

Postgraduate Certificate

Forefoot Surgery Pathologies of the First Radius





Postgraduate Certificate Forefoot Surgery Pathologies of the First Radius

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

Website: www.techitute.com/us/medicine/postgraduate-certificate/forefoot-surgery-pathologies-first-radius

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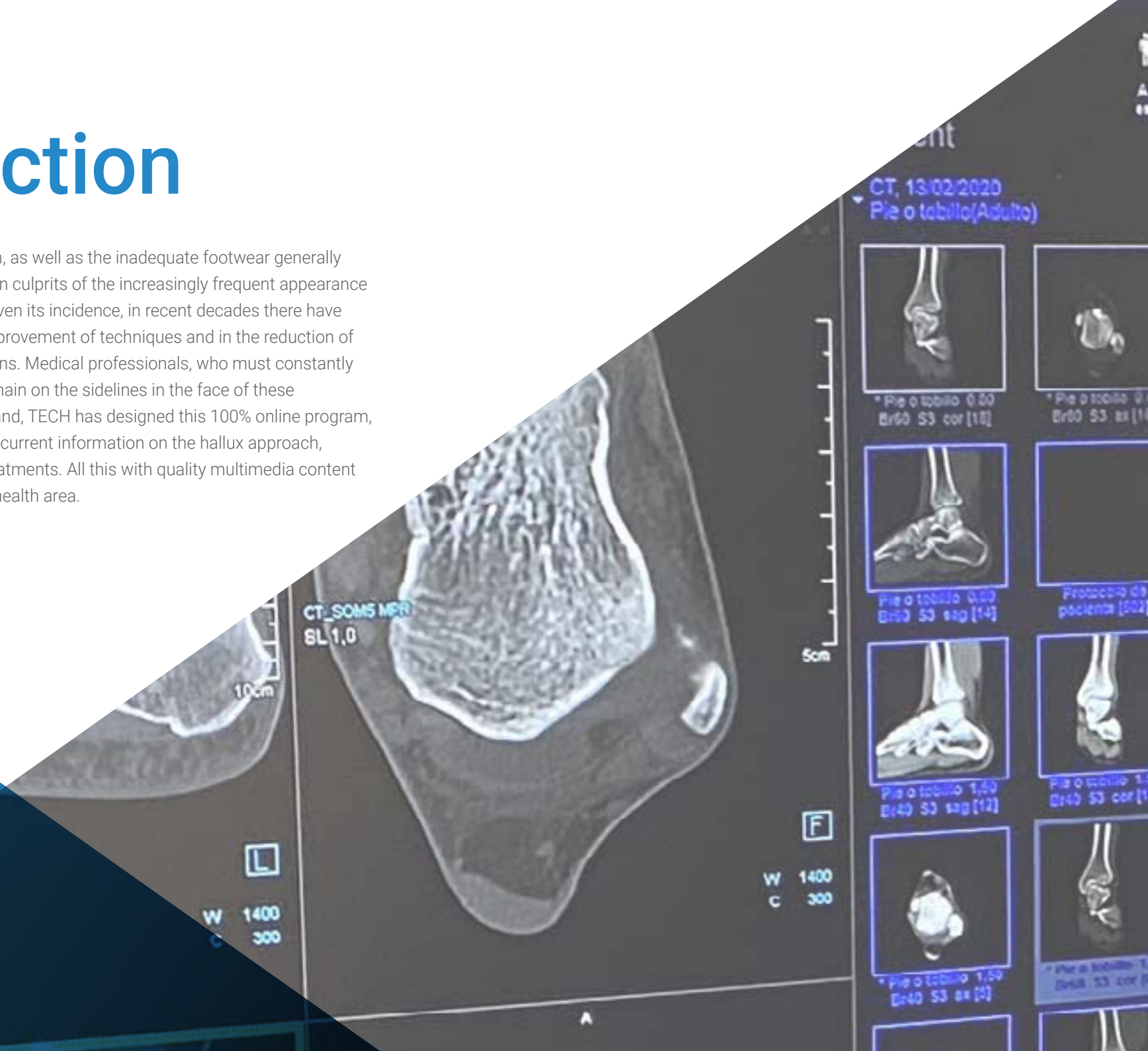
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01

Introduction

Undoubtedly, genetic predisposition, as well as the inadequate footwear generally worn by the population, are the main culprits of the increasingly frequent appearance of pathologies in the first radius. Given its incidence, in recent decades there have been important advances in the improvement of techniques and in the reduction of recoveries after surgical interventions. Medical professionals, who must constantly update their knowledge, cannot remain on the sidelines in the face of these advances. In response to this demand, TECH has designed this 100% online program, which offers the most relevant and current information on the hallux approach, contraindications and the latest treatments. All this with quality multimedia content prepared ad hoc by experts in this health area.





