Postgraduate Certificate

Genetic Resource Management in Extensively Farmed Livestock Populations

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Postgraduate Certificate

Genetic Resource Management in Extensively Farmed Livestock Populations

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

Website: **www.techtitute.com/us/veterinary-medicine/postgraduate-certificate/genetic-resource-management-extensively-farmed-livestock-populations**

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01

Introduction

It is TECH's duty to participate in the conservation of as many animal genetic resources as possible, for which conservation programs for many species have been implemented.

These programs for the conservation and promotion of livestock allow for their exploitation and always seek sustainable development and maintenance of rural ecosystems, and further, the maintenance of the human population that must be cared for: the rural population.

Specialize in Genetic Resource Management in Extensively Farmed Livestock Populations with this high-level education.

We offer you the most comprehensive program on the market to bring extensive livestock management to the same level as clinical and sanitary practice, offering your clients the highest quality in both services"

The Postgraduate Certificate in Genetic Resource Management in Extensively Farmed Livestock Populations has a comprehensive program that covers the broadest spectrum of species and breeds used in extensive livestock production systems. Not only is in-depth and specialized attention paid to the most common productions, but also to other much less common but highly relevant productions, which demand a greater degree of specialization from professionals in the area.

Likewise, the degree of knowledge and professional experience of the professors of the Postgraduate Certificate allows them to deal with very specific productions, where it is very difficult to access levels of specialization, except for the small number of people who have had the opportunity to develop their knowledge within the scope of this type of livestock farming.

This program is the most specialized since the development of each subject is structured according to the knowledge and experience of the teaching team, avoiding generalist voluntarism which, although it can provide acceptable global visions, lacks the capacity to study in depth each and every one of the subjects that need to be addressed with the highest quality.

The high levels of knowledge provided by the faculty in the areas of economics, genetics and animal breeding contribute decisively to consolidate and expand knowledge in two areas that are absolutely fundamental to achieve success in the management of extensive livestock production.

This **Postgraduate Certificate in Genetic Resource Management in Extensively Farmed Livestock Populations** contains the most complete and up-to-date scientific program on the market. The most important features include:

- Case studies presented by experts in the management of veterinary centers
- The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional development
- New developments on Genetic Resource Management in Extensively Farmed Livestock Populations
- Practical exercises where self-assessment can be used to improve learning
- Special emphasis on innovative methodologies in the Genetic Resource Management in Extensively Farmed Livestock Populations
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection

Immerse yourself in this high-quality educational program, which will enable you to meet the future challenges in Genetic Resource Management in Extensively Farmed Livestock Populations"

This Postgraduate Certificate is the best investment you can make in selecting a refresher program to update your knowledge of Genetic Resource Management in Extensively Farmed Livestock Populations"

This program comes with the best educational material, providing you with a contextual approach that will facilitate your learning.

This 100% online Postgraduate Certificate will allow you to combine your studies with your professional work while increasing your knowledge in this field.

It includes, in its teaching staff, professionals belonging to the field of extensive livestock farming, who contribute to this training the experience of their work, in addition to recognized specialists from leading societies and prestigious universities.

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

This program is designed around Problem-Based Learning, whereby the specialist must try to solve the different professional practice situations that arise throughout the program. To do so, the professional will be assisted by an innovative interactive video system created by recognized experts in Extensive Livestock Management.

02

Objectives

The Postgraduate Certificate in Genetic Resource Management in Extensively Farmed Livestock Populations is designed to facilitate the performance of veterinary professionals based on the latest advances and most innovative treatments in the sector.

Our goal is to achieve academic excellence and to help you achieve professional success as well"

General Objectives

- Establish the concept of biodiversity and genetic diversity
- Analyze the current world situation of animal genetic resources
- Develop programs for the conservation of endangered livestock populations
- Develop programs to promote extensive populations of different livestock species

Take the opportunity and take the step to get up to date on the latest developments in Genetic Resource Management in Extensively Farmed Livestock Populations"

Specific Objectives

- Analyze the importance of biodiversity for the sustainability of the planet
- Evaluate the molecular tools available for the analysis of genetic diversity
- Propose criteria for the distribution of economic resources for the maintenance of the various endangered populations
- Identify the available conservation methods for the populations
- Determine the objectives and selection criteria in the different improvement and conservation programs
- Examine the methods of identification of individuals and parentage controls available to support selection and conservation programs
- Present the yield control programs for the various stocks
- Develop the methodology for carrying out genetic evaluations of candidate breeders

03

Course Management

The program includes in its teaching staff leading experts in Extensive Livestock, who pour into this training the experience of their work. They are world-renowned experts from different countries with proven theoretical and practical professional experience.

