

Postgraduate Diploma

Ruminant Nutrition and Diet for Nutritionists





Postgraduate Diploma

Ruminant 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.techtute.com/in/nutrition/postgraduate-diploma/postgraduate-diploma-ruminant-nutrition-diet-nutritionists

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01

Introduction

This Postgraduate Diploma in Ruminant Nutrition and Diet for Nutritionists is unique given its level of specialization and the logical learning sequence in which the content is organized. The professional will learn to identify and know the digestibility levels of the different nutritional components according to their origin.

This is a unique opportunity to stand out in a professional field that is booming in high demand.



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Join the elite, with this highly effective training specialization and open new paths to help you advance in your professional progress.

The current world population is estimated to be 7.6 billion people and is expected to increase to 8.6 billion by 2030, making animal nutrition one of the called-upon disciplines to help solve the problem of producing sufficient and economical protein to efficiently and sustainably meet this growing demand.

This intensive specialization is designed for professional nutritionists to update and perfect their technical and practical knowledge in this field.

The Postgraduate Diploma in Ruminant Nutrition and Feeding for Nutritionists develops the main aspects related to digestive physiology, nutrition and diet of ruminants and their marked anatomical and physiological differences with respect to the other species studied, which allows them to have, as a main characteristic, the ability to take advantage of resources rich in fiber, such as pasture and forage, which have little nutritional value for non-ruminant species.

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



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

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.

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A course that will enable you to work in ruminant production sectors 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 settings, who will work through theoretical content in an efficient way, but, above all, will make available their own practical knowledge derived from experience: one of the distinguishing features of this specialization.

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. In this way, you will be able to study with a range of easy-to-use and versatile multimedia tools that will give you the necessary skills you need for your specialization.

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 Ruminant 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.





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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 specialization that aspires to excellence.



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. 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 expert specialization in the nutritional requirements for the two main bird species 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.



Specific Objectives

- ♦ Develop the different nutrients contained in the raw materials used in animal nutrition
- ♦ Develop the different components of each one of the nutrient groups
- ♦ Determine the destinations or metabolic pathways of nutrients to be utilized by the animal.
- ♦ Establish how animals obtain energy from different nutrients and what energy metabolism consists of.
- ♦ Analyze the different assimilation processes of nutrients that different species of animals have and which are necessary for their well-being and production
- ♦ Evaluate the importance of water as a nutrient and the effect that it has on animals
- ♦ Develop the concepts of digestibility and how it is determined.
- ♦ Analyze the advances in protein nutrition and the importance of synthetic amino acids in animal nutrition.
- ♦ Identify the factors which are involved in the definition of the different nutrient levels.
- ♦ Establish the critical points in the use of fats, their quality and effect on nutrition.
- ♦ Develop the basic concepts of organic minerals and their importance
- ♦ Justify the concept of intestinal integrity and how to enhance it in production.
- ♦ Analyze patterns in the use of antibiotics in animal nutrition.
- ♦ Define the patterns in precision nutrition and the most influential factors in its application.



- ♦ Analyze the digestive system of ruminants and their particular way of assimilating nutrients from fiber-rich foods.
- ♦ Analyze the nutritional metabolism of ruminants, recognising their potential and their limitations.
- ♦ Determine the nutritional requirements for the maintenance and production of the main ruminants of zootechnical interest.
- ♦ Examine the main food resources for ruminants' nutrition, their main characteristics, their advantages and limitations
- ♦ Evaluate the main feeding strategies for ruminants according to the production context

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

03

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.

Management



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 consulting for the development of balanced feeds.
- ♦ Technical Director in Huvepharma NV Laboratories (Bulgaria)

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. 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



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. 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. 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.

04

Structure and Content

The contents of this specialisation 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.





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

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.
- 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.



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.
- 2.5. Synthetic Amino Acids in Animal Nutrition.
 - 2.5.1. Synthesis of Synthetic Amino Acids.
 - 2.5.2. Use of Synthetic Amino Acids in Diets.
- 2.6. 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 Nutrient 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 Integritiy 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. Nutrition and Food in Ruminants

- 3.1. Digestion and Ruminal Process in Bovines.
 - 3.1.1. Anatomy of the Digestive System of a Ruminant.
 - 3.1.2. Physiology and Importance of Rumination.
 - 3.1.3. Ruminal Microorganisms and their Importance.
 - 3.1.4. Digestion of Carbohydrates in Rumen.
 - 3.1.5. Digestion of Fats in Rumen.
 - 3.1.6. Digestion of Nitrogen Compounds in Rumen.
- 3.2. Post-ruminal Digestion and Metabolism.
 - 3.2.1. Post-ruminal Digestion of Carbohydrates, Lipids and Proteins.
 - 3.2.2. Absorption of Nutrients in the Ruminant.
 - 3.2.3. Metabolism of Carbohydrates, Lipids and Proteins in Ruminants.



