Postgraduate Certificate Animal Feed Additives tech



Postgraduate Certificate Animal Feed Additives

» Modality: online» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/veterinary-medicine/postgraduate-certificate/animal-feed-additives

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tech 06 | Introduction

This Postgraduate Certificate in Additives in Animal Feed is unique given its level of specialization and the logical sequence of learning with which the content is ordered.

Its ultimate goal is to specialize and update professionals in the most advanced technical and scientific aspects of animal nutrition and feeding.

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.

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 upon to help solve the problem of producing sufficient and economical protein to feed this growing demand in an efficient and sustainable manner.

With an innovative format, this specialization allows participants to develop autonomous learning and optimal time management.

In short, it is an ambitious, broad, structured and interwoven proposal, which covers everything from the fundamental and relevant principles of nutrition to the manufacture of food. All this with the characteristics of a program of high scientific, teaching and technological level.

This Postgraduate **Certificate in Additives in Animal Feed** contains the most complete and up-to-date 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-evaluation and learning verification
- Support groups and educational synergies: questions to the expert, debate and knowledge forums.
- Communication with the teacher and individual reflection work
- Availability of content from any fixed or portable device with internet connection
- Supplementary documentation databases are permanently available, even after the Postgraduate Certificate



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



A Postgraduate Certificate that will enable you to work in Animal Feed Additives with the solvency of a highlevel professional".

Our teaching staff is made up of professionals from different fields related to this specialty. In this way we ensure that we deliver the educational update we are aiming for. A multidisciplinary team of professionals prepared and experienced in different environments, who will develop the theoretical knowledge in an efficient way, but, above all, will put at the service of this Postgraduate Certificate the practical knowledge derived from their own experience: one of the differential qualities of this specialization.

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. This way, you will be able to study with a range of comfortable and versatile multimedia tools that will give you the operability you need in your training.

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, we will use telepractice: with the help of an innovative interactive video system, and learning from an expert, you will be able to acquire the knowledge as if you were actually dealing with the scenario you are learning about. A concept that will allow you to integrate and fix learning in a more realistic and permanent way.

With a methodological design that relies on teaching techniques proven for their effectiveness, this Postgraduate Certificate inn Additives in Animal Feed will take you through different teaching approaches to allow you to learn in a dynamic and effective way.

With the experience of professionals in the analysis of real cases of success, in a high-impact educational approach.







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General Objectives

- 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 judgement to
 make the most appropriate decision in terms of differential costs, etc.differentiales, 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 education on the nutritional requirements of the two main species of pigs destined for 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 specialized theoretical and practical knowledge on the physiology of the digestive system of ruminants
- Analyze the digestive system of ruminants and their particular way of assimilating nutrients from fiberrich foods.

- Analyze the main additive groups used in the food production industry, focused on ensuring the quality 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 specialization and professional growth that will propel you towards a greater level of competitiveness in the employment market".





Specific Objectives

- Analyze the different types of additives which exist in the animal feed and nutrition market
- Define the recommendations for the use and functionality of the different additive groups
- Gain up-to -date knowledge of the new technology focused on improving the quality and efficiency of animal feed.
- Identify mycotoxins as the hidden enemy in diet quality, animal health and productivity; what are the strategies for their control, the different types and use of mycotoxin binders.
- Specialize in the use of enzymes in balanced feed, what they are, the differences between enzymes of the same category, what they are used for and the benefits of their incorporation in the diet
- Analyze phytogenics as a category that goes beyond essential oils; what they are, types of phytogenic substances, modes of use and benefits







An impressive teaching staff, made up of professionals from different areas of expertise, will be your teachers during your specialization: a unique occasion not to be missed".

tech 14 | Course Management

Management



Dr. Sarmiento García, Ainhoa

- Phd in Science and Chemical Technology. (09/ 09.2017 / 2019) University of Salamanca.
- University Master's in Innovation of Biomedical Sciences and Health. (10-10.2015 2016) University of Leon
- Degree in Veterinary Medicine. (09-10.2015 2014) University of Leon

Professors

Dr. Fernández Mayer, Anibal Enrique

- PhD in Veterinary Science
- Postdoctorate of Veterinary Science, with a focus on: Animal Nutrition in Institute of Animal Science (IAS)
- Agricultural Engineer, National University of La Plata (1975-1979), Buenos Aires.

Lic. Ordoñez Gómez, Ciro Alberto

- Animal technician
- Master's Degree in Animals. Nutrition
- University Professor in the area of animal nutrition with emphasis on ruminants

D. Portillo Hoyos, Diana Paola

• Professional Graduated from the National University of Colombia.

D. Rodríguez Patiño, Leonardo

• Animal technician with a Master's Degree in Veterinary Nutrition.

