Postgraduate Diploma Canine and Feline Nutrition and Diet for Nutritionists





Postgraduate Diploma Canine and Feline Nutrition and Diet for Nutritionists

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/in/nutrition/postgraduate-diploma/postgraduate-diploma-canine-feline-nutrition-diet-nutritionists

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Certificate

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01 Introduction

An increasing number of nutritionists want to specialize and broaden their knowledge in canine and feline diets. Consequently, this comprehensive program arises from the growing demand of professionals in this field, in order to teach nutritionists the properties, utilization, and metabolic transformations of nutrients in relation to the nutritional needs of the animal.



Become one of the most demanded professionals of the moment: train to be a specialist in Canine and Feline Nutrition and Diet for Nutritionists"

tech 06 | Introduction

This Postgraduate Diploma in Canine and Feline Nutrition and Diet for Nutritionists is unique given its level of specialization and the logical learning sequence in which the content is organized.

This comprehensive The Postgraduate Diploma in Canine and Feline Nutrition and Diet develops specialized knowledge of small animal nutrition. It analyzes the physiology and functioning of the digestive system of both species, as well as the main differences between them, allowing the professional nutritionist to have a deeper knowledge of the digestive system.

It is designed for professional nutritionists to update and perfect their technical and practical knowledge in this field. A effective and comprehensive Postgraduate Diploma that will help you to achieve a higher level of skills.

This training's innovative format allows participants to learn autonomously and to make the best use of their time.

In short, it is an ambitious, broad, structured and interconnected proposal which covers everything from the fundamental and relevant principles of nutrition to feed manufacturing. A program that includes all the high-level features of a scientific, educational and technological course.

These are some of its most notable features:

- Latest technology in online teaching software.
- Highly visual teaching system, supported by graphic and schematic contents that are 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.
- Self-regulating 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 course.

Join the elite, with this highly effective training training and open new paths to help you advance in your professional progress" A course that will enable you to work in food production sectors for or from animals, with the solvency of a high-level professional"

Our teaching staff is made up of professionals from different fields related to this specialty. In this way, we ensure that we provide you with the training update we are aiming for. A multidisciplinary team of professionals trained and experienced in different environments, who will cover the theoretical knowledge in an efficient way, but, above all, will put the practical knowledge derived from their own experience at the service of the course: one of the differential qualities of this course.

This mastery of the subject matter is complemented by the effectiveness of the methodology used in the design of this Postgraduate Diploma. 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 based on proven teaching techniques, this Postgraduate Diploma in Canine and Feline Nutrition and Diet for Nutritionists will take you through different teaching approaches to allow you to learn in a dynamic and effective way.

02 **Objectives**

Our objective is to train highly qualified professionals for work experience. An objective that is complemented, moreover, in a global manner, by promoting human development that lays the foundations for a better society. This objective is focused on helping medical professionals reach a much higher level of expertise and control. A goal that you will be able to achieve thanks to a highly intensive and detailed course.

If your objective is to broaden your skill set to include new paths to success and development, this is the Postgraduate Diploma for you: a training that aspires to excellence"

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 judgement to make the most appropriate decision in terms of differential costs, etc.diferenciales, 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 animal nutrition and how animals use of 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 birds 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 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.

Objectives | 11 tech





Specific Objectives

- Utilize extensive knowledge of all aspects of nutrients to understand the processes of energy and animal protein production
- Recognise the importance of water as a nutrient.
- Understand the importance of the concept of digestibility and intestinal integrity and to know which are the factors that influence them.
- Define the use and characteristics of fats in animal nutrition.
- Define the use of antibiotics in animal nutrition.
- Recognise all nutritional aspects of cats and dogs and identify the myths surrounding them.
- Know how to establish appropriate dietary treatments for every circumstance or pathology.
- Determine what foods are available in the market and their suitability.

04 Course Management

For our course to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.