- 3.3. Protein Requirements.
 - 3.3.1. Methodology for Protein Titration in Ruminants.
 - 3.3.2. Maintenance Requirements.
 - 3.3.3. Gestation Requirements.
 - 3.3.4. Milk Production Requirements.
 - 3.3.5. Growth Requirements.
- 3.4. Energy Requirements.
 - 3.4.1. Methodology of Energetic Valuation in Ruminants.
 - 3.4.2. Maintenance Requirements.
 - 3.4.3. Gestation Requirements.
 - 3.4.4. Milk Production Requirements.
 - 3.4.5. Growth Requirements.
- 3.5. Fiber Requirements.
 - 3.5.1. Fiber Valuation Methods.
 - 3.5.2. Fiber Requirements for Maintaining Good Health and Production in Ruminants.
- 3.6. Mineral and Vitamin Requirements.
 - 3.6.1. Hydrosoluble Vitamins.
 - 3.6.2. Liposoluble Vitamins.
 - 3.6.3. Macrominerals.
 - 3.6.4. Microminerals.
- 3.7. Water, Requirements and Factors which Affect its Consumption.
 - 3.7.1. Importance of Water in the Production of Ruminants.
 - 3.7.2. Water Quality for Ruminants.
 - 3.7.3. Water Requirements for Ruminants.
- 3.8. Nutrition and Food in Lactating Ruminants.
 - 3.8.1. Physiology of Esophageal Leakage.
 - 3.8.2. Requirements in Lactating Ruminants.
 - 3.8.3. Diet Design for Lactating Ruminants.
- 3.9. Main Foods in Diets for Ruminants.
 - 3.9.1. Fibrous Foods.
 - 3.9.2. Energy Rich Foods.
 - 3.9.3. Protein Rich Foods.
 - 3.9.4. Vitamin Supplements.
 - 3.9.5. Mineral Supplements.
 - 3.9.6. Additives and Others.
- 8.10. Dietary Formulation and Supplements for Bovines.
 - 3.10.1. Requirement Calculations.
 - 3.10.2. Ration Balancing Methods.
 - 3.10.3. Dietary Formulation for Beef Cattle.
 - 3.10.4. Dietary Formulation for Dairy Cattle.
 - 3.10.5. Dietary Formulation for Sheep and Goats.

