Postgraduate Certificate

Forensic Maxillofacial Radiology

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Postgraduate Certificate

Forensic Maxillofacial Radiology

- Modality: **online**
- Duration: **6 weeks**
- Certificate: **TECH Global University**
- Accreditation: **6 ECTS**
- Schedule: **at your own pace**
- Exams: **online**

Website: **www.techtitute.com/us/nursing/postgraduate-certificate/forensic-maxillofacial-radiology**

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01

Introduction

Forensic Radiology uses the most advanced technologies to process images of the human body and analyze them in detail to clarify the truth of an event. In this sense, it is vital for nurses to have notions about the structure of the maxillofacial region, as well as to be familiar with the different imaging techniques. In this way, they will be able to optimize their daily praxis to prepare individuals for radiological procedures, ensuring their safety and correct positioning for imaging. Therefore, these images will stand out for their high quality and accuracy. In view of this, TECH develops this university program that will focus on forensic radiological interpretation in the head and neck. In addition, it is taught in a convenient 100% online mode.

Through this program, supported in Relearning, you will acquire advanced communication skills to document radiological findings in the most rigorous and clear way"

The arrival of Industry 4.0 to the field of Forensic Maxillofacial Radiology is completely revolutionizing it, by providing professionals with sophisticated imaging tools that contribute to examine anatomical accidents. An example of this is Magnetic Resonance Imaging, a noninvasive tool that uses magnetic fields and radio waves to generate detailed images of soft tissues, bones and body structures. This instrument is also very useful for identifying a variety of pathologies, including tumors, inflammation and degenerative diseases. Given its multiple benefits, it is important that nursing personnel remain at the forefront of technological advances in this field of specialization.

To support them in this task, TECH implements a complete program in Forensic Maxillofacial Radiology. The academic itinerary will deepen in the different anatomical and dental structures of the maxillofacial massif, to facilitate its recognition. Likewise, the syllabus will cover in depth the keys to properly interpret radiological images derived from equipment such as Computerized Axial Tomography. Likewise, the academic materials will provide the graduates with different radiographic techniques depending on the areas of the face they wish to analyze. Throughout the updating process, nurses will obtain advanced skills to provide quality assistance during radiological procedures.

In terms of methodology, this university program is taught completely online, providing professionals with the flexibility to adapt to their schedules. In addition, the Relearning system, based on the repetition of key concepts to fix the knowledge, will facilitate an effective and rigorous update. This combination of accessibility and innovative pedagogical approach will ensure that participants acquire practical skills to excel in the field of Forensic Maxillofacial Radiology. The only requirement is that graduates have an electronic device with an Internet connection, in order to immerse themselves in the Virtual Campus and enjoy the most dynamic educational resources on the market.

This **Postgraduate Certificate in Forensic Maxillofacial Radiology** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of practical cases presented by experts in Forensic Radiology
- The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable for professional practice
- Practical exercises where self-assessment can be used to improve learning
- Its special emphasis on innovative methodologies
- 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

A cutting-edge syllabus that will progressively advance your career from the comfort of your own home”

You will delve into the innovative technique of Ocular Radiographs, which allow you to identify dental remains in cases of disasters or accidents"

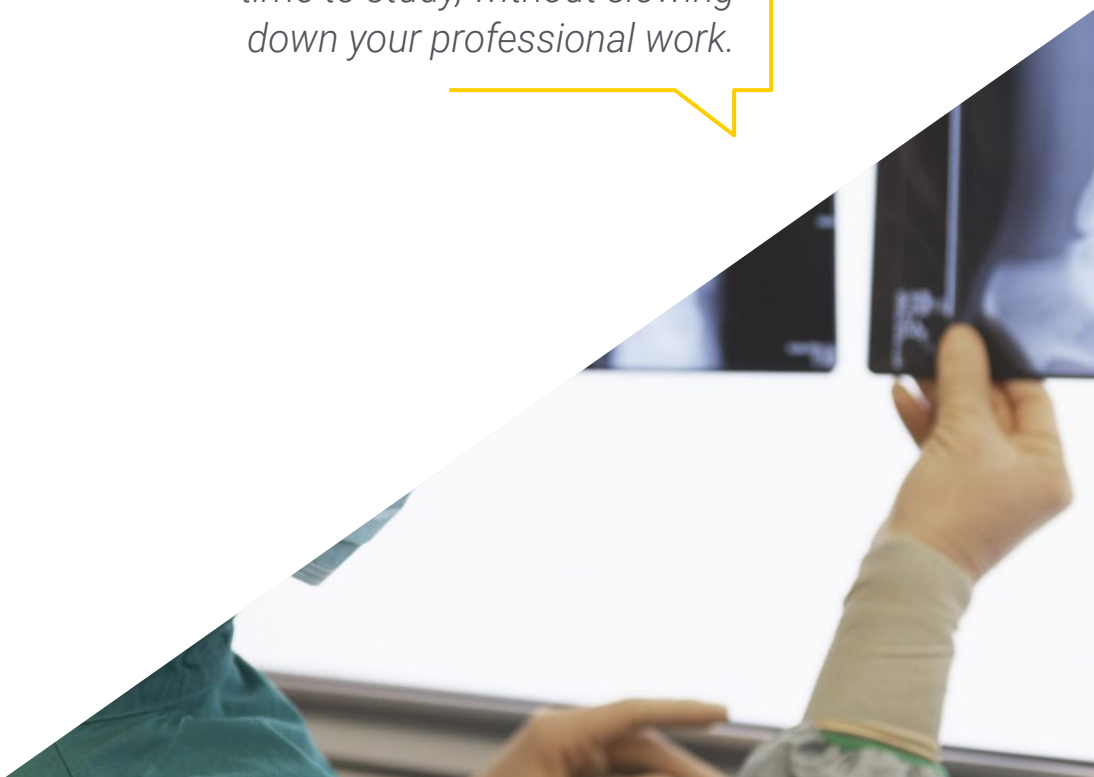
You will delve into the importance of sutures in trauma involving skin and soft tissue wounds.