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A high level Postgraduate Certificate to update your knowledge in relation to Forefoot Surgery and the most frequent pathologies of the first radius"

One of the most frequent pathologies treated in orthopedic and traumatology medical offices is hallux, especially hallux valgus. Unsuitable footwear, increasingly used in the western world, has increased the number of patients with these problems. However, technical advances have allowed surgical correction through different techniques used depending on the severity of the case.

This boom has led to an improvement both in diagnosis and in the choice of the most appropriate treatment. Therefore, new technologies have facilitated this optimization of results, while forcing medical professionals to be aware of them, to provide the best care and comprehensive approach to the patient. That is why TECH has launched this university program taught exclusively online, which offers a complete update in just 6 weeks.

For this purpose, this academic institution has a teaching team made up of specialists in Traumatology and Orthopedics, who provide the most advanced and exhaustive information through a theoretical-practical syllabus. Therefore, the professional will be able to deepen in the hallux valgus deformity or bunion, the hallux rigidus problem or arthropathy of the first metatarsophalangeal joint, the hallux varus deformity and the problems of the sesamoid system or complex.

The multimedia resources will also facilitate the specialist's update on the four forefoot pathologies, the forms of evaluation and the most appropriate treatments. In addition, the Relearningsystem will allow them to reduce the long hours of study and memorization.

A 100% online Postgraduate Certificate that can be accessed comfortably by the health care professional, whenever and wherever they wish. All they need is an electronic device with an Internet connection to view the syllabus hosted on the Virtual Campus. This program is, therefore, an excellent opportunity for physicians seeking to keep abreast of advances in Forefoot Surgery through a program that offers flexibility and quality.

This **Postgraduate Certificate in Forefoot Surgery: Pathologies of the First Radius** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Practical cases presented by experts in medicine
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ The practical exercises where the self-evaluation process can be carried out 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



You will get up to date through innovative multimedia resources that you can access 24 hours a day, from any electronic device with an Internet connection"

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The specialized teaching team provides you with clinical case studies to keep you up to date with the most effective techniques and methodologies currently in use”

The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will allow the professional a situated and contextual learning, that is, a simulated environment that will provide an immersive training programmed to train in real situations.

The design of this program focuses on problem-based learning, through which the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned experts.

A program that will allow you to enhance your skills in the choice of complementary tests and possible studies prior to surgical treatments.

This program is at the academic forefront and therefore offers you the flexibility you need as a medical professional.



02 Objectives

The updating of knowledge is a constant in the medical area, so this is the first objective of this Postgraduate Certificate, which will also allow the professional to enhance their skills in the comprehensive management of the patient. Therefore, at the end of the 150 teaching hours, students will have broadened their skills in the approach to lesions in the first radius of the forefoot, in the different diagnostic techniques and previous studies, as well as in the most appropriate choice of treatment. The clinical cases, provided by the teaching team, will allow a more practical approach to the achievement of these goals.



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*You will be able to update your knowledge
in the treatment of hallux problems"*



General Objectives

- ♦ Approach, in a comprehensive manner, the pathology that affects the first radius of the forefoot
- ♦ Assess the physical examination and the aspects to take into account in the problems of the first radius
- ♦ Determine the best complementary tests and possible pre-treatment testing
- ♦ Develop treatment algorithms and description of current surgical techniques to solve the problems of the pathology of the first radius





Specific Objectives

- ♦ Develop the anatomical and pathophysiological principles of the problems affecting the first radius of the forefoot
- ♦ Know how to assess the different complementary tests for the evaluation and staging of the pathologies of the first radius
- ♦ Determine the ideal conservative or surgical treatment options and know how to establish a therapeutic algorithm
- ♦ Examine the best and specific surgical techniques for each problem affecting the first radius and evaluate the pros and cons of each surgical option
- ♦ Analyze the most frequent complications and how to avoid them



TECH provides you with the most innovative pedagogical tools so that you can successfully achieve your objectives"

03

Course Management

In its maxim of offering quality education within everyone's reach, TECH carefully selects the professionals who make up the management and teaching staff of each of its programs. Therefore, the professional who enters this Postgraduate Certificate has an expert teaching staff in Orthopedic Surgery and Traumatology. Their excellent professional background is a guarantee for the specialist, who seeks in just 6 weeks to obtain a complete update of their knowledge in the area of Forefoot Surgery. Additionally, thanks to its proximity, they will be able to resolve any questions that arise about the agenda during the course of this program.





