Production
- Co-author of several books on veterenary
- Zootechnician at the National University of Colombia

Dr. Rodríguez Patiño, Leonardo

- Technical Manager at Avícola Fernandez (poultry company)
- Nutritionist at Grupo Casa Grande
- Nutritionist at Unicol
- Technical-Commercial Consultant at PREMEX
- Nutritionist at Corporación Fernández for Broilers and Pigs
- Master's Degree in Animals. Nutrition
- Zootechnician at the National University of Colombia

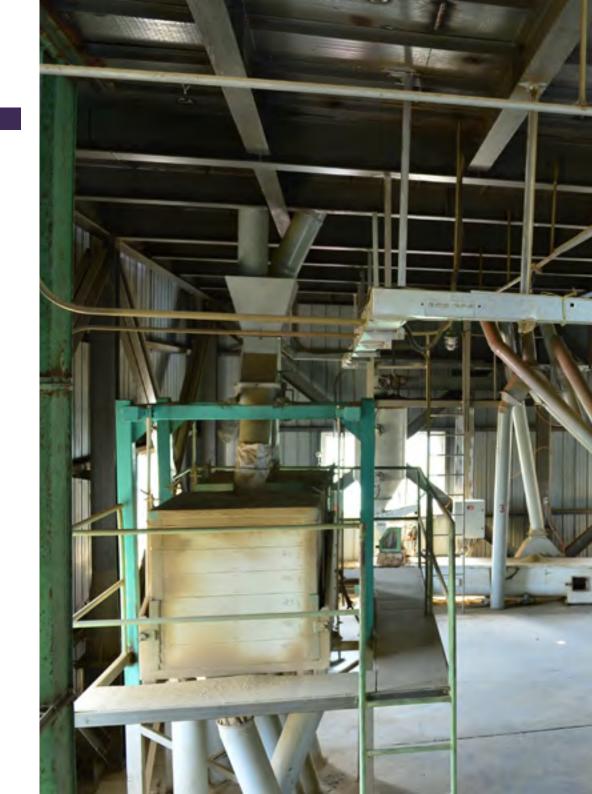




tech 18 | Structure and Content

Module 1. Nutrition and Food in Poultry

- 1.1. Broiler Chickens, Feeding Programs and Nutritional Requirements
 - 1.1.1. Genetic Evolution and Changes in Nutritional Requirements
 - 1.1.2. Food Programs
 - 1.1.3. Nutritional Requirements in the Main Genetic Lines
 - 1.1.4. Nutrition by Gender
 - 1.1.5. Nutritional Strategies to Reduce Environmental Impact
- 1.2. Special Food for Broiler Chickens
 - 1.2.1. Transport Feed (from Hatchery to Farm)
 - 1.2.2. Pre-Starter Food
 - 1.2.3. Finishing Food
- 1.3. Nutritional Strategies to Improve the Quality of a Whole Chicken
 - 1.3.1. Production Focus: Whole Chicken or Chicken Pieces
 - 1.3.2. Feeding Program for Chicken Pieces
 - 1.3.3. Nutritional Adjustments for Increased Chicken Breast Yield
 - 1.3.4. Strategies to Ensure the Quality of Fresh or Chilled Whole Chickens
- 1.4. Pullet Chickens, Feeding Programs and Nutritional Requirements
 - 1.4.1. Nutritional Program According to Age and Performance
 - .4.2. Nutritional Specifications of Pullet Diets
 - 1.4.3. Factors Affecting the Performance and Optimization of Nutrient Consumption
- 1.5. Pre-Posture Diet
 - 1.5.1. What is the Purpose of a Pre-Posture Diet
 - 1.5.2. Supply Period
 - 1.5.3. Nutritional Profile of the Pre-Posture Diet
 - 1.5.4. Calcium and Phosphorus in Pre-Posture Diet
- 1.6. Layer Hens, Feeding Programs and Nutritional Requirements
 - 1.6.1. Posture Stages and Characteristics
 - 1.6.2. Staged Feeding Program
 - 1.6.3. Nutritional Requirements
 - 1.6.4. Consumption Models
 - 1.6.5. Food Texture
 - 1.6.6. Egg Size