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

tech 14 | Course Management

Coordinator



Dr. Cuello Ocampo, Carlos Julio

- Veterinarian with extensive experience in the areas of Health, Production, Nutrition and Feeding in the line of Poultry, Swine and Cattle Farming.
- Master's Degree in Ration Formulation for Productive Species
- Experience in the use and formulation of additives for animal nutrition.
- Experience in farm management and feed mill development and formulation consulting.
- Technical Director in Huvepharma NV Laboratories (Bulgaria)

Course Management | 15 tech

Professors

Dr. Cuello Ocampo, Carlos Julio

- Veterinarian with extensive experience in the areas of Health, Production, Nutrition and Feeding in the line of Poultry, Swine and Cattle Farming.
- Master's Degree in Ration Formulation for Productive Species
- Experience in the use and formulation of additives for animal nutrition.
- Experience in farm management and feed mill development and formulation consulting.
- Technical Director in Huvepharma NV Laboratories (Bulgaria)

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.

Dr. Ordoñez Gómez, Ciro Alberto

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

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. Portillo Hoyos, Diana Paola

• Professional Graduated from the National University of Colombia.

Dr. Rodríguez Patiño, Leonardo

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

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 León
- Degree in Veterinary Medicine. (09-10.2015 2014) University of León

05 Structure and Content

The contents of this training have been developed by the different experts in this course with a clear purpose: to ensure that our students acquire each and every one of the necessary skills to become true experts in this field.

A complete and well-structured program that will take you to the highest standards of quality and success.

A comprehensive teaching program, structured in well-developed teaching units, oriented towards learning that is compatible with your personal and professional life"

tech 18 | Structure and Content

Module 1. Nutrients and Metabolism.

- 1.1. Carbohydrates.
 - 1.1.1. Carbohydrates in Animal Food.
 - 1.1.2. Classification of Carbohydrates.
 - 1.1.3. Digestion Process.
 - 1.1.4. Fiber and Digestion of Fiber.
 - 1.1.5. Factors which Affect the Utilistion of Fiber.
 - 1.1.6. Physical Function of Fibre.
- 1.2. Metabolism of Carbohydrates.
 - 1.2.1. Metabolic Fate of Carbohydrates.
 - 1.2.2. Glycolysis, Glycogenolysis, Glycogenesis and Gluconeogenesis.
 - 1.2.3. Pentose Phosphate Cycle.
 - 1.2.4. Krebs Cycle.
- 1.3. Lipids.
 - 1.3.1. Classification of Lipids.
 - 1.3.2. Functions of Lipids.
 - 1.3.3. Fatty Acids.
 - 1.3.4. Digestion and Absorption of Fats.
 - 1.3.5. Factors which Affect Lipid Digestion.
- 1.4. Functions of Lipids.
 - 1.4.1. Metabolic Fate of Lipids.
 - 1.4.2. Fat Metabolism Energy.
 - 1.4.3. Oxidative Rancidity.
 - 1.4.4. Essential Fatty Acids.
 - 1.4.5. Lipid Metabolism Problems.
- 1.5. Energetic Metabolism.
 - 1.5.1. Measurement of Heat Reaction.
 - 1.5.2. Biological Partitioning of Energy.
 - 1.5.3. Nutrient Caloric Increase.
 - 1.5.4. Energy Balance.
 - 1.5.5. Environmental Factors that Influence Energy Requirements.
 - 1.5.6. Characteristics of Energy Deficiencies and Excesses.