Dr. Páez Bernal, Luis Ernesto

- PhD in Monogastric Nutrition and Production
- Doctor Scientiae in Zootechnics, Nutrition and Monogastric Production. Federal University of Viçosa (UFV), MG, Brazil. 2008, MSc in Zootechnics, Nutrition and Monogastric Production. Federal University of Viçosa (UFV), MG, Brazil. 2004
- Medical veterinary with a Master's Degree in Monogastric Nutrition and Production
- Lecturer

Dr. Sarmiento García, Ainhoa

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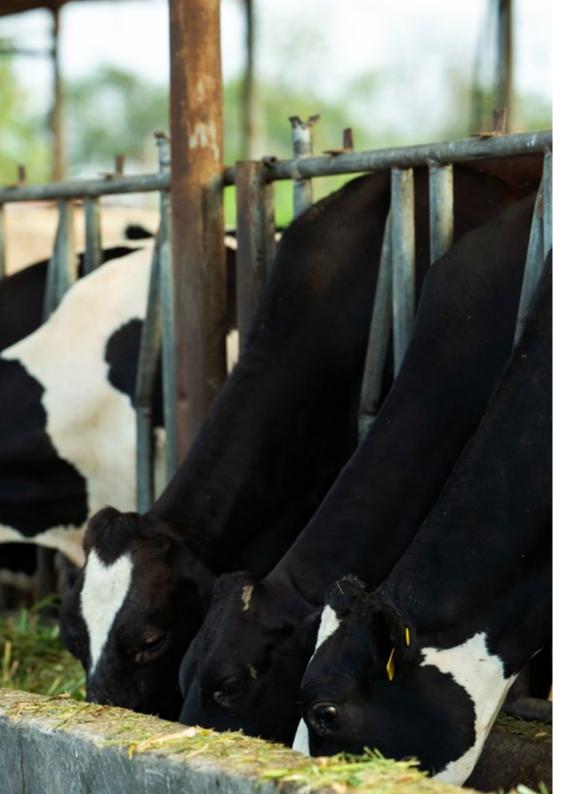


tech 18 | Structure and Content

Module 1. Animal Feed Additives

- 1.1. Definitions and Types of Additives Used in Animal Food
 - 1.1.1. Introduction
 - 1.1.2. Classification of Additive Substances
 - 1.1.3. Additives for Quality
 - 1.1.4. Performance Enhancing Additives
 - 1.1.5. Nutraceuticals.
- 1.2. Anticoccidials and GrowthPromoting Antibiotics
 - 1.2.1. Types of Anticoccidials
 - 1.2.2. Anticoccidials Programs.
 - 1.2.3. Growth-Promoting Antibiotics and Purposes of Use
- 1.3. Enzymes
 - 1.3.1. Phytases.
 - 1.3.2. Carbohydrases.
 - 1.3.3. Proteases.
 - 1.3.4. Mananasa Beta.
- 1.4. Antifungals and Mycotoxin Binders
 - 1.4.1. Importance of Fungal Contamination
 - 1.4.2. Types of Fungi that Contaminate Grains
 - 1.4.3. Substances with Antifungal Characteristics
 - 1.4.4. What are Mycotoxins?
 - 1.4.5. Types of Mycotoxins
 - 1.4.6. Types of Binders
- 1.5. Acidifiers and Organic Acids
 - 1.5.1. Objectives and Approaches to the Use of Acidifiers in Poultry and Swine
 - 1.5.2. Types of Acidifiers
 - 1.5.3. What are Organic Acids
 - 1.5.4. Main Organic Acids Used
 - 1.5.5. Mechanisms of action
 - 1.5.6. Technological Characteristics of Acidifiers