TECH's online methodology will allow you to choose the place and time to study, without slowing down your professional work.

The program's teaching staff includes professionals from the sector who contribute their work experience to this specializing program, as well as renowned 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 education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the course. For this purpose, students will be assisted by an innovative interactive video system created by renowned and experienced experts.



02

Objectives

This university program will equip nurses with a solid understanding of the anatomy of maxillofacial structures. In this line, they will enhance their technical skills to mobilize human bodies and position them properly for radiological procedures. In this way, professionals will ensure that the images obtained are characterized by both high resolution and accuracy. They will also gain communication skills to record radiological findings, ensuring the integrity and confidentiality of the information at all times.

You will understand the role of Forensic Radiology in the identification of victims in cases of assault or accidents and collaborate with other professionals in the collection of evidence"

General Objectives

- Identify and recognize the different anatomical and dental structures of the maxillofacial massif
- Analyze the different radiographic techniques, as well as their uses
- Examine each type of radiography for its correct choice depending on each case
- Define the different anatomical features of relevance to the identification of the individual

Specific Objectives

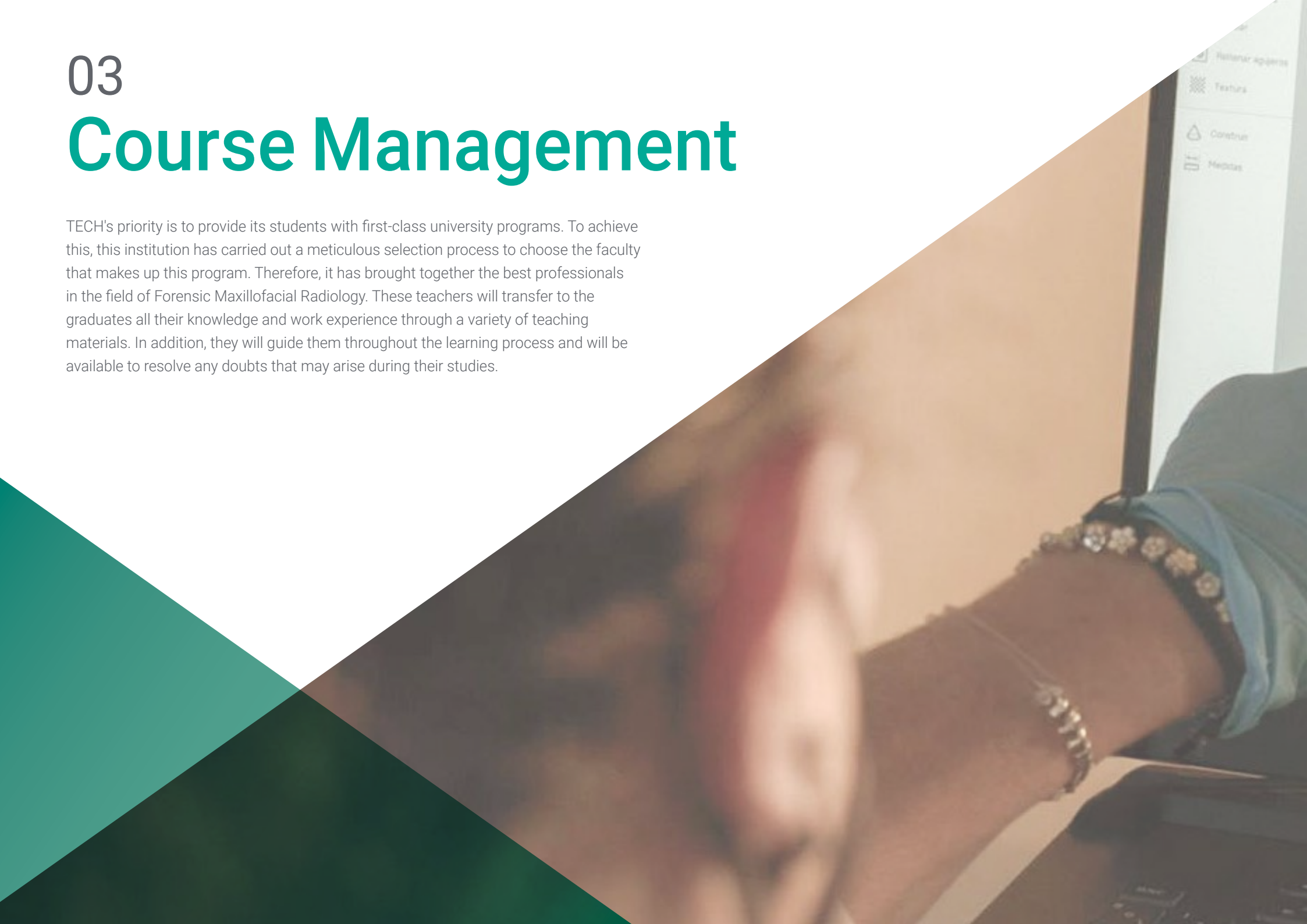
- Evaluate the different anatomical and dental structures through imaging
- Recognize the structures already analyzed in the previous topic through imaging
- Support the importance of radiodiagnostic techniques in the analysis of the individual's lesion
- Provide support to other disciplines to characterize the injuries of the individual