Structure and Content | 19 tech

1.6. Proteins

- 1.6.1. Protein Classification.
- 1.6.2. Functions of the Different Proteins.
- 1.6.3. Digestion and Absorption of Proteins.
- 1.6.4. Factors which Affect Protein Digestion.
- 1.6.5. Nutritional Classification of Amino Acids for Poultry and Swine.
- 1.7. Protein Metabolism in Poultry and Swine.
 - 1.7.1. Metabolic Fate of Proteins.
 - 1.7.2. Gluconeogenesis and Degradation of Amino Acids.
 - 1.7.3. Excretion of Nitrogen and Synthesis of Uric Acid.
 - 1.7.4. Imbalance of Amino Acids and Energetic Cost of Protein Metabolism.
 - 1.7.5. Interaction Between Amino Acids.
- 1.8. Vitamins and Minerals.
 - 1.8.1. Vitamin Classification.
 - 1.8.2. Vitamin Requirements for Poultry and Swine.
 - 1.8.3. Vitamin Deficiencies.
 - 1.8.4. Macro and Micro minerals.
 - 1.8.5. Interaction Between Minerals.
 - 1.8.6. Organic Chelates.
- 1.9. Mineral and Vitamin Metabolism.
 - 1.9.1. Vitamin Interdependence.
 - 1.9.2. Deficiencies and Toxicity of Vitamins.
 - 1.9.3. Choline.
 - 1.9.4. Metabolism of Calcium and Phosphorus.
 - 1.9.5. Electrolyte Balance.
- 1.10. Water. The Forgotten Nutrient.
 - 1.10.1. Principal Functions of Water.
 - 1.10.2. Distribution of Water in an Organism.
 - 1.10.3. Sources of Water.
 - 1.10.4. Factors Affecting Water Requirements.
 - 1.10.5. Water Requirements.
 - 1.10.6. Requirements for the Quality of Drinking Water.

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Module 2. Digestibility, Ideal Protein and Advances in Animal Nutrition

- 2.1. Apparent Digestibility Coefficients.
 - 2.1.1. Techniques to Obtain the Ileal Digesta.
 - 2.1.2. Methodology to Calculate Digestibility.
- 2.2. Endogenous Losses.
 - 2.2.1. Origin and Composition of Endogenous Amino Acids.
 - 2.2.2. Techniques to Measure Endogenous Losses.
- 2.3. Standardized Coefficients and True Digestibility.
- 2.4. Factors Affecting Digestibility Coefficients.
 - 2.4.1. Age and Physical State.
 - 2.4.2. Food Consumption and Composition.
- 4.5. Synthetic Amino Acids in Animal Nutrition.
 - 2.5.1. Synthesis of Synthetic Amino Acids.
 - 2.5.2. Use of Synthetic Amino Acids in Diets.
- 4.6. Ideal Protein and Advances in Protein Nutrition.
 - 2.6.1. Concept of Ideal Protein.
 - 2.6.2. Profiles of Ideal Protein.
 - 2.6.3. Use of Practical Applications.
- 2.7. Estimation of Nutritional Requirements Through Performance Experiments.
 - 2.7.1. Evaluation Methods for Nutritional Requirements.
 - 2.7.2. Determining Requirements.
- 2.8. Factors Affecting Ntrient Utilization.
 - 2.8.1. Age.
 - 2.8.2. Physical State.
 - 2.8.3. Level of Consumption.
 - 2.8.4. Environmental Conditions.
 - 2.8.5. Diet.
- 2.9. Importance of the Quality and Stability of Fats in Nutrition.
 - 2.9.1. Types of Fats.
 - 2.9.2. Nutritional Profile of Fats.
 - 2.9.3. Quality
 - 2.9.4. Inclusion of Fat in the Diet.

- 2.10. Organic Minerals in Monogastric Nutrition.
 - 2.10.1. Macrominerals.
 - 2.10.2. Microminerals.
 - 2.10.3. Structure of Organic Minerals.
- 2.11. The Importance of Intergrity and Intestinal Health in Animal Nutrition.
 - 2.11.1. Intestinal Physiology and Anatomy.
 - 2.11.2. Intestinal Health and Digestibility.
 - 2.11.3. Factors which Affect Intestinal Integrity.
- 2.12. Strategies for Animal Production Without Using Growth Enhancing Antibiotics.
 - 2.12.1. Effects of Antibiotics on Nutrition.
 - 2.12.2. Risk of Using Anitbiotics.
 - 2.12.3. Global Patterns.
 - 2.12.4. Formulation and Feeding Strategies.
- 2.13. Concept of Precision Nutrition.
 - 2.13.1. Diets Close Up.
 - 2.13.2. Animal Models.
 - 2.13.3. Ideal Protein.
 - 2.13.4. Physiological State.
 - 2.13.5. Growth Physiology.

