



Postgraduate Certificate

Basic Radiological Interpretation in Small Animals

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

Exams: online Website: www.techtitute.com/pk/veterinary-medicine/postgraduate-certificate/basic-radiological-interpretation-small-animals

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Certificate





tech 06 | Introduction

The main objective of the course is to achieve a specialization in the veterinarian that avoids any type of error when performing an analysis of diagnostic imaging tests. For this purpose, a high-level teaching team has selected and created the most relevant information in this field.

It should be borne in mind that ionizing radiation is the source of the clinical image recognizable by the technician or specialist. However, there is a minimal portion of them that participate in its formation. Part of these radiations are generated by the inefficiency of the procedure and distort the final image obtained, so it is necessary to work very carefully in this area. On the other hand, there are many different procedures that have evolved over the years to perfect the technique and should be recognized by professionals.

Precisely, distortions in radiological image formation are addressed in depth in this training. For this purpose, the way to make the image obtained have a direct and predictable correlation with the patient's anatomy is presented. It also develops all the necessary information to differentiate the different radiological techniques for the different organs and offers specialized knowledge on the handling of the radiology equipment.

In short, it is a program based on scientific evidence and daily practice, with all the nuances that each professional can contribute, so that the student can keep it in mind and compare it with the bibliography and enriched by the critical evaluation that every professional must have in mind.

Throughout this course, the student will learn about all the current approaches to the different challenges posed by his or her profession. A high-level step that will become a process of improvement, not only on a professional level, but also on a personal level. In addition, TECH assumes a social commitment: to help the updating of highly qualified professionals and to develop their personal, social and labor competencies during the development of the same. And, to do so, it will not only take you through the theoretical knowledge offered, but will show you another way of studying and learning, more organic, simpler and more efficient. It works to maintain motivation and to create a passion for learning; it encourages thinking and the development of critical thinking.

This **Postgraduate Certificate in Basic Radiological Interpretation in Small Animals** contains the most complete and up-to-date educational program on the market. The most important features of the program include:

- The development of case studies presented by experts in Veterinary Radiology
- The graphic, schematic, and eminently practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- Latest developments in Veterinary Radiology
- Practical exercises where self-assessment can be used to improve learning
- · Special emphasis on innovative methodologies in Veterinary Radiology
- 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



We offer you an innovative program in which you will find real case studies that will allow you to carry out a more contextual study"



We offer you the perfect combination of theory and practice so that you have all the necessary resources at your disposal to allow you a deep and exhaustive study of the subject"

Its teaching staff includes professionals belonging to the veterinary field, who contribute their work experience to this training, as well as renowned specialists from reference 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 an immersive training program designed to train in real situations.