You will update your knowledge of Orthopantomography through innovative multimedia content, including resources such as interactive summaries and specialized readings"

03

Course Management

TECH's priority is to provide its students with first-class university programs. To achieve this, this institution has carried out a meticulous selection process to choose the faculty that makes up this program. Therefore, it has brought together the best professionals in the field of Forensic Maxillofacial Radiology. These teachers will transfer to the graduates all their knowledge and work experience through a variety of teaching materials. In addition, they will guide them throughout the learning process and will be available to resolve any doubts that may arise during their studies.

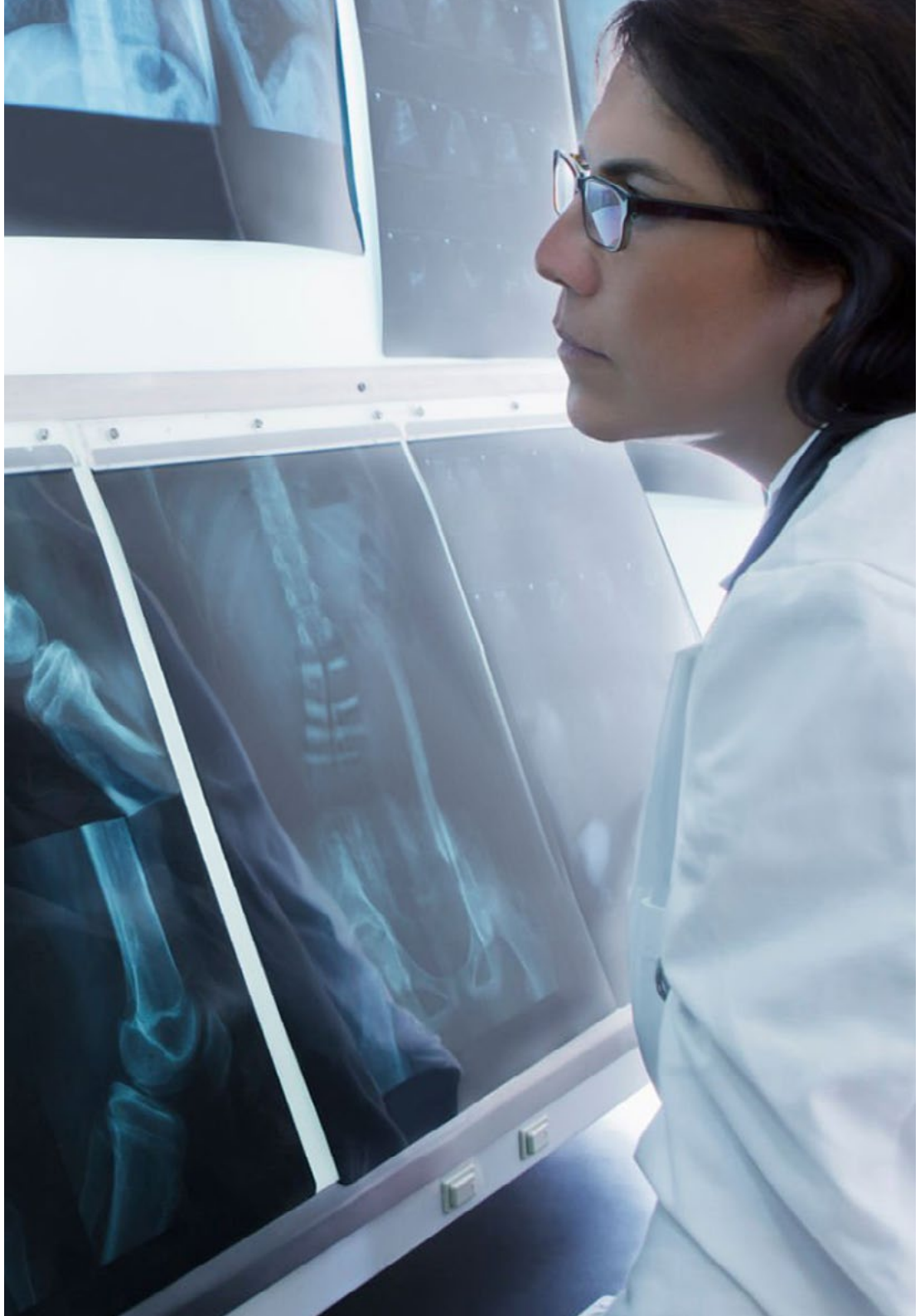


Get updated in Forensic Maxillofacial Radiology from the best experts in the field. Boost your professional career with TECH!"