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An excellent team of specialized professionals will be responsible for bringing you the most recent and innovative information in forefoot surgery"

International Guest Director

Awarded by the American Orthopedic Foot and Ankle Society for his innovative clinical treatments, Dr. John Kwon is a renowned surgeon highly specialized in the approach to traumatic injuries of the lower limbs. In this line, he has carried out his work in health institutions of international reference, including the Massachusetts General Hospital or the Mercy Medical Center in Baltimore.

In this way, he has contributed to the optimal recovery of numerous patients suffering from pathologies such as complex fractures in the tibioperoneoastotalar joint, cartilage disorders and even ligament ruptures due to sports accidents. It should be noted that he is an expert in the application of external fixation techniques, which has allowed him to offer users comprehensive and personalized treatments to optimize their quality of life significantly.

On the other hand, he has balanced this work with his facet as a researcher. In this regard, he has published scientific articles in specialized medical journals on subjects such as the most sophisticated surgical procedures for the correction of deformities such as bunions, therapeutic methods for the management of bone infections or application of ultrasound processes to guide a wide range of interventions ranging from plantar fasciitis to retrocalcaneal bursitis.

In his unwavering commitment to medical excellence, he participates as a speaker at multiple conferences on a global scale. As such, he shares with the global medical community both his findings and his extensive work experience. This has led to significant advances in the healthcare field, greatly increasing practitioners' knowledge of cutting-edge therapies to effectively treat foot and ankle problems. Thanks to this, professionals have improved their care for users, while at the same time optimizing their results considerably.



Dr. Kwon, John

- Head of the Foot and Ankle Service at Massachusetts General Hospital, United States
- Orthopedic Foot and Ankle Surgeon at Mercy Medical Center of Baltimore
- Chief Clinical Officer at Israel Deaconess Medical Center of Boston
- Combined Orthopedic Residency at Massachusetts General Hospital, Brigham Hospital and Boston Children's Hospital
- Internship in Internal Medicine at McGaw Medical Center of Northwestern University
- B.S. in Medical Sciences from New York Medical College
- B.S. in Biology from Wesleyan University

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Thanks to TECH, you will be able to learn with the best professionals in the world”

Management



Dr. Pacheco Gutiérrez, Victor Alexander

- ♦ Surgeon Specialist in Orthopedics and Sports Medicine at the Dr. Sulaiman Al Habib Hospital in Dubai
- ♦ Medical advisor for baseball, boxing and cycling teams
- ♦ Specialty in Orthopedics and Traumatology
- ♦ Degree in Medicine
- ♦ Sports Medicine Fellowship in Sportsmed
- ♦ Member of the American Academy of Orthopedic Surgeons



Professors

Dr. Ballester Alomar, Manel

- ◆ Head of Orthopedic Surgery and Traumatology at Hospital Mataró, Barcelona
- ◆ Coordinator of the Traumatology Group of Creu Blanca Clinic
- ◆ Head of the Pathology, Foot and Ankle Surgery and Sports Traumatology Unit at Creu Blanca Clinic
- ◆ Responsible and Coordinator of the Emergency Department of Creu Blanca Clinic
- ◆ Medical Coordinator of the surgical area of Creu Blanca Clinic
- ◆ Degree in Medicine and Surgery from the Autonomous University of Barcelona
- ◆ Specialist in Orthopedic Surgery and Traumatology at the Mataró Hospital
- ◆ Fellowship in the Department of Foot and Ankle Surgery at the Balgrist Klinik University Hospital in Zurich, Switzerland
- ◆ Fellowship at the Institute for Foot and Ankle Reconstruction at Mercy, en Baltimore, United States

04

Structure and Content

The curriculum of this university program has been designed to offer through innovative teaching resources, the most comprehensive and advanced content in the field of forefoot surgery, with special emphasis on the pathologies of the first radius. Additionally, the syllabus is complemented by a library of quality didactic material (video summaries, detailed videos), essential readings or case studies, with access available 24 hours a day, 7 days a week.