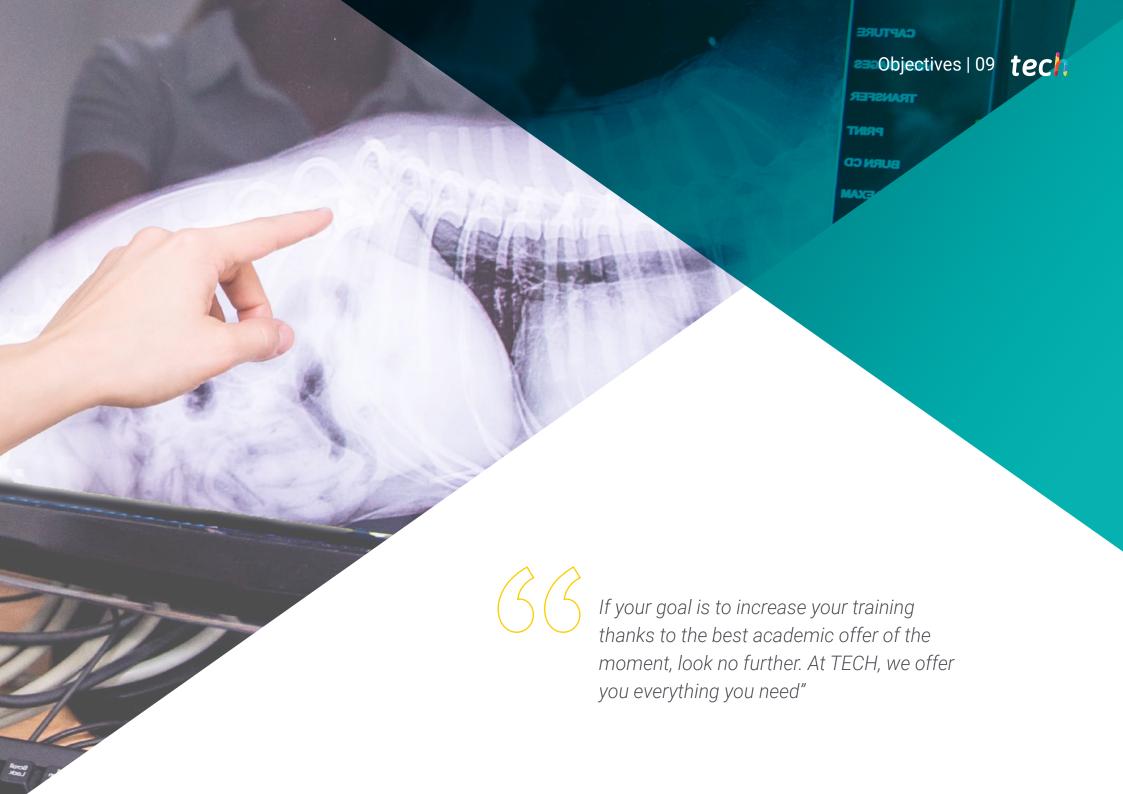
This program is designed around Problem Based Learning, whereby the specialist must try to solve the different professional practice situations that arise during the academic year. For this purpose, the professional will be assisted by an innovative system of interactive videos made by renowned and experienced experts in Veterinary Radiology.

Our multimedia methodology allows our students to perform interactive activities to learn in a more practical way.

We give you the opportunity to organize your study time thanks to the freedom of access to the campus that you will have once you have enrolled.







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General Objectives

- Analyze how the clinical radiological image is formed
- Examine the drawbacks and distortions in the image obtained
- Establish the relationship between the radiological technique and the object to be X-rayed
- Determine the concept of homogeneous reproduction of the technology



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







Specific Objectives

- Analyze the Bremsstrahlung effect
- Interpret the cause of radiological defects and distortions
- Reproduce the systematic interpretation of the radiological image
- Differentiate the different types of radiological image processing
- Examine the concept of radiological distortion, the concept of pareidolia and the concept of limiting factor







tech 14 | Course Management

Management



Dr. Gómez Poveda, Bárbara

- Parque Grande Veterinary Clinic. General veterinary
- Veterinary emergencies Las Rozas, Madrid. Emergency and hospitalization service
- Barvet Veterinary at home Mobile Veterinary Director. Madrid
- Parla Sur Veterinary Hospital. Emergency and hospitalization service
- Veterinary Degree. Complutense University of Madrid
- Postgraduate in Small Animal Surgery (GPCert SAS). Madrid Improve International
- Online postgraduate course in Small Animal Clinic. Autonomous University of Barcelona