Management

Dr. Ortega Ruiz, Ricardo

- PhD in Biomedical Engineering from the Polytechnic University of Madrid, specializing in Diagnostic Imaging
- Director of the Laboratory of Archaeology and Forensic Anthropology of the Institute of Professional Training in Forensic Sciences
- Investigator of Crimes against Humanity and War Crimes in Europe and the Americas
- Judicial Expert in Human Identification
- International Observer in Drug Trafficking Crimes in Iberoamerica
- Collaborator in police investigations for the search of missing persons in foot or canine tracking with Civil Protection
- Instructor of adaptation courses in Basic Scale to Executive Scale aimed at the Scientific Police
- Master's Degree in Forensic Sciences applied to the Search for Missing Persons and Human Identification Cranfield University
- Master's Degree in Archeology and Heritage with the Specialty of Forensic Archeology for the Search of Missing Persons in Armed Conflict



Professors

Dr. Delgado García-Carrasco, Diana Victoria

- General Dentist in Primary Care Management at the Hospital de la Defensa Gómez Ulla in Madrid
- Permanent staff of the Dentistry Service of the Gomez Ulla Central Defense Hospital, Defense Hospital
- General Dentist in Primary Care Management of the Community of Madrid
- Forensic expert specialized in Dentistry by the College of Dentists and Stomatologists of the First Region
- Forensic Odontologist at the Forensic Anatomical Institute
- Master's Degree in Dental Sciences from the Complutense University of Madrid
- Official Master's Degree in Forensic Sciences with specialization in Criminalistics and Forensic Anthropology from the Autonomous University of Madrid
- Degree in Dentistry from the Alfonso X El Sabio University
- University Expert in Forensic Dentistry and Forensic Expert in Forensic Dentistry

Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"

04

Structure and Content

Through this university program, graduates will develop a comprehensive knowledge of the various anatomical structures belonging to the maxillofacial massif through X-rays. For this purpose, the syllabus will delve into the operation of radiological tools such as Computerized Axial Tomography or Magnetic Resonance Imaging. Likewise, the syllabus will delve into anatomical and dental structures. Thanks to this, nurses will optimize their regular assistance to mobilize bodies and ensure that accurate images are obtained for the correct interpretation of trauma. Professionals will also enhance their communication skills to document radiological findings accurately and clearly.

A syllabus developed by specialists and teaching materials of the highest standard are the key to a successful career"

Module 1. Forensic Maxillofacial Radiology

1.1. Forensic Radiological Interpretation of Head and Neck: Skull Bones
- 1.1.1. Forensic Radiological Interpretation of the External Paired Bones: Temporal and Parietal
- 1.1.2. Forensic Radiological Interpretation of the External Odd Bones: Frontal, Occipital
- 1.1.3. Forensic Radiological Interpretation of the Internal Odd Bones: Ethmoid and Sphenoid