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A theoretical-practical approach that will provide you with an update on hallux diagnosis and the different treatment options"

Module 1. Forefoot: Pathologies of the First Radius

- 1.1. Anatomy
 - 1.1.1. Topographic Anatomy
 - 1.1.2. Osteoarticular and Ligament Anatomy
 - 1.1.3. Basic Biomechanics of the First Radius
- 1.2. Diagnostic Imaging
 - 1.2.1. Radiographic Anatomy
 - 1.2.2. Value of CT in the Pathologies of the First Radius
 - 1.2.3. Benefits of Magnetic Resonance in the Pathologies of the First Radius
- 1.3. Treatment Update
 - 1.3.1. Associated Problems in the First Radius
 - 1.3.2. Differentiating Hallux Valgus, Hallux Varus, Hallux Rigidus
 - 1.3.3. Problems Associated with the Sesamoid Complex
 - 1.3.4. Treatment Update on Hallux Valgus, Hallux Varus, Hallux Rigidus, and Sesamoid Complex Problems
 - 1.3.5. Current Controversies
- 1.4. Indications
 - 1.4.1. Assessment of Hallux Valgus
 - 1.4.2. Assessment of Hallux Rigidus
 - 1.4.3. Assessment of Hallux Varus
 - 1.4.4. Assessment of Sesamoid Problems
 - 1.4.5. Treatment Update on Hallux Problems
 - 1.4.6. Controversies
- 1.5. Contraindications
 - 1.5.1. Absolute Contra-indications
 - 1.5.2. Relative Contra-indications
 - 1.5.3. Multidisciplinary Control
- 1.6. Preoperative Planning.
 - 1.6.1. Patient Optimization
 - 1.6.2. Preoperative Measures to Improve Results
 - 1.6.3. Multidisciplinary Management



- 1.7. Boarding Routes
 - 1.7.1. Medial Approach for First Radius Pathology
 - 1.7.2. Dorsal Approach for First Radius Pathology
 - 1.7.3. Minimally Invasive Approach to First Radius Problems
- 1.8. Surgical Technique
 - 1.8.1. Surgical Techniques for the Treatment of Hallux Valgus
 - 1.8.2. Surgical Techniques for the Treatment of Hallux Rigidus
 - 1.8.3. Surgical Techniques for the Treatment of Hallux Varus
 - 1.8.4. Surgical Techniques for the Treatment of Problems of the Sesamoid Complex
- 1.9. Complications
 - 1.9.1. Most Common Problems in the Treatment of Hallux Valgus and Hallux Varus
 - 1.9.2. Most Common Problems in the Treatment of Hallux Rigidus
 - 1.9.3. Most Common Problems in the Treatment of Sesamoid Problems
 - 1.9.4. Surgical Rescue Techniques for First Radius Problems
 - 1.9.5. Post-Surgical Infections and Treatment Options
 - 1.9.6. Other Complications
- 1.10. Post-Operative Care
 - 1.10.1. Post-Operative Guidelines for First Radius Surgery
 - 1.10.2. Controls and Follow-Up after First Radius Surgery
 - 1.10.3. Follow-up Discharge



A program designed to offer the latest news on the approach to the most frequent complications in pathologies of the first radius"

05 Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



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TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

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*At TECH you will NOT have live classes
(which you might not be able to attend)”*



The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

“*TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want*”

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.



A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

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

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
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. 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.

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.



As such, the best educational materials, thoroughly prepared, will be available in this program:



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.

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.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



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.