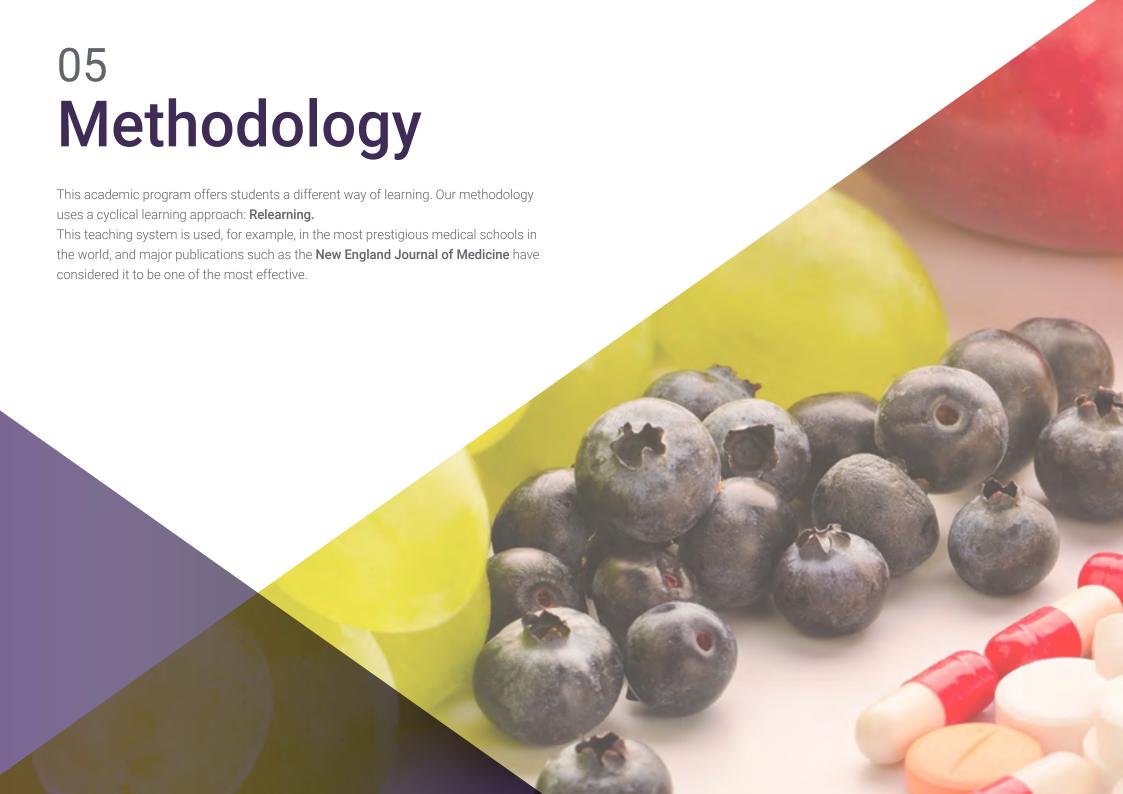


Structure and Content | 19 tech

- Nutrition and Egg Shell
 - Importance of the Shell Quality
 - Formation of the Shell
 - 1.7.3. Factors Which Affect a Good Quality Shell
 - 1.7.4. Nutritional Strategies and the Additives to Safeguard the Quality of the Shell
- Confusion Matrices, Feeding Programs and Nutritional Requirements
 - Development Stages of the Breeder
 - Feeding Program for Chicks
 - Nutritional Requirements of Chicks
 - Nutritional Program for Breeding Adults
 - Male Nutrition 1.8.5.
 - Nutrition and Hatchability
- Nutritional Strategies and the Additives for the Intestinal Health of the Poultry
 - Importance of Intestinal Health and Integrity
 - Aspects Which Challenge the Intestinal Integrity
 - Nutritional Strategies to Safeguard Intestinal Health
 - Additives and Programs for Intestinal Health
- 1.10. Caloric Stress and Nutritional Strategies
 - 1.10.1. Physiology and Caloric Stress
 - 1.10.2. Nutrition and Endogenous Heat Production
 - 1.10.3. Electrolyte Balance
 - 1.10.4. Physiological Mechanisms of Heat Dissipation in Birds
 - 1.10.5. Nutritional Strategies to Help Combat Caloric Stress



This training will allow you to advance in your career comfortably"





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At TECH we use the Case Methodology