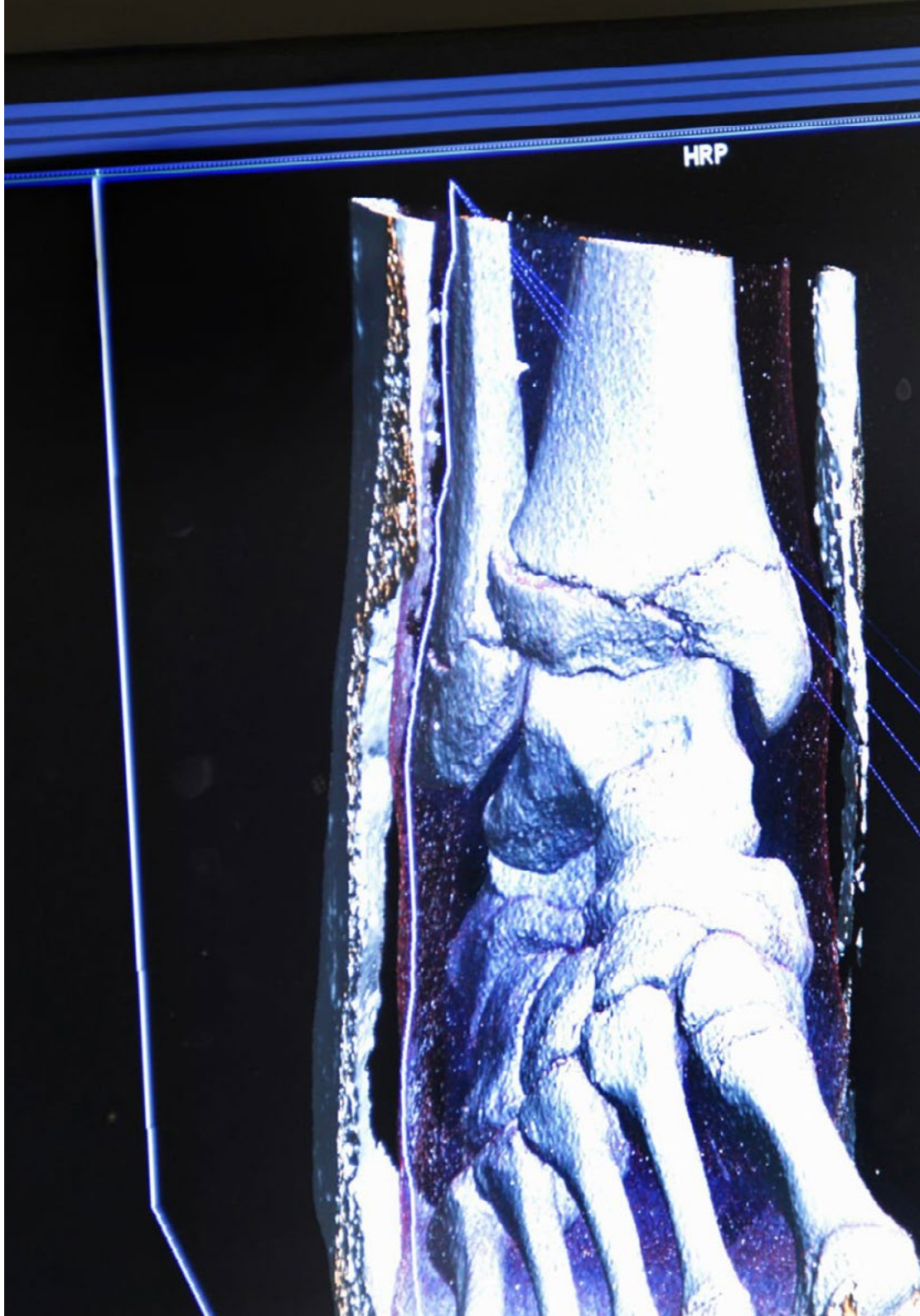
1.2. Forensic Radiological Interpretation of Head and Neck: Bones of the Face
- 1.2.1. Forensic Radiological Interpretation of the Vomer
- 1.2.2. Forensic Radiologic Interpretation of the Inferior Turbinate
- 1.2.3. Forensic radiological Interpretation of the Zygomatic or Malar Bone.
- 1.2.4. Forensic Radiological Interpretation of the Nasal Lachrymal Bone

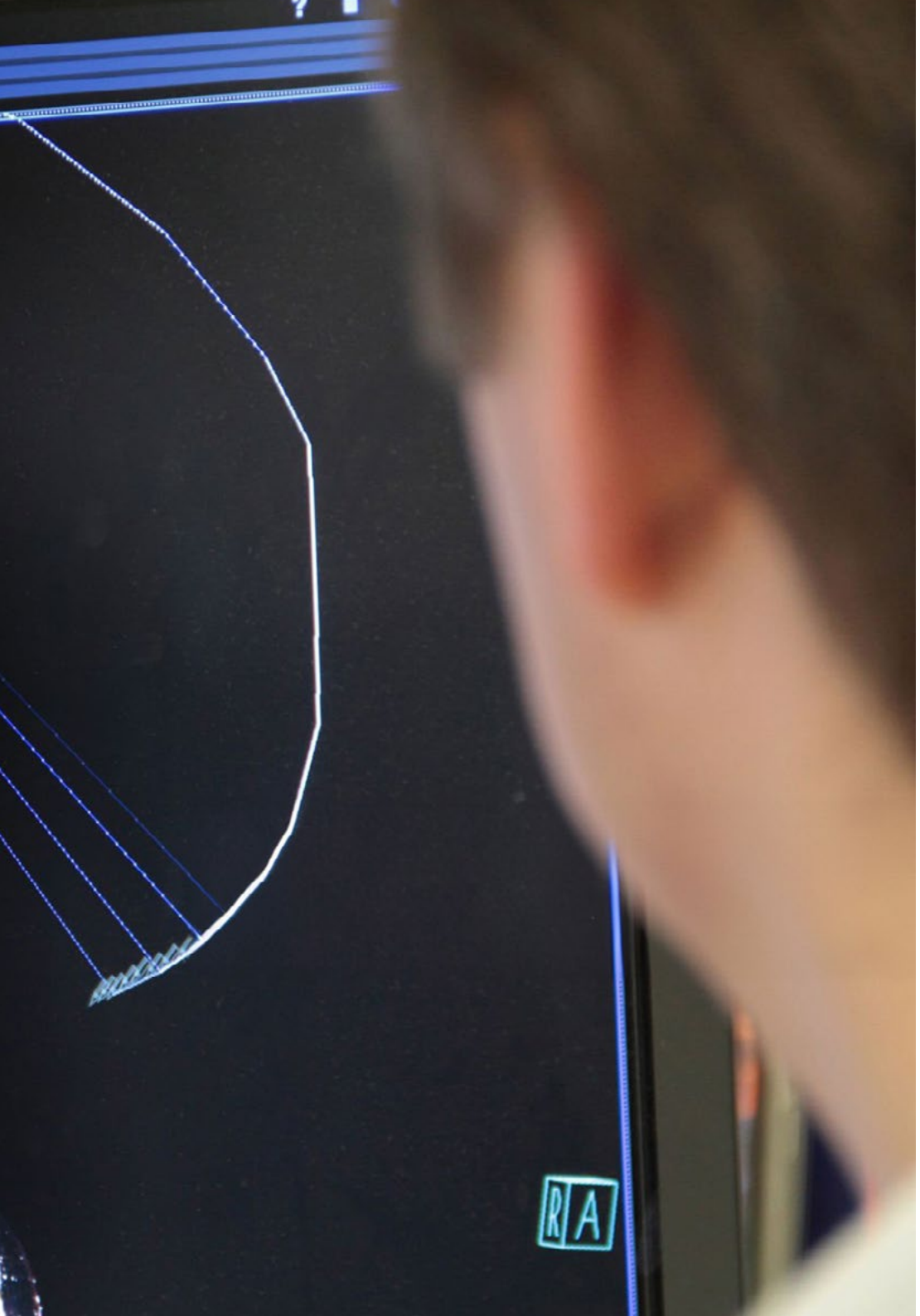
1.3. Forensic Radiological Interpretation of Head and Neck: Oral Cavity Bones
- 1.3.1. Forensic Radiological Interpretation of the Upper Jaw.
- 1.3.2. Forensic Radiological Interpretation of the Lower Maxilla or Mandible
- 1.3.3. Forensic Radiological Interpretation of the Dental Parts