We have the best teaching team in the field of extensive livestock farming, with years of experience and determined to transmit all their knowledge about this sector"

Management

Dr. Rodríguez Montesinos, Adolfo

- PhD and Degree in Veterinary Medicine from the Complutense University of Madrid
- Graduated in Veterinary Medicine in 1979 with the qualification of Outstanding at the Complutense University of Madrid, subsequently carrying out the corresponding doctoral studies, finishing them with the reading of the Doctoral Thesis in 1992, qualified as Apto cum Laude
- Journalist Registered with the Federation of Press Associations and the Press Association of Madrid
- Coordinating Professor of Animal Production (Third year of the Veterinary Degree) and Ethnology (Second Postgraduate Certificate of the Veterinary Degree) at the Alfonso X El Sabio University from 2009 to the present
- Director of Final Degree Projects at Universidad Alfonso X El Sabio
- Training Coordinator, Director and Professor of Postgraduate Courses organized by the General Council of Veterinary Associations of Spain, for veterinarians on the fighting bull and expertise in bullfighting shows, taught in more than 200 editions from 1987 to the present

Professors

Dr. Buxadé-Carbo, Carlos Isidro

- Agronomist Engineer (E.T.S.I. Agronomists of Valencia)
- Diplomlandwirt (Faculty of Agriculture University of Kiel - R.F.A.)
- Dr. Agrar (Faculty of Agronomy University of Kiel - R.F.A.)
- Dr. Agronomist Engineer (E.T.S.I. Agronomists of the Polytechnic University of Madrid).
  1979: Master's Degree in Sales and Marketing Management (Instituto de Empresa. Madrid)
- Master's Degree in Financial Management (Instituto de Empresa. Madrid)
- Postgraduate Certificate in University Pedagogy (Universidad Politécnica de Madrid)
- Professor Emeritus of the Polytechnic University of Madrid (UPM)

04

Structure and Content

The contents have been designed and structured by the best professionals in Genetic Resource Management in Extensively Farmed Livestock Populations, with extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed and studied, and with a broad mastery of new technologies.

We have the most complete and up-to-date academic program on the market. We strive for excellence and for you to achieve it too"

Module 1. Genetic Resources of Extensive Populations and Programs for Improvement and Promotion of the Different Breeds

1.1. Relevance of Biodiversity in the Sustainable Development of the Planet
- 1.1.1. Biodiversity Concept
- 1.1.2. Importance of Biodiversity Conservation
- 1.1.3. Threats to the Maintenance of Biodiversity

1.2. Measurement of Genetic Diversity
- 1.2.1. Genetic Diversity
- 1.2.2. Consequences of the Loss of Genetic Diversity: Inbreeding
- 1.2.3. Molecular Tools for Measuring Diversity
- 1.2.4. Measures of Genetic Diversity
- 1.2.5. Genetics and Extinction

1.3. Animal Genetic Resources: Current Situation
- 1.3.1. Concept of Animal Genetic Resources
- 1.3.2. Distribution of Animal Genetic Resources at the Global Level
- 1.3.3. Distribution of Animal Genetic Resources by Domestic Species
- 1.3.4. Current Trends in Gene Flows

1.4. Methods of Conservation of Animal Genetic Resources
- 1.4.1. Inventory of Animal Genetic Resources
- 1.4.2. Conservation in situ
- 1.4.3. Conservation ex situ

1.5. Contribution of Native Breeds and the Extensive Farming System to the Maintenance of Biodiversity
- 1.5.1. Livestock and Landscape
- 1.5.2. Adaptation of Populations to the Environment
- 1.5.3. Conservation of Extensive Ecosystems
- 1.5.4. Livestock Utilization and Fire Prevention

1.6. Population Conservation Programs: Endangered Breeds
- 1.6.1. Justification for the Existence of Stock Conservation Programs. Socioeconomic Implications. Sustainable Development
- 1.6.2. Population Conservation Objectives
- 1.6.3. Stock Conservation Criteria
- 1.6.4. Methodology Used in the Conservation of Stocks
- 1.6.5. Forecast of Genetic Resources to be Utilized and Future Population Trends