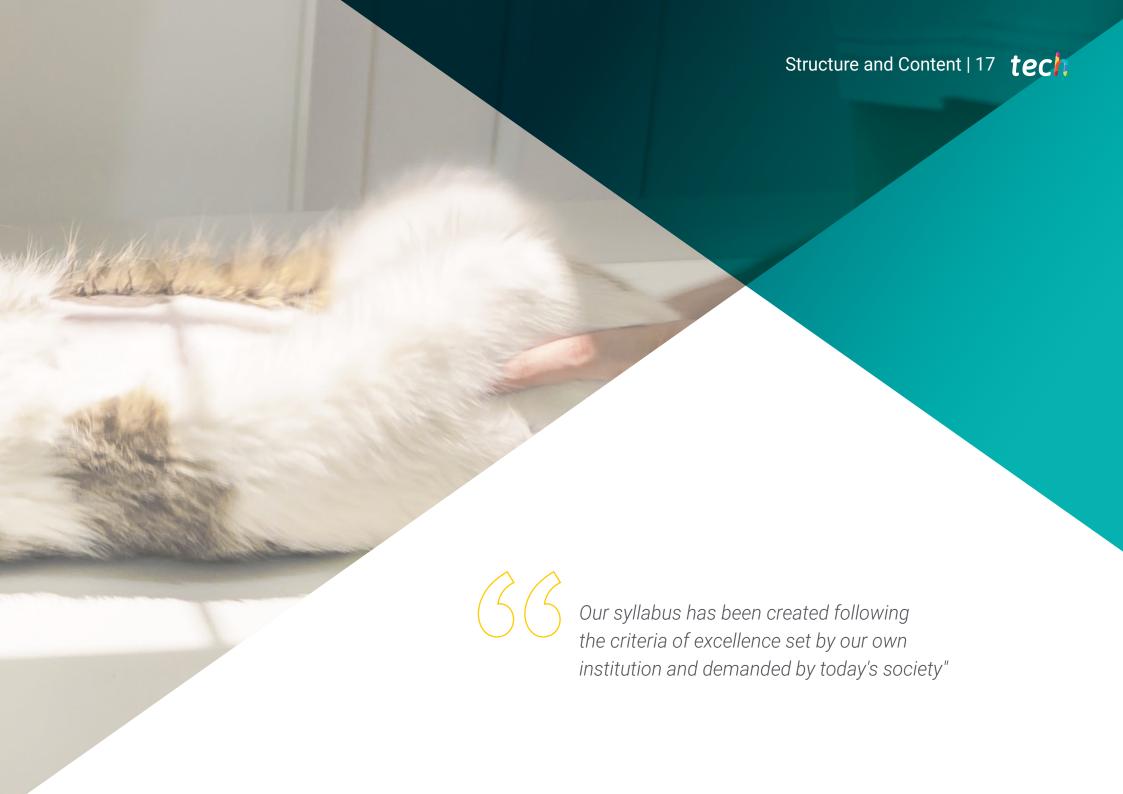
Professors

Dr. Calzado Sánchez, Isabel

- Veterinarian specialized in exotic animals. HV Exotic Animals 24h and HV Gwana Vet.
 General veterinarian in hospitals specializing in exotic animals. Internal medicine, hospitalization, emergency and laboratory services
- Small animal veterinarian. CV Sansepet, HV Miramadrid. General veterinarian in dog and cat clinics. Internal medicine, preventive medicine, diagnostic imaging and in charge of the exotic animal area
- Veterinary Degree. Alfonso X el Sabio University
- General Practitioner in exotic animals. ISVPS Improve International