1.4. Radiological Interpretation of Head and Neck (II): Sutures
- 1.4.1. Cranial Sutures
- 1.4.2. Facial Sutures
- 1.4.3. Importance of the Sutures in Traumatic Injuries

1.5. Forensic Radiological Interpretation of Head and Neck: Facial Buttresses Sutures.
- 1.5.1. Forensic Radiological Interpretation of the Horizontal Buttresses
- 1.5.2. Forensic Radiological Interpretation of Vertical Buttresses
- 1.5.3. Abnormalities

1.6. Forensic Radiography of the Head and Neck: Extraoral Radiographs
- 1.6.1. Lateral Radiographs
- 1.6.2. Fronto-Occipital Radiographs
- 1.6.3. Occipito-Frontal Radiographs
- 1.6.4. Orthopantomography





1.7. Forensic Radiography of Head and Neck Anatomical Accidents: Intraoral Radiographs
- 1.7.1. Occlusal Radiographs
- 1.7.2. Periapical Radiographs
- 1.7.3. Bitewing Radiographs
- 1.7.4. Relevant Elements Observed in Intraoral Radiographs

1.8. Forensic Radiographic Interpretation of Head and Neck Anatomical Features: Extraoral Radiography
- 1.8.1. Lateral Radiography
- 1.8.2. Fronto-Occipital Radiography
- 1.8.3. Occipito-Frontal Radiography
- 1.8.4. Orthopantomography

1.9. Forensic Radiographic Interpretation of Head and Neck Anatomical Features: Intraoral Radiography
- 1.9.1. Occlusal Radiography
- 1.9.2. Periapical Radiography
- 1.9.3. Bitewing Radiograph

1.10. Forensic Radiographic Interpretation of Head and Neck Anatomical Features: Other Radiographic Techniques
- 1.10.1. Computerized Axial Tomography
- 1.10.2. CBCT
- 1.10.3. MRI

An intensive academic itinerary that you can access 24 hours a day, 7 days a week. Enroll now!"

05

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.**

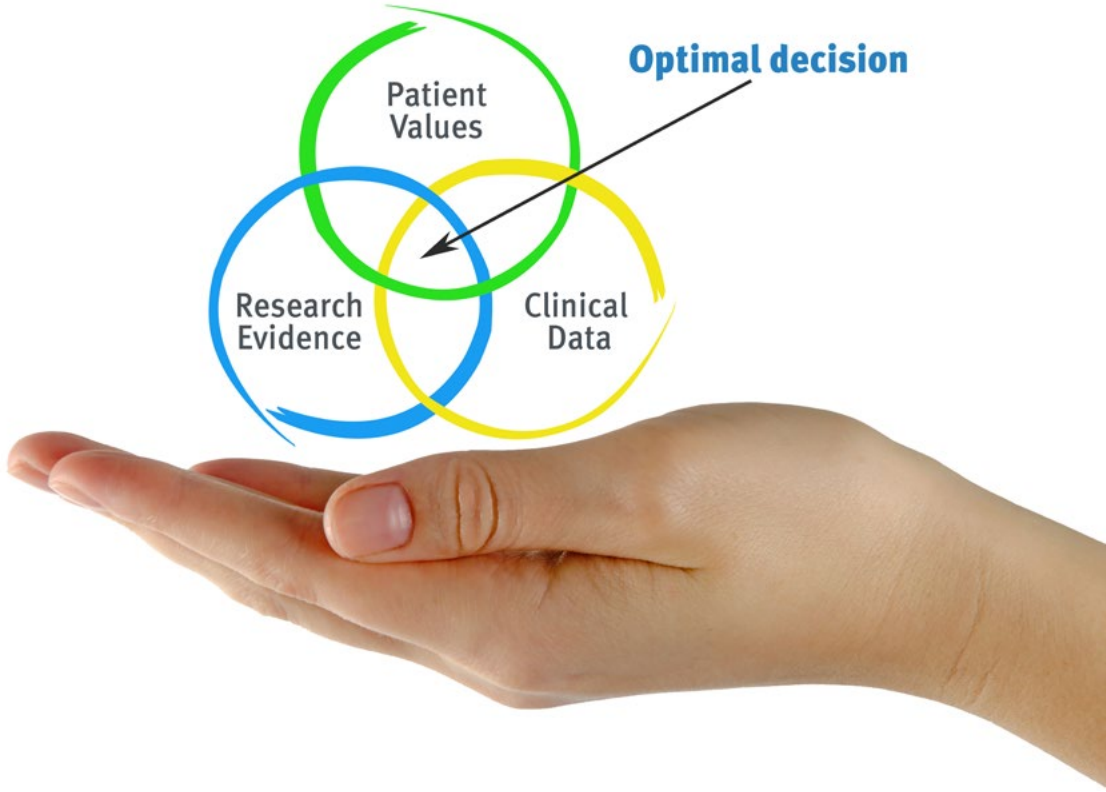
This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.