1.7. Stock Enhancement Programs: Beef Cattle
- 1.7.1. Selection Objectives
- 1.7.2. Selection Criteria
- 1.7.3. Individual Identification and Parentage Control
- 1.7.4. Yield Control
- 1.7.5. Genetic Evaluations
- 1.7.6. Testing of Player Candidates
- 1.7.7. Dissemination of the Improvement

1.8. Population Improvement Programs: Small Ruminants
- 1.8.1. Selection Objectives
- 1.8.2. Selection Criteria
- 1.8.3. Individual Identification and Parentage Control
- 1.8.4. Yield Control
- 1.8.5. Genetic Evaluations
- 1.8.6. Testing of Player Candidates
- 1.8.7. Dissemination of the Improvement

1.9. Stock Improvement Programs: Extensive Pig Farming
- 1.9.1. Selection Objectives
- 1.9.2. Selection Criteria
- 1.9.3. Individual Identification and Parentage Control
- 1.9.4. Yield Control
- 1.9.5. Genetic Evaluations
- 1.9.6. Testing of Player Candidates
- 1.9.7. Dissemination of the Improvement

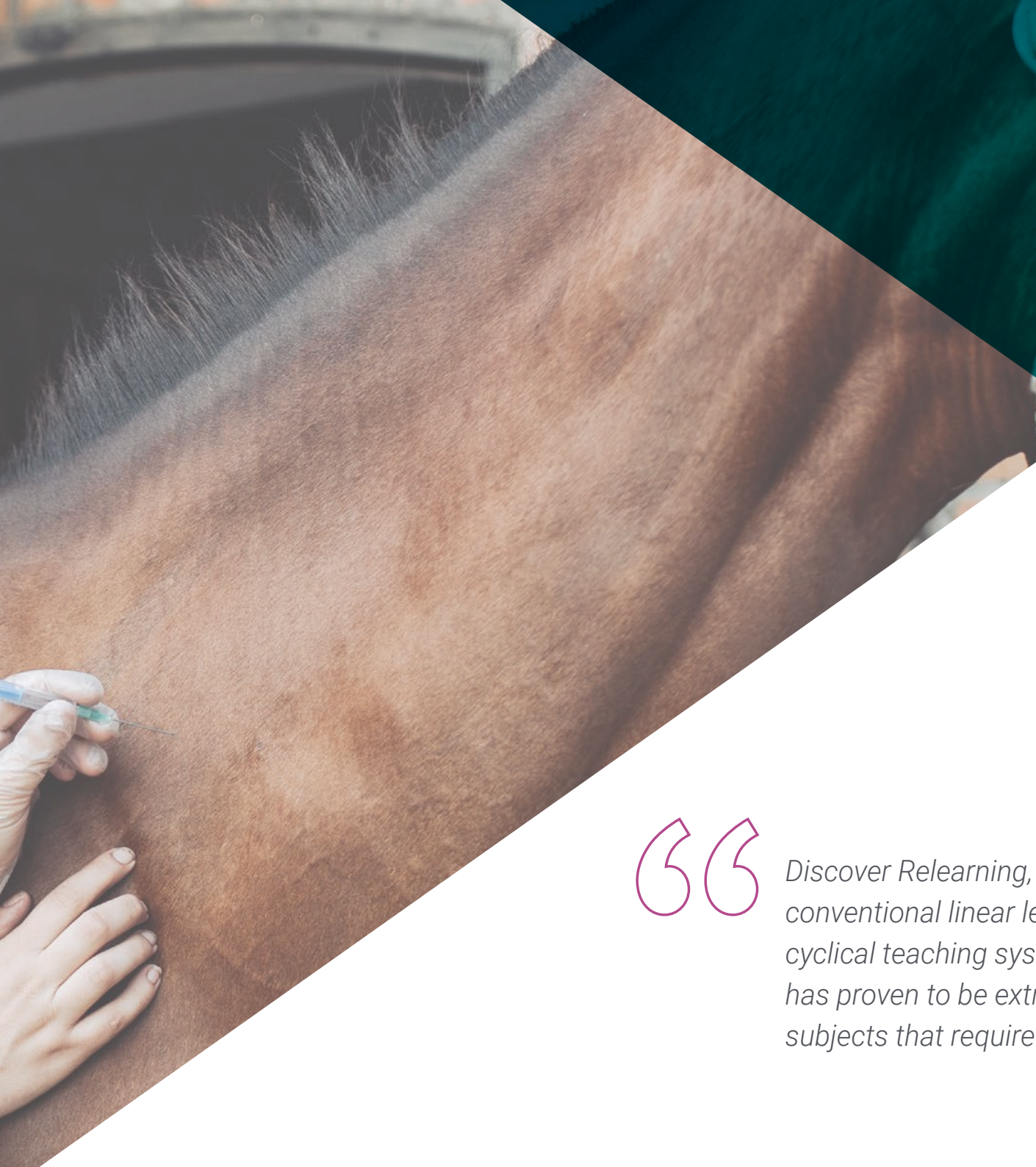
1.10. Population Conservation Programs: Other Species
- 1.10.1. Conservation Programs for Game Species
- 1.10.2. Conservation Programs for Other Species of Ecological Interest