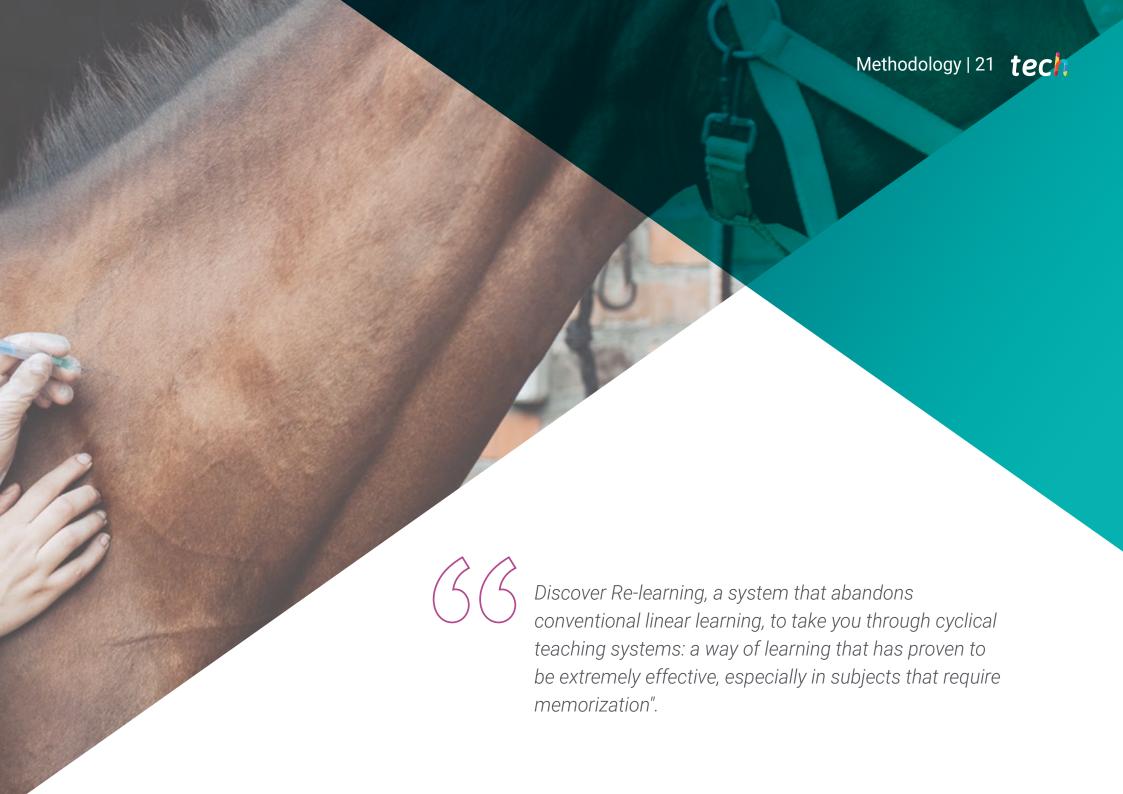




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- 1.6. Antioxidants and Pigmenting Agents
 - 1.6.1. Importance of Antioxidantes in Balanced Foods and Veterinary Nutrition.
 - 1.6.2. Natural and Synthetic Anitoxidants
 - 1.6.3. How Antioxidants Work
 - 1.6.4. Pigmentation in the Egg and the Chicken
 - 1.6.5. Pigment Sources
- 1.7. Probiotics, Prebiotics, and Symbiotics
 - 1.7.1. Differences between Probiotics, Prebiotics, and Symbiotics
 - 1.7.2. Types of Probiotics and Prebiotics
 - 1.7.3. Approaches and Strategies of Use
 - 1.7.4. Benefits of Poultry and Pig Farming
- 1.8. Odor Control Products
 - 1.8.1. Air Quality and Ammonia Control in Poultry Farming
 - 1.8.2. Yucca Shidigera
 - 1.8.3. Odour Controls in Pig Farming
- 1.9. Phytogenics.
 - 1.9.1. What are Phytogenic Substances
 - 1.9.2. Types of Phytogenic Substances
 - 1.9.3. Procurement Processes
 - 1.9.4. Mechanisms of action
 - 1.9.5. Essential Oils.
 - 1.9.6. Flavonoids
 - 1.9.7. Pungent Substances, Saponins, Tannins and Alkaloids
- 1.10. Bacteriophages and Other New Technologies
 - 1.10.1. What atr Bacteriophages?
 - 1.10.2. Reccomendations for Use.
 - 1.10.3. Proteins and Bioactive Peptides.
 - 1.10.4. Egg Immunoglobulins.
 - 1.10.5. Additives for the Correction of Process Losses



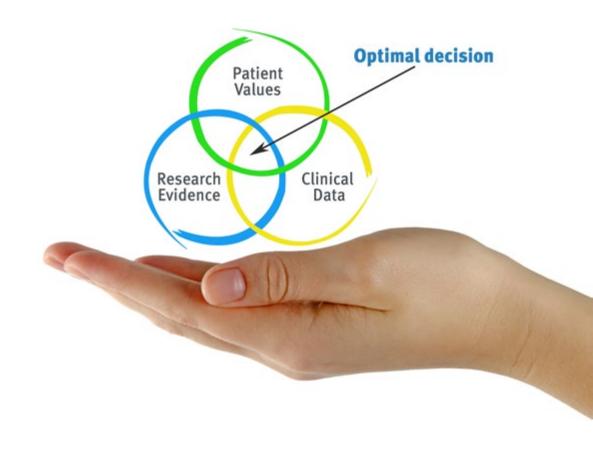


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At TECH we use the Case Method

In a given clinical 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. 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 potential or because of its uniqueness or rarity. It is essential that the case be based on current professional life, trying to recreate the real conditions in the Veterinarian's Professional 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:

- 1. Veterinarians 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. 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. The feeling that the effort invested is effective becomes a very important motivation for veterinarians, which translates into a greater interest in learning and an increase in the 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.

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



Methodology | 25 tech

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 65,000 veterinarians 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 training, 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.

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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

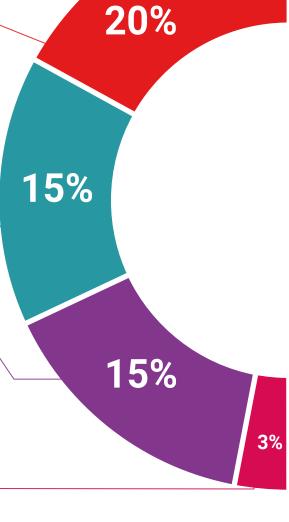
We bring you closer to the latest Techniques, to the latest Educational Advances, to the forefront of current Veterinary Techniques and Procedures. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as 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.



17%

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.





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.









tech 30 | Certificate

This program will allow you to obtain your **Postgraduate Certificate in Animal Feed Additives** 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 Animal Feed Additives

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



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

Postgraduate Certificate in Animal Feed Additives

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.

tech global university



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