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 Nursing School we use the Case Method

In a given situation, what should a professional do? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Nurses learn better, faster, and more sustainably over time.

With TECH, nurses can experience a learning methodology 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 real conditions in professional nursing 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:

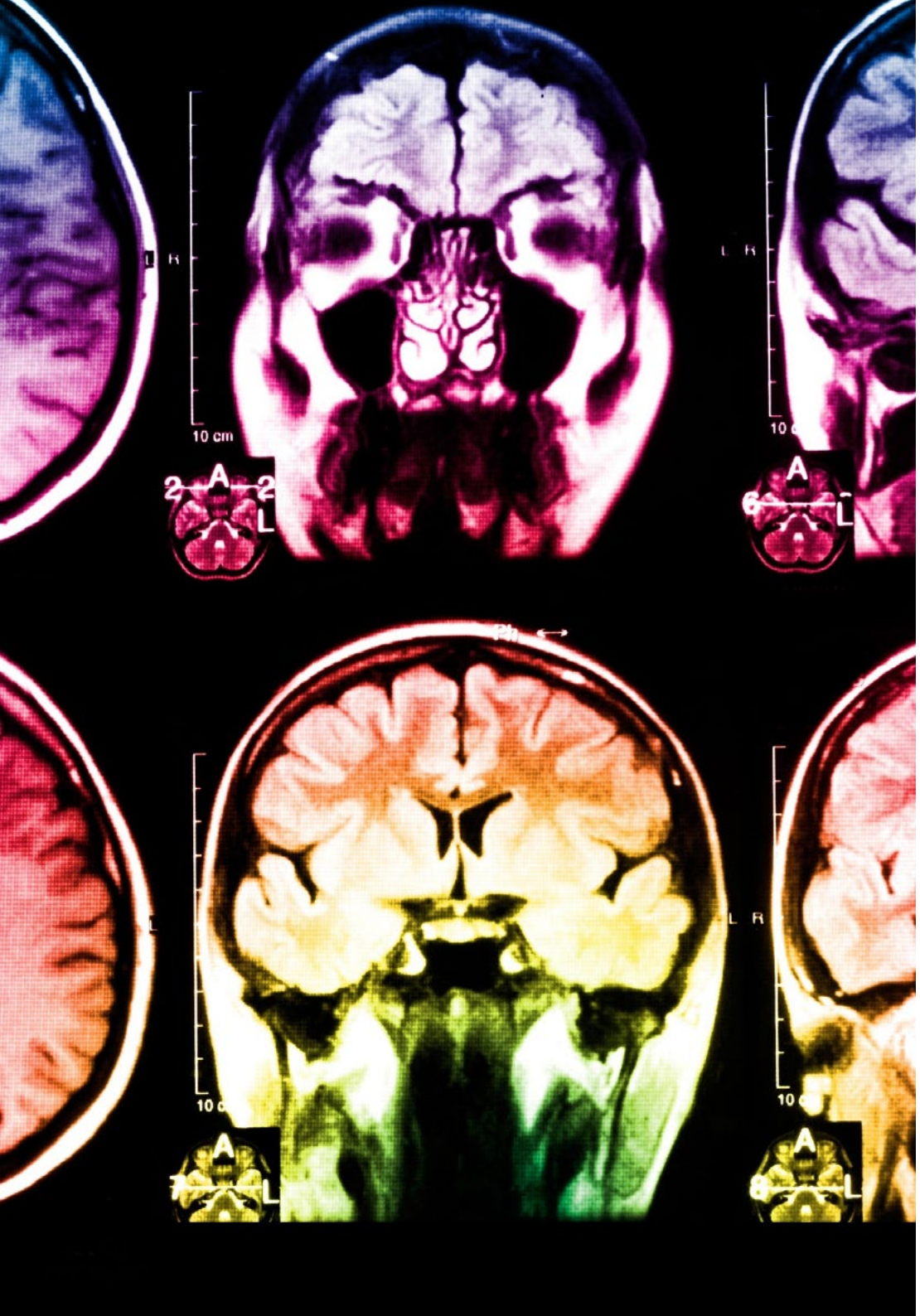
1. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
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.

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 case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.

The nurse 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 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 we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

Relearning 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 (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 really specific and precise.

These contents are then adapted in 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.

Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical 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 them as many times as you want.

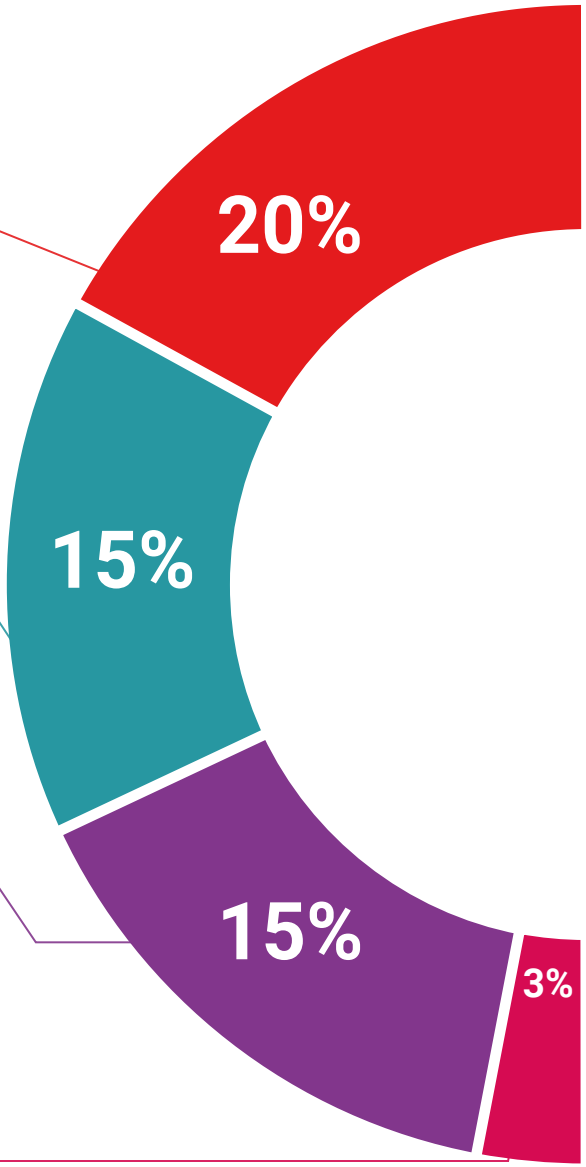
Interactive Summaries

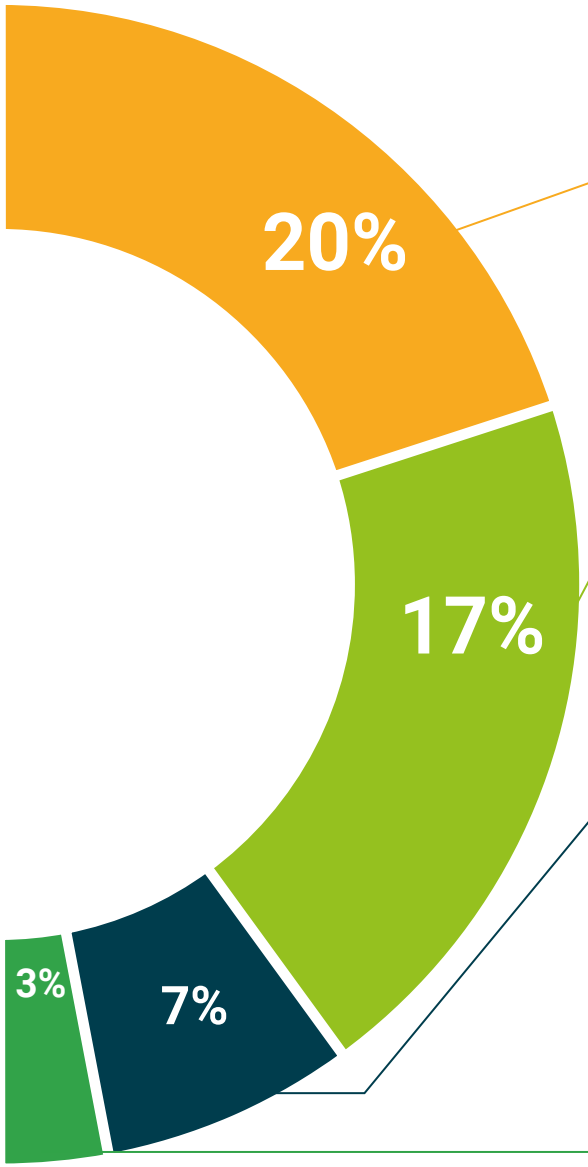
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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

The student's knowledge is periodically assessed and re-assessed throughout the program, through evaluative and self-evaluative activities and exercises: in this way, students can check how they are doing in terms of 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 Forensic Maxillofacial Radiology guarantees, in addition to the most accurate and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.

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

This private qualification will allow you to obtain a **Postgraduate Certificate in Forensic Maxillofacial Radiology** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra (***official bulletin***). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Forensic Maxillofacial Radiology**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**


tech global university

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

Postgraduate Certificate in Forensic Maxillofacial Radiology

This is a private qualification of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. 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 Global University will make the necessary arrangements to obtain it, at an additional cost.

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Postgraduate Certificate

Forensic Maxillofacial Radiology

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