



Postgraduate Diploma Knee, Ankle and Foot Orthopedic Surgery and Traumatology

» Modality: online

» Duration: 6 months

» Certificate: TECH Global University

» Credits: 20 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-knee-ankle-foot-orthopedic-surgery-traumatology

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Certificate





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Orthopedic surgery and traumatology is constantly evolving. The volume of information increases exponentially every year and it is impossible to be updated in all areas of the specialty, unless a team of experts in different sub-areas performs this work for the specialist, making an intelligent discrimination of the information. In addition, the current tendency to subspecialize in one anatomical region or surgical technique, makes it more difficult to keep up to date in those areas that are not routinely treated.

Advances in molecular biology, biomaterials, cell culture, diagnostic imaging techniques and minimally invasive endoscopic access have been integrated opening new expectations in the management of patients with medical-surgical pathologies of the knee, ankle and foot. The prognosis after surgery improves along with shorter recovery times and a lower rate of post-surgical infection, making these new approaches an opportunity, once unthinkable, for patients.

This Postgraduate Diploma in Orthopedic Surgery and Traumatology of the Knee, Ankle and Foot offers a detailed review of the most relevant advances in the discipline from an eminently practical point of view, providing the necessary update to the specialist to be able to provide quality care to their patients.

The Postgraduate Diploma in Knee, Ankle and Foot Orthopedic Surgery and Traumatology contains the most complete and updated scientific program on the market. The most important features of the program include:

- Development of clinical cases presented by experts in trauma surgery. The graphic, schematic, and eminently practical contents with which they are created contain information that is indispensable for professional practice.
- It contains exercises where the self-assessment process can be carried out to improve learning.
- Interactive learning system based on algorithms for decision making in the surgical patient with osteoarticular pathology of the knee, ankle and foot.
- * Clinical practice guidelines on the different musculoskeletal pathologies.
- All of this will be complemented by 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.





This Postgraduate Diploma may be the best investment you can make in the selection of an updated program for two reasons: in addition to updating your knowledge in Knee, Ankle and Foor Orthopedic Surgery and Traumatology you will obtain a Postgraduate Diploma from TECH Global University"

Its teaching staff includes specialists of recognized prestige in trauma surgery, who bring their experience to this training.

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 to train in real situations.

This program is designed around Problem Based Learning, whereby the physician must try to solve the different professional practice situations that arise during the course. For this purpose, the physician will be assisted by an innovative interactive video system developed by renowned experts in the field of trauma surgery with extensive teaching experience.

Increase your decision-making confidence by updating your knowledge with this Postgraduate Diploma course

Do not miss this opportunity and choose the best way to stay updated in orthopedic and trauma surgery of the knee, ankle and foot



tech 10 | Objectives



General Objective

 Update the physician on the most important surgical procedures in orthopedic and trauma surgery, as well as to incorporate advances in the approach to oncological and infectious processes of the knee, ankle and foot, in order to provide care based on quality and safety, which will minimize the complications and improve the patient's prognosis.



Specific Objectives

- Determine the main advances in orthopedic surgery and traumatology of the knee, ankle and foot, based on the latest scientific evidence.
- Recognize and distinguish the signs and symptoms of the different knee pathologies in order to apply the appropriate treatment in each case.
- Apply the criteria of EvidenceBased Medicine when choosing the correct treatment in orthopedic surgery and traumatology.
- Deepen in the analysis of pathological signs to differentiate foot and ankle pathologies, and to indicate the appropriate treatment.
- Define the ethical main aspects of orthopedic surgery and traumatology.
- Update knowledge in antibiotic prophylaxis in orthopedic surgery and traumatology.
- Correctly apply out the new thromboprophylaxis guidelines in orthopedic surgery and traumatologic.
- Update knowledge of blood-saving policies used in orthopedic and traumatologic surgery.
- Distinguish the different applications of cell cultures in Orthopedics and Traumatology.