Module 3. Canine and Feline Nutrition and Diet

- 3.1. Physiology of the Digestive System of Canines and Felines (I)
 - 3.1.1. Introduction.
 - 3.1.1. Functioning of the Digestive System.
 - 3.1.1. Principle Differences and Similarities Between Both Species.
- 3.2. Physiology of the Digestive System of Canines and Felines (II)
 - 3.2.1. Introduction.
 - 3.2.2. Balanced Diet.
 - 3.2.3. Factors that influence ingestion.
- 3.3. Requirements.
 - 3.3.1. Energy and Carbohydrates for Dogs and Cats.
 - 3.3.2. Fats and Proteins.
 - 3.3.3. Vitamins and Minerals.

- 3.4. Foods Available for Pet Animals.
 - 3.4.1. Introduction.
 - 3.4.2. Types of Diets.
 - 3.4.3. Owner's Interpretation of the Label.
- 3.5. Nutrition for Different Stages of Life (I)
 - 3.5.1. Introduction.
 - 3.5.2. Maintenance for Adults.
 - 3.5.3. Food for Puppies.
- 3.6. Nutrition for Different Stages of Life (II)
 - 3.6.1. Reproduction and Lactation.
 - 3.6.2. Food for Pets of an Advanced Age.
 - 3.6.3. A Special Case. Food for Racing Dogs.
- 3.7. Pathologies Derived from Nutrition and their Treatments (I)
 - 3.7.1. Introduction.
 - 3.7.2. The Obese Patient.
 - 3.7.3. The Underweight Patient.
- 3.8. Pathologies Derived from Nutrition and their Treatments (II)
 - 3.8.1. Cardiac Patient.
 - 3.8.2. Renal Patient.
 - 3.8.3. Liver patient.
- 3.9. Pathologies Derived from Nutrition and their Treatments (II)
 - 3.9.1. Gastrointestinal Problems.
 - 3.9.2. Skin Diseases.
 - 3.9.3. Diabetes mellitus.
- 3.10. Nutritional Management in Extreme Situations.
 - 3.10.1. Introduction.
 - 3.10.2. Food for a Sick Patient.
 - 3.10.3. Intensive Care Nutritional Support.



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

06 **Methodology**

This training 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.

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"

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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. Nutritionists 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 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 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:

- 1. Nutritionists 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 is solidly focused on practical skills that allow the nutritionist to better integrate the knowledge into clinical practice.
- 3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
- 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 26 | Methodology

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 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 | 27 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 have trained more than 45,000 nutritionists with unprecedented success, in all clinical specialties regardless of the workload. All this in a highly demanding environment, where the students have a strong socioeconomic 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.



tech 28 | Methodology

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 really specific and precise.

20%

15%

3%

15%

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.



Nutrition Techniques and Procedures on Video

We introduce you to the latest techniques, the latest educational advances, and the forefront of current nutritional procedures and 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 training system for presenting multimedia content 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.

20%

3%

7%

17%



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.



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.

07 **Certificate**

Through a different and stimulating learning experience, you will be able to acquire the necessary skills to take a big step in your training. An opportunity to progress, with the support and monitoring of a modern and specialized university, which will propel you to another professional level.



Add to your training this Postgraduate Diploma in Canine and Feline Nutrition and Diet for Nutritionists: a highly valued qualification for any professional in this field"

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This **Postgraduate Diploma in Canine and Feline Nutrition and Diet for Nutritionists** contains the most complete and up-to-date scientific program on the market.

After students have passed the assessments, they will receive, by certified mail, their corresponding **Postgraduate Certificate** issued by **TECH Technological University**.

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

Title: Postgraduate Diploma in Canine and Feline Nutrition and Diet for Nutritionists

ECTS: 18

Official Number of Hours: 450



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

technological university Postgraduate Diploma Canine and Feline Nutrition and Diet for Nutritionists » Modality: online » Duration: 6 months » Certificate: TECH Technological University » Dedication: 16h/week » Schedule: at your own pace » Exams: online

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