This program will allow you to seamlessly advance in your career"

05

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.**
This teaching system is used, for example, 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.

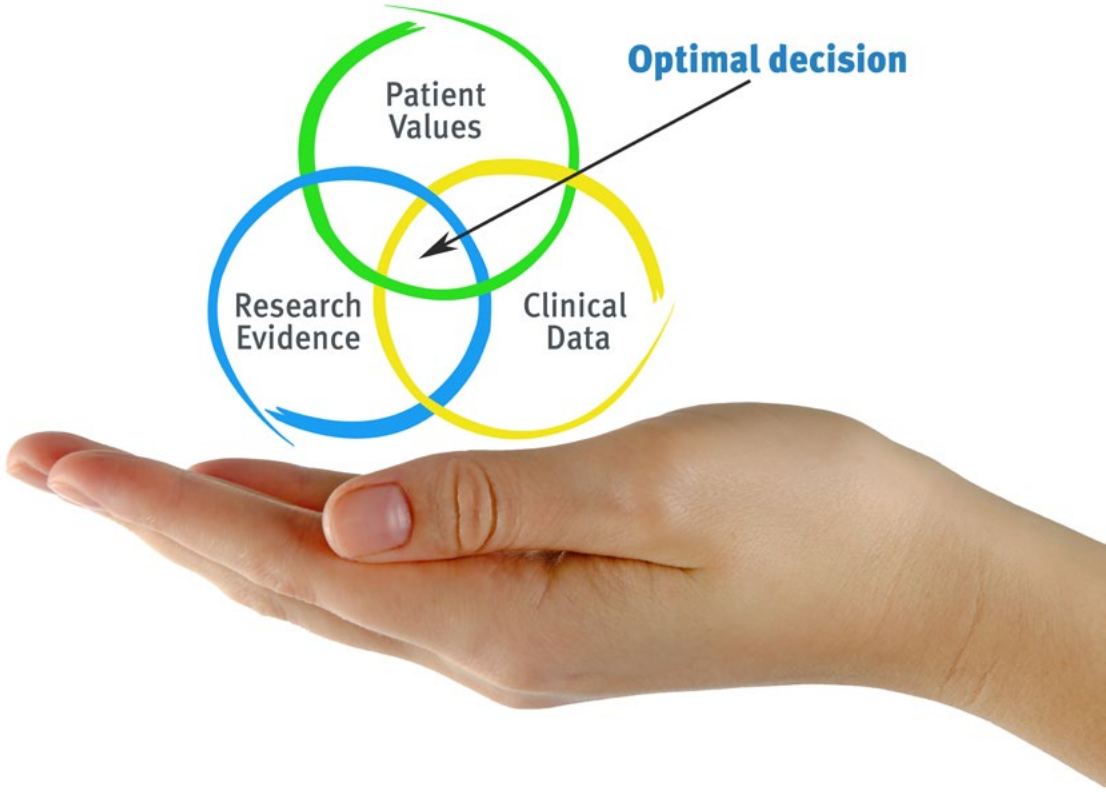


Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH we use the Case Method

What should a professional do in a given situation? 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 an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you will 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, in an attempt to recreate the actual conditions in a 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:

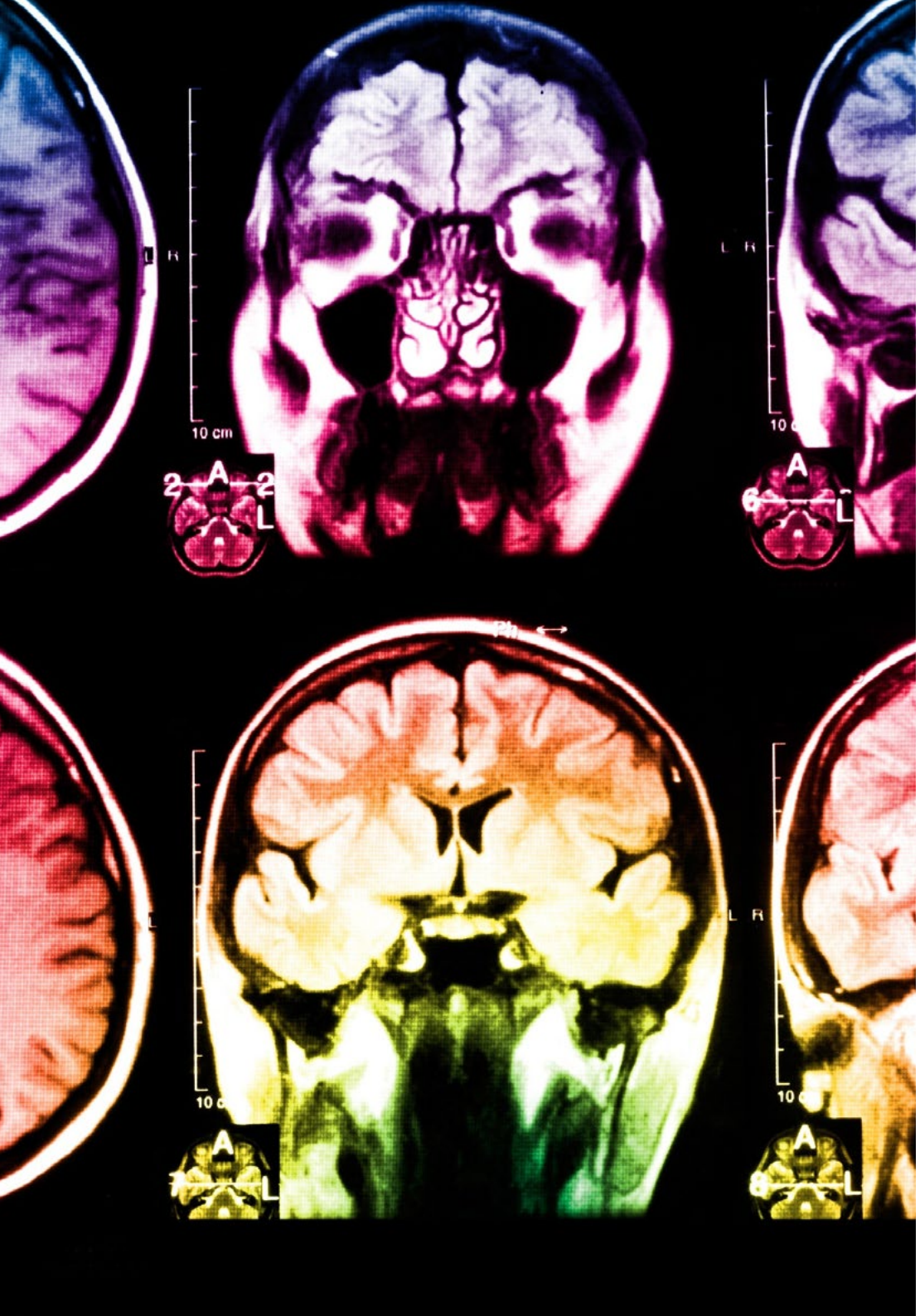
1. Veterinarians who follow this method not only manage to assimilate concepts, but also develop their mental capacity through exercises to evaluate real situations and knowledge application
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real 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.

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.

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.



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 65,000 veterinarians have been trained with unprecedented success in all clinical specialties, regardless of the surgical load. Our teaching method is developed in a highly demanding environment, where the students have a high socio-economic 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.

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.

Latest Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current and procedures of veterinary techniques. 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.