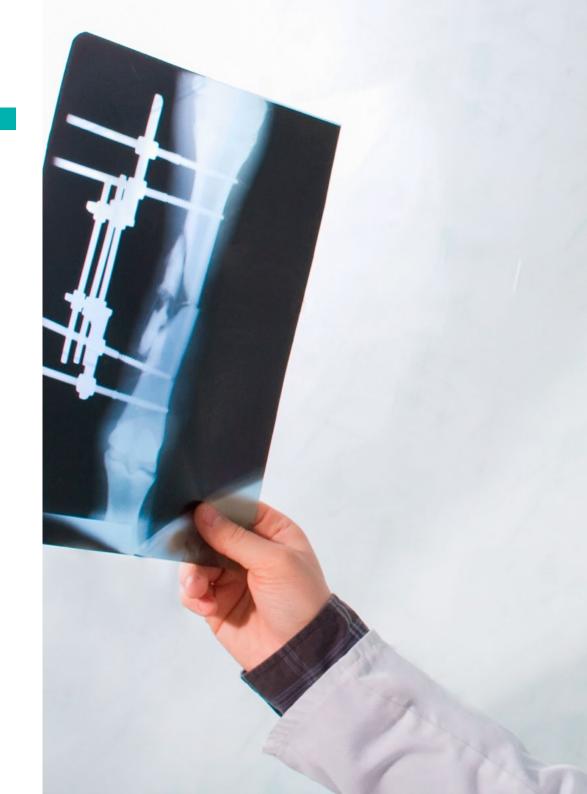


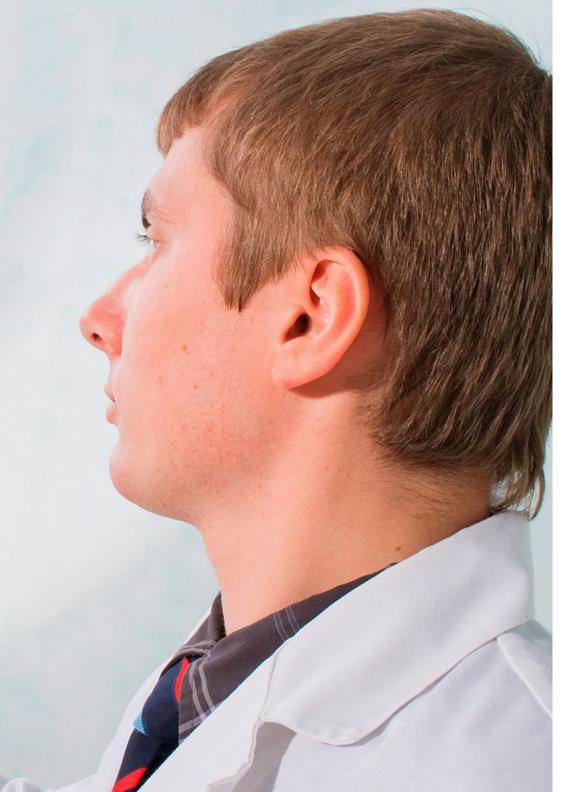


tech 18 | Structure and Content

Module 1. Ionizing Radiation for Diagnostic Purposes

- 1.1. General Principles
 - 1.1.1. Electron Acceleration
 - 1.1.2. Electrical Current Intensity
 - 1.1.3. The Anode, Where the Anions Collide
- 1.2. Photon Formation with Diagnostic Effects
 - 1.2.1. Types of Photons
 - 1.2.2. Photon Energy
 - 1.2.3. Orientation of Emitted Photons
 - 1.2.4. Scattering of the Energy Generated by Photons
- 1.3. Scattered Radiation
 - 1.3.1. Anode Dispersion
 - 1.3.2. Patient Dispersion
 - 1.3.3. Implications for Clinical Imaging
 - 1.3.4. Dispersion of Objects in the Radiodiagnostic Room
- 1.4. The Formation of Radiological Imaging
 - 1.4.1. Radiological Chassis
 - 1.4.2. Radiological Films
 - 1.4.3. RC Processing
 - 1.4.4. DR Processing
- 1.5. Radiological Film Processing
 - 1.5.1. Development in Automatic Processors and Development Vats
 - 1.5.2. Liquid Recycling
 - 1.5.3. Processing with Digital Chassis
 - 1.5.4. Digital Direct Processing
- 1.6. Factors Affecting Radiological Imaging
 - 1.6.1. Time
 - 1.6.2. Voltage
 - 1.6.3. Amperage
- 1.7. Alterations in the Perception of the Radiological Image
 - 1.7.1. Pareidolia
 - 1.7.2. Magnification
 - 1.7.3. Distortion