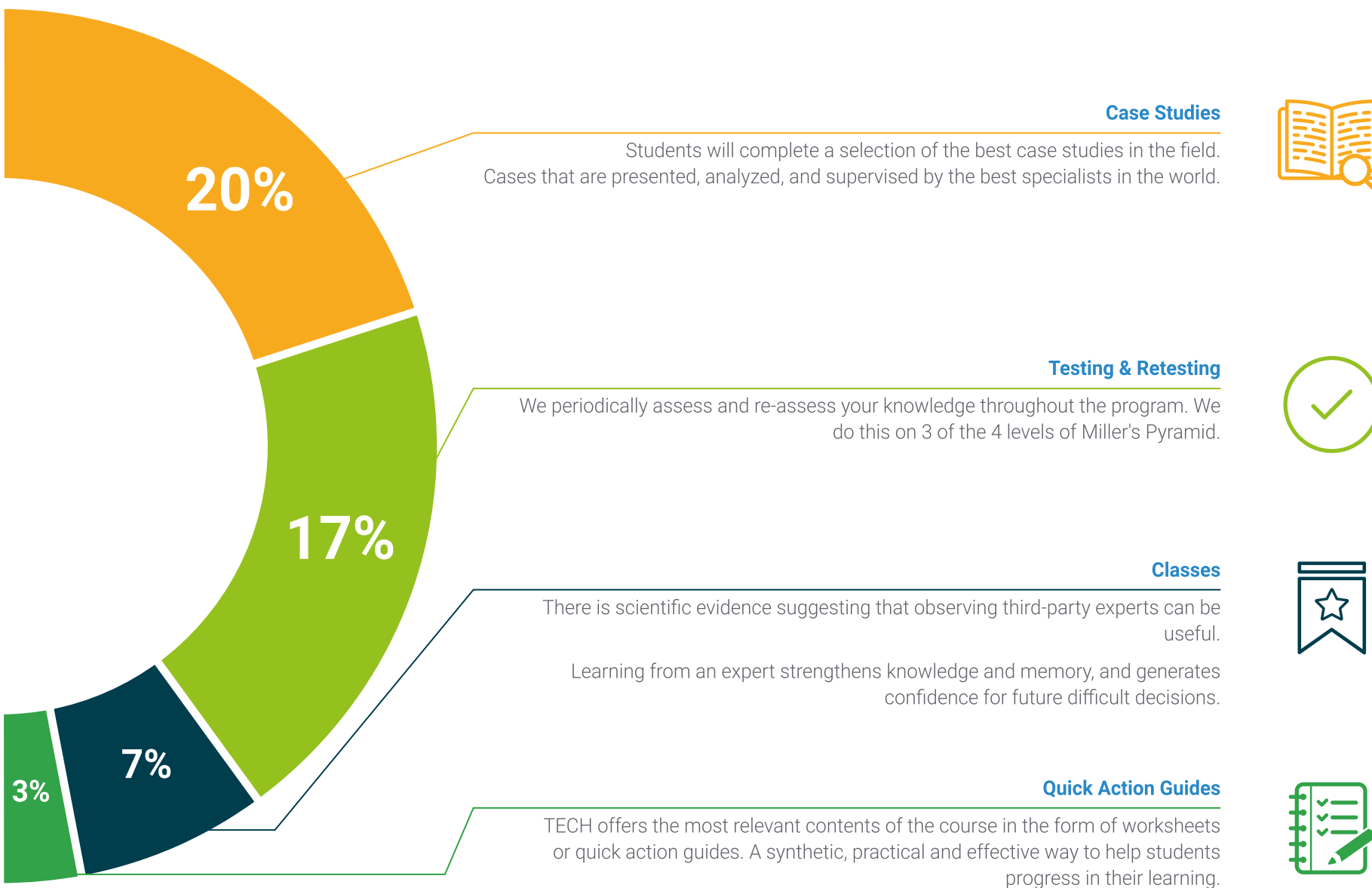
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





06 Certificate

The Postgraduate Certificate in Forefoot Surgery Pathologies of the First Radius guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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*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 Forefoot Surgery Pathologies of the First Radius** 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.

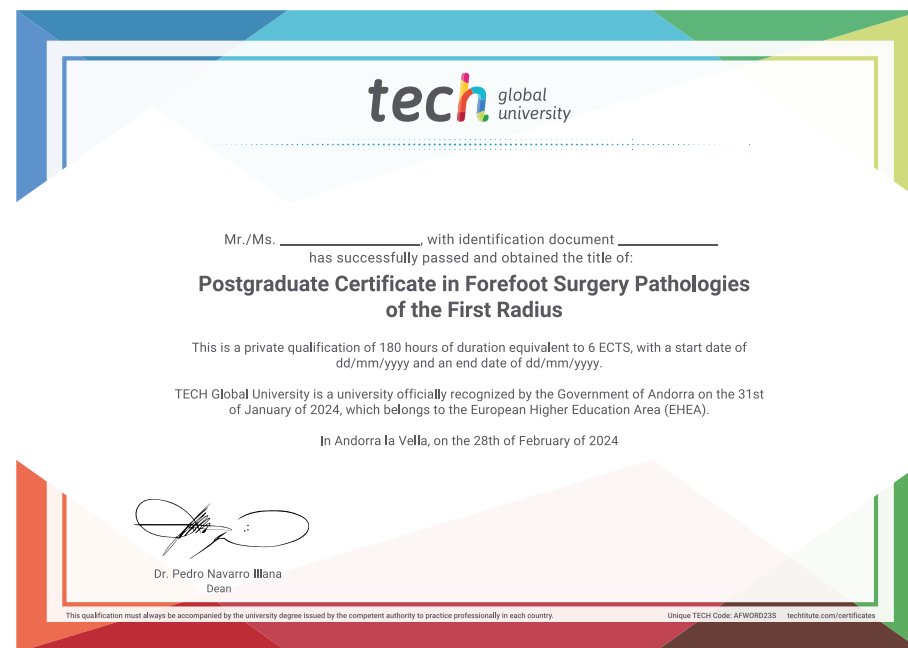
This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Forefoot Surgery Pathologies of the First Radius**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





Postgraduate Certificate
Forefoot Surgery Pathologies
of the First Radius

- » Modality: online
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- » Certificate: TECH Global University
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Postgraduate Certificate

Forefoot Surgery Pathologies of the First Radius