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.



tech 24 | Methodology

Relearning Methodology

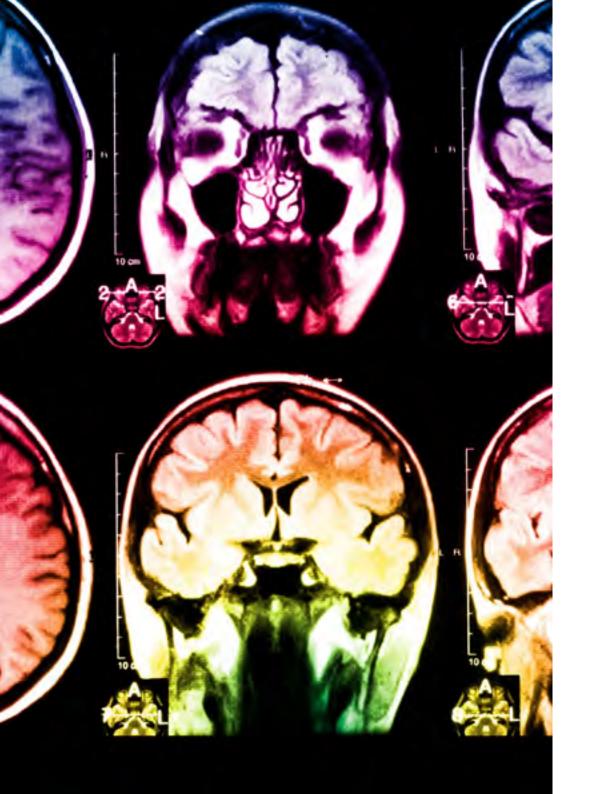
At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

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 | 25 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.

tech 26 | Methodology

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

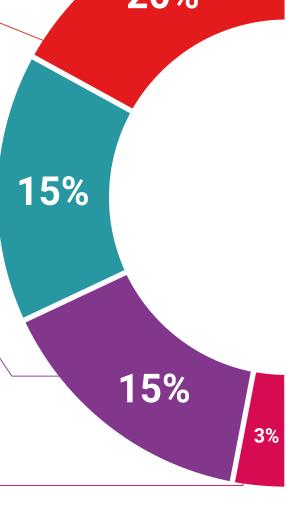
TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current nutritional counselling techniques and procedures. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all,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

Classes



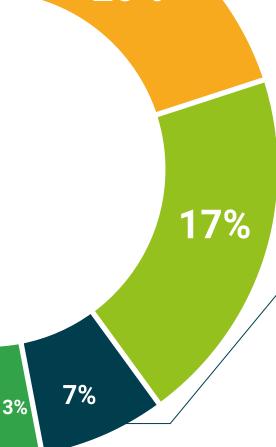
There is scientific evidence suggesting that observing third-party experts can be useful.

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.







tech 30 | Certificate

This **Postgraduate Certificate in Poultry Nutrition and Feeding** 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 reflect the qualification obtained in the Postgraduate Certificat, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: Postgraduate Certificate in Poultry Nutrition and Feeding N°. Official of Hours: 150 h.



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

technological university

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