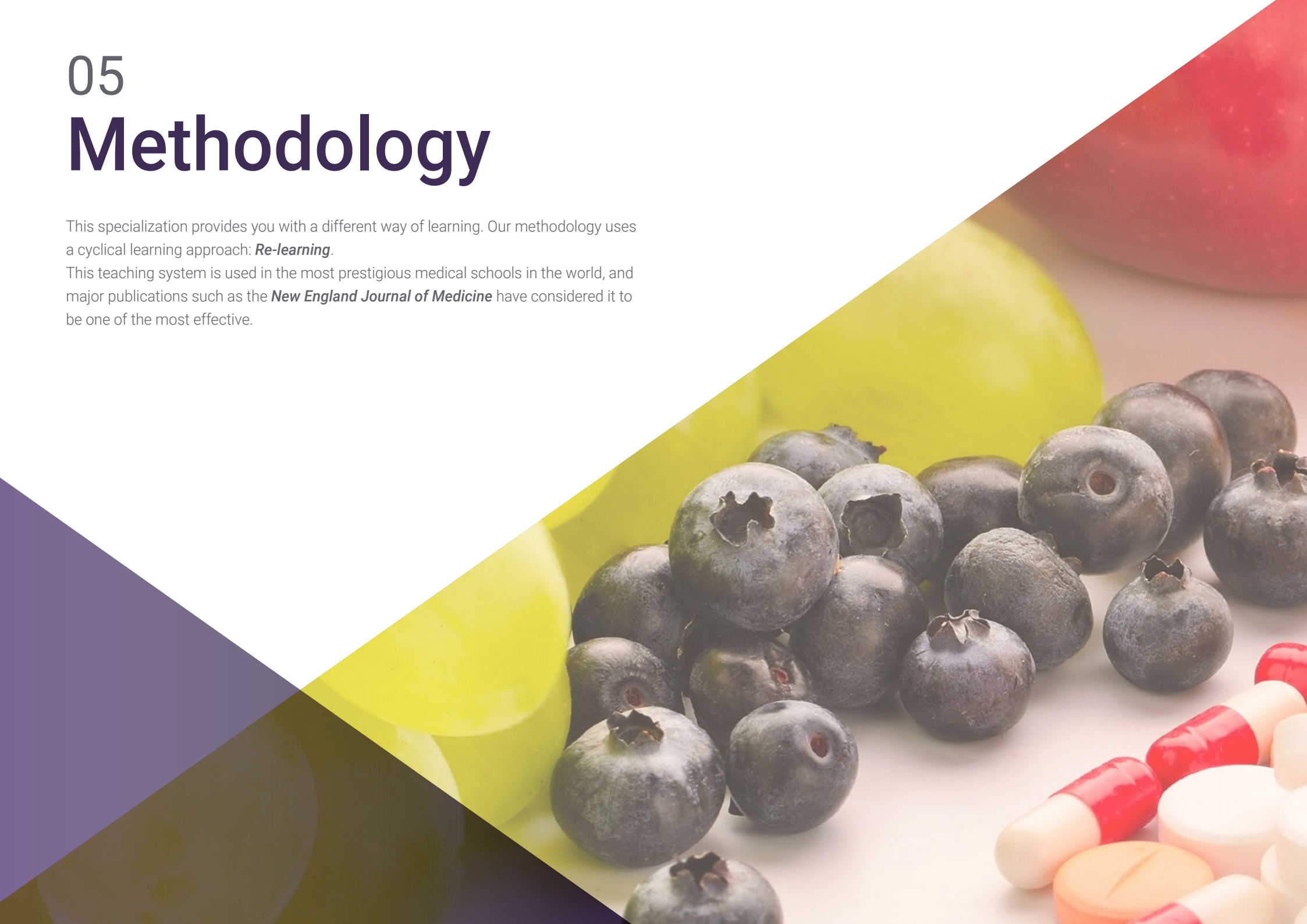


This specialization will allow you to comfortably advance in your career”

05 Methodology

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

This teaching system is used in the most prestigious medical schools in the world, and major publications such as the *New England Journal of Medicine* have considered it to be one of the most effective.





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

At TECH we use the Case Method

In a given 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.

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Did you know that this method was developed in 1912 at Harvard for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”

The effectiveness of the method is justified by four fundamental achievements:

1. 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.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



Re-Learning Methodology

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

Our University is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which represent a real revolution with respect to simply studying and analyzing cases.



The 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.

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 socio-economic profile and an average age of 43.5 years.

Re-learning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

In our program, learning is not a linear process, but rather a spiral (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

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



In this program you will have access to the best educational material, prepared with you in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is really 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.



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

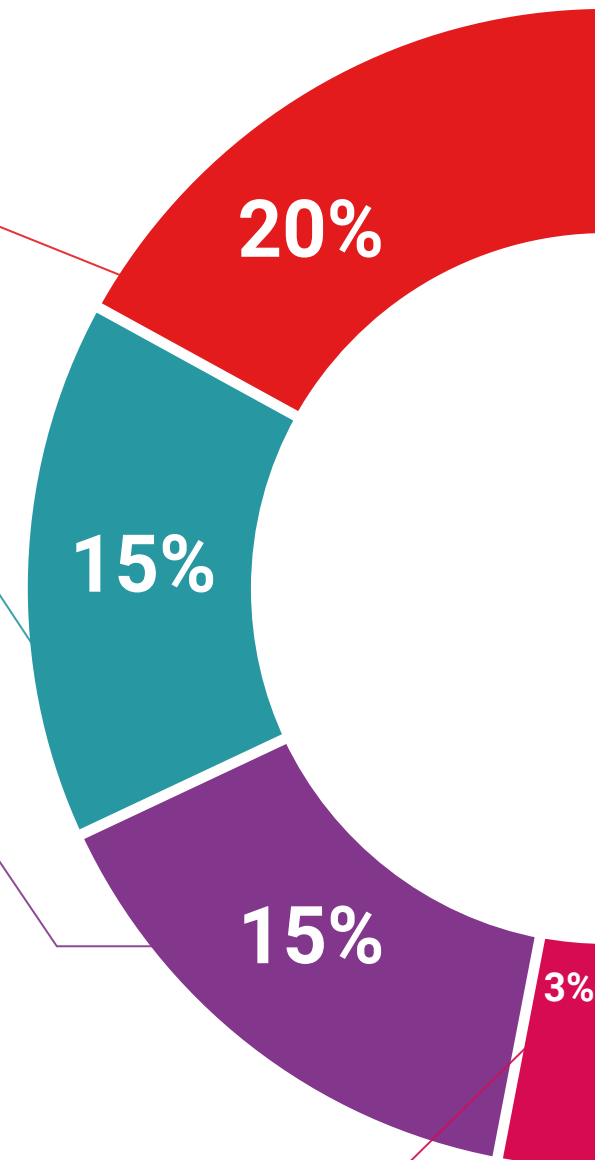
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This unique specialization 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 specialization.





Expert-Led Case Studies and Case Analysis

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



Testing & Re-testing

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



Classes

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

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



Quick Action Guides

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



06

Certificate

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.





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Add to your specialization this Postgraduate Diploma in Ruminant Feed Manufacturing for Nutritionists: a highly valued qualification for any professional in this field”

This **Postgraduate Diploma in Ruminant 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 through the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Diploma in Ruminant 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.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
online training
development language
classroom



Postgraduate Diploma
Ruminant Nutrition
and Diet for Nutritionists

- » Modality: **online**
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Postgraduate Diploma

Ruminant Nutrition and Diet for Nutritionists