Structure and Content | 19 tech

- 1.8. Radiological Interpretation
 - 1.8.1. Systematization of Interpretation
 - 1.8.2. Validity of the Image Obtained
 - 1.8.3. Differences between Tissues
 - 1.8.4. Identification of Healthy Organs
 - 1.8.5. Identification of Radiological Alterations
 - 1.8.6. Typical Diseases of the Different Anatomical Regions
- 1.9. Limiting Factors in Radiological Diagnosis, Time
 - 1.9.1. Regions in Motion
 - 1.9.2. Still Regions
 - 1.9.3. Fuzziness
 - 1.9.4. Anesthesia in Radiology
 - 1.9.5. Radiological Positioners
 - 1.9.6. Anatomical Regions in Which Time Has To Be Taken into Consideration
- 1.10. Limiting Factors in Radiological Diagnosis, Voltage
 - 1.10.1. Density of the Radiographic Region
 - 1.10.2. Contrast
 - 1.10.3. Sharpness
 - 1.10.3. Anatomical Regions in Which the Energy of Photons Must Be taken into Consideration



Give a boost to your career thanks to the opportunity offered by TECH with this high academic level Postgraduate Certificate"



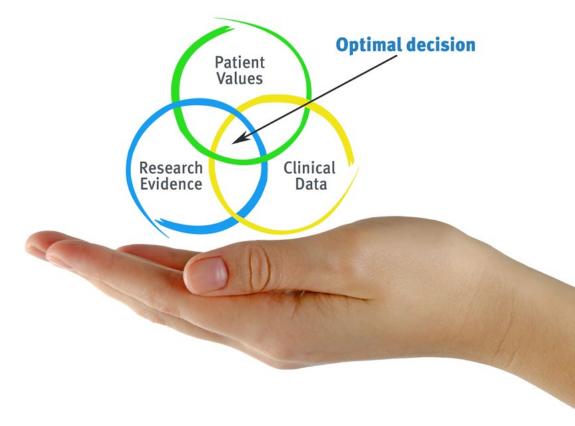


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At TECH we use the Case Method

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 Harvard 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.



Methodology | 25 tech

At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology more than 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.

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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

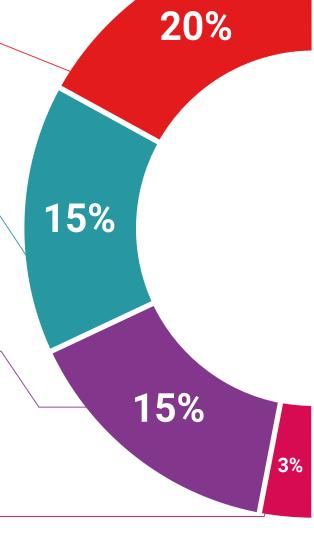
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current and procedures of veterinary techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch 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.

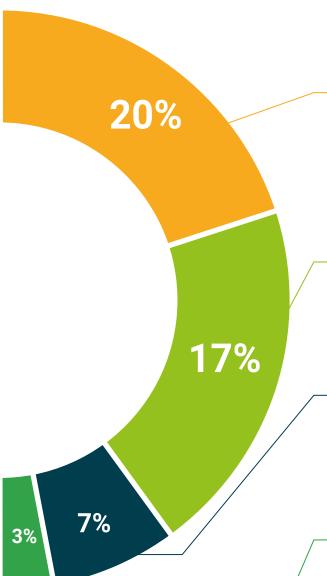
This exclusive multimedia content presentation training Exclusive system was awarded by Microsoft as a "European Success Story".





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 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 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.





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This **Postgraduate Certificate in Basic Radiological Interpretation in Small Animals** 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 **certificate** issued by **TECH Technological University** via tracked delivery*.

The diploma issued by **TECH Technological University** will specify 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 Basic Radiological Interpretation in Small Animals
Official N° of Hours: 150 h.



POSTGRADUATE CERTIFICATE

in

Basic Radiological Interpretation in Small Animals

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

ralification must always be accompanied by the university degree issued by the com-

Jnique TECH Code: AFWORD23S techtitute.com/certifica

^{*}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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education information tutors
guarantee accreditation teaching
institutions technology learning



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