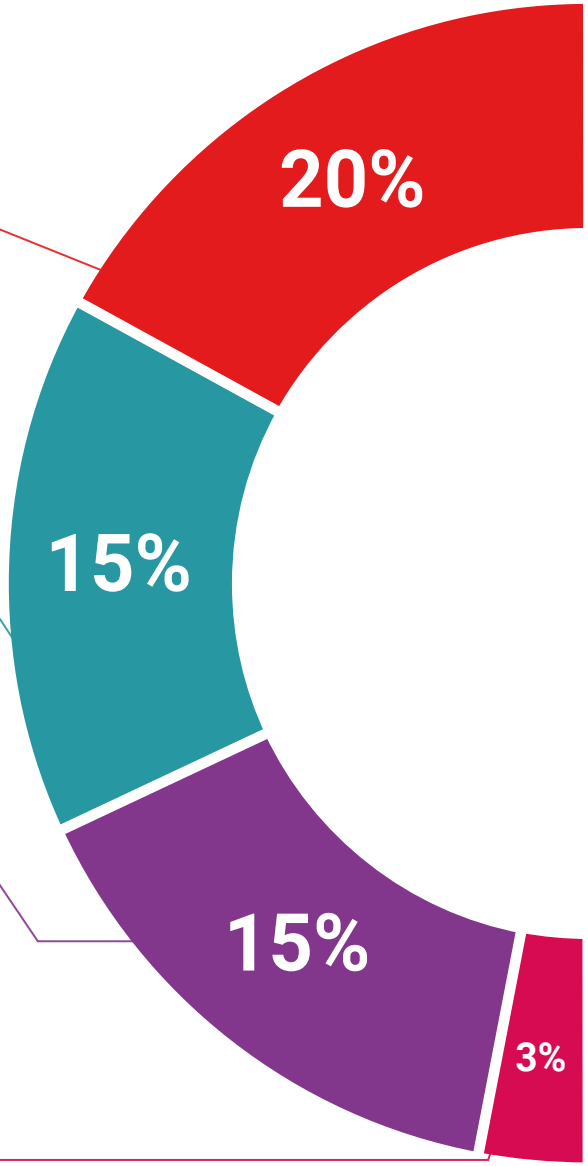
Interactive Summaries

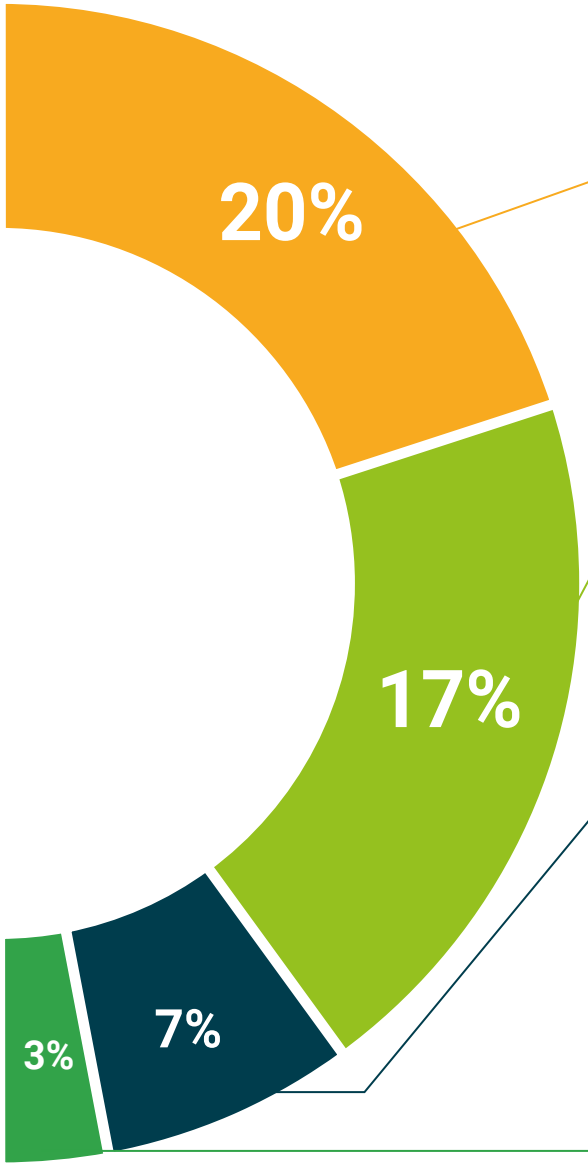
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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.





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.

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.

06

Certificate

The Postgraduate Certificate in Genetic Resource Management in Extensively Farmed Livestock Populations guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.

Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"

This **Postgraduate Certificate in Genetic Resource Management in Extensively Farmed Livestock Populations** 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 though the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Genetic Resource Management in Extensively Farmed Livestock Populations**

Official Nº of Hours: **150 h.**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Awards the following

DIPLOMA

to

Mr./Ms. _____, with identification number _____.

For having passed and accredited the following program

POSTGRADUATE CERTIFICATE

in

Genetic Resource Management in Extensively Farmed Livestock Populations

This is a qualification awarded by this University, equivalent to 150 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
Dean

Unique TECH Code: AFWORD23S techtitute.com/certificates

*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.

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