- * Explain in which cases it is correct to use BMPs in Orthopedics and Traumatology.
- Interpret the clinical evidence on platelet-rich plasma in tendon and joint pathology.
- Recognize the biopsychosocial model in musculoskeletal pathology.
- Classify and update performance measurement systems in Orthopedic Surgery and Traumatology.
- Interpret the results correctly in Interventional Radiology in musculoskeletal pathology.
- * Recognize the current concepts of Neurophysiology in Orthopedic Surgery.
- Review the meniscal suture technique.
- Revise the techniques and indications in a meniscal transplant.
- Analyze actions to be taken in case of degenerative meniscal tears.
- Review the current evidence on surgical treatment.
- Review the current evidence on conservational treatment.
- Evaluate anterior knee pain syndrome.
- Assess proximal and distal stabilization techniques in patellar instability.
- Medial patellofemoral ligament plasty in patellar instability.
- Establish criteria to monitor complications and failures of patellar stabilization techniques.
- Recognize indications and action guidelines for extensor apparatus rupture and reconstruction techniques.
- Evaluate extensor device transplantation procedure.
- * Review high and low patella reconstructive techniques.
- Review primary knee prosthesis technique.
- Analyze the MIS approach in knee arthroplasty.
- Understand new designs in the total prosthesis of the knee.

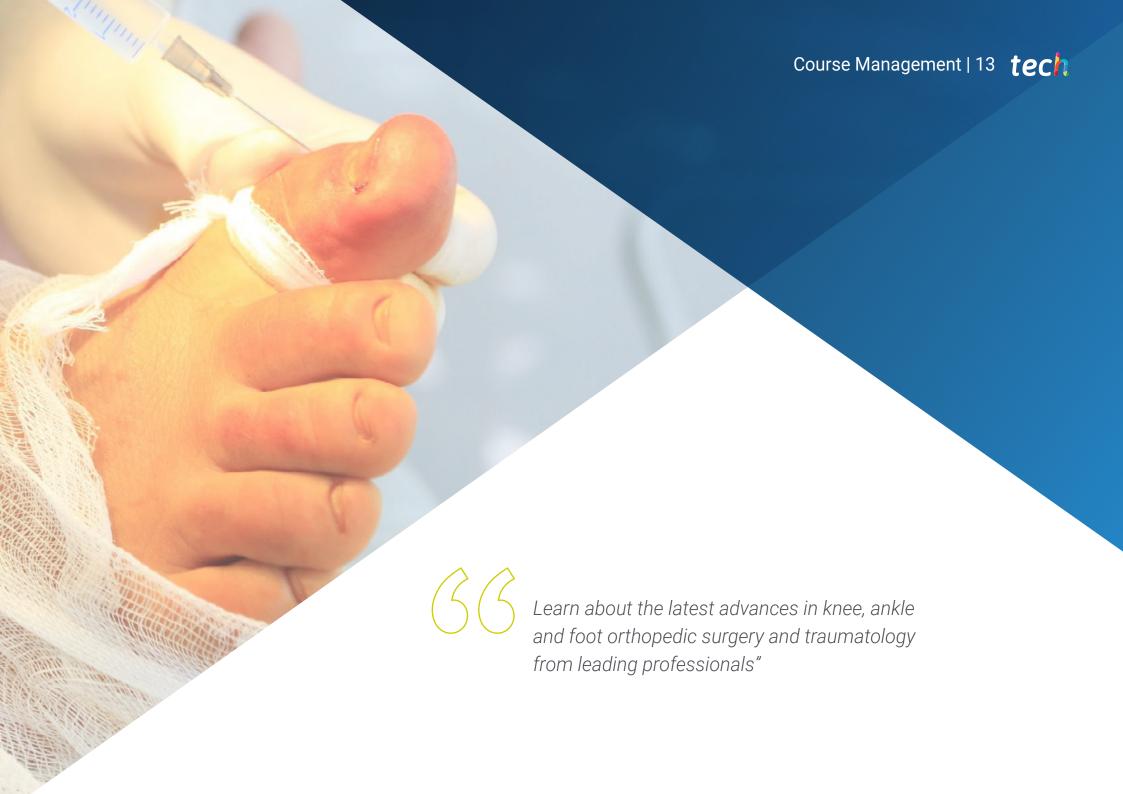
Objectives | 11 tech

- * Apply indications and surgical techniques in unicompartmental prosthesis.
- Interpret management of femoral defects and total knee replacement.
- Interpret management of tibial defects and total knee replacement.
- Apply indications and surgical techniques in constrained and semi-constrained knee prostheses.
- Apply indications and surgical techniques in knee denervation in painful total knee replacements.
- Review the technique of arthroscopic knee mosaicplasty.
- Identify the correct sequence of steps to be followed in the implantation of chondrocyte culture in articular pathology in the knee.
- Evaluate microfracture performance in chondral pathology of the knee.
- Review indications, types and surgical techniques in tibial osteotomies.
- Review indications and surgical techniques in femoral osteotomies.
- Review indications and surgical techniques for implanting cushioning systems in gonarthrosis.
- Review the latest evidence on the management of lesser toe deformities and metatarsalgias.
- · Review latest evidence on forefoot minimally invasive surgery.
- Review surgical techniques for flatfoot in adults.
- Review surgical techniques in pes cavus.
- Update knowledge on hindfoot pathology.
- Review the procedures in the approach to foot and ankle arthrodesis.
- Identify bone and soft tissue tumors and their correct treatment.
- Describe the characteristics of the different types of congenital malformations.
- Classify diabetic foot lesions in scale of degrees and correct treatment in each case

- Explain the reasons for ankle instability and decide on the right treatment.
- Distinguish and classify ligament injuries.
- Review reconstructive techniques.
- * Recognize ankle impingement syndrome.
- Recognize the correct steps to follow in the event of osteochondral lesions.
- Recognize the correct steps to follow in case of tibial pylon fracture and ankle fracture.
- Recognize the correct steps to follow in case of fractures and dislocations of the calcaneus and talus.
- Recognize the correct steps to follow in case of midfoot and forefoot fractures and dislocations.







International Guest Director

Dr. Michael Gardner is a leading international leader in the field of **Orthopedic Traumatology**, with an exceptional track record in both **practice** and **clinical research**. He is recognized for his expertise in the treatment of **fractures** of the **upper and lower limbs**, as well as the **pelvis**, the management of **pseudarthrosis** and **malunions**.

Of particular note is his work as **co-founder** and **CEO** of the **National Scoliosis Clinic**, a center that leverages **Artificial Intelligence** and **Telehealth** to transform the way **Scoliosis** is detected and managed. In addition, he has worked as an **Orthopedic Trauma surgeon** at the University of Washington and, since joining the staff at Stanford University, has held key roles, including **Head** of the **Orthopedic Trauma** Service and **Deputy Chairman** of the **Department** of **Orthopedic Surgery**.

He has also been internationally recognized for his innovative research and leadership in the development of advanced surgical techniques. In this way, he has patented Systems and Methods for the Detection of Musculoskeletal Anomalies and Fractures; Bone Stabilizing Implants and Methods of Placement through the Joints; and Grafts for the Repair of Segmental Bone Defects.

He has also been invited to participate in numerous national and international activities and has played important roles in various organizations, such as the **Orthopedic Trauma Association**. In addition, he has been honored with multiple **awards** and **recognitions** for his **excellence in research** and **service to the medical community**. In this regard, his research program has been recognized for its efficient and productive approach, with more than 100 published scientific articles, 38 book chapters and the edition of 5 textbooks.



Dr. Gardner, Michael J.

- · Co-founder and CEO of National Scoliosis Clinic
- · Orthopedic Traumatology Physician
- · Deputy Chairman of the Department of Orthopedic Surgery at Stanford University
- · Head of the Orthopedic Trauma Service at Stanford University
- · Director of the Orthopedic Traumatology Research Program at Stanford University
- · Surgeon of Orthopedic Traumatology at Washington University
- M.D., Drexel University
- · B.S. in Chemistry from Williams College
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Management



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- Professor in the Faculty of Medicine at Cardenal Herrera University CEU, Valencia.
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- Pro Academia Award of the European Society of NMR.
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- 2nd Prize Ángel Herrera Research Award from the San Pablo CEU Foundation, member of the Board of Directors of the Spanish Society for Research in Orthopedic Surgery (INVESCOT)
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Module 1. Overview

- 1.1. Ethical Aspects of Orthopedic Surgery and Traumatology
- 1.2. Evidence-Based Medicine for Choosing the Correct Treatment in Orthopedic Surgery and Traumatology.
- 1.3. Bone Bank
 - 1.3.1. Bone Substitute
 - 1.3.2. Current concepts
- 1.4. Update on Antibiotic Prophylaxis in Orthopedic Surgery and Traumatology.
- 1.5. Thromboprophylaxis in Orthopedic Surgery and Traumatology.
 - 1.5.1. Evidence on Physical Measurements.
 - 1.5.2. New Oral Anticoagulants
- 1.6. Update on Blood-Saving Policies Used in Orthopedic Surgery and Traumatology.
- 1.7. Applications of Cell Cultures in Orthopedics and Traumatology.
- 1.8. Use of BMP in Orthopedics and Traumatology.
- 1.9. Clinical Evidence on Plateletrich Plasma in Tendon and Joint Pathology.
- 1.10. Biopsychosocial Model in Musculoskeletal Pathology.
 - 1.10.1. Fear-avoidance Model in Musculoskeletal Pain.
- 1.11. Update on Results Measurement in Orthopedic Surgery and Traumatology.
 - 1.11.1. Pain, Health and Quality of Life.
- 1.12. Interventional Radiology in Musculoskeletal Pathology.
- 1.13. Current Concepts of Neurophysiology in Orthopedic Surgery.

Module 2. Knee

Section: Meniscal Pathology

- 2.1. Meniscal Suture
 - 2.1.1. Techniques.
 - 2.1.2. Indications.
- 2.2. Meniscal Transplant
 - 2.2.1. Techniques.
 - 2.2.2. Indications.

- 2.3. Discoid Meniscus
 - 2.3.1. Meniscal Cysts.
 - 2.3.2. Diagnosis.
 - 2.3.3. Treatment Management.
- 2.4. Degenerative Meniscal Tears.
 - 2.4.1. Current Evidence on Surgical Treatment.
 - 2.4.2. Current Evidence on Conservational Treatment.

Section: Pathology of the Extensor Apparatus

- 2.5. Evaluate Anterior Knee Pain Syndrome.
 - 2.5.1. Current concepts
- 2.6. Proximal and Distal Stabilization Techniques in Patellar Instability.
 - 2.6.1. Medial Patellofemoral Ligament Plasty in Patellar Instability.
- Complications and Failures of Patellar Stabilization Techniques. Salvage.
- 2.8. Rupture of the Extensor Apparatus.
 - 2.8.1. Reconstruction Techniques.
 - 2.8.2. Transplantation of Extensor Apparatus
- 2.9. High and Low Patella Reconstructive Techniques

Section: Knee Arthroplasty

- 2.10. Primary Knee Prosthesis.
 - 2.10.1. Articular Ligament Balance.
 - 2.10.2. Preservation of the Anterior Cruciate Ligament (ACL).
 - 2.10.3. Preservation of the Posterior Cruciate Ligament (PCL).
 - 2.10.4. Post-stabilized Prosthesis.
- 2.11. MIS Approach in Knee Arthroplasty.
- 2.12. New Designs in Total Knee Prosthesis.
 - 2.12.1. Gender Design.
 - 2.12.2. Hiperflex.
 - 2.12.3. Turntable.
 - 2.12.4. Alternatives to Cementation and New Materials.

- 2.13. Unicompartmental Prosthesis.
 - 2.13.1. Indications.
 - 2.13.2. Surgical management
- 2.14. PTR Replacement
 - 2.14.1. Management of Femoral Defects.
- 2.14. PTR Replacement
 - 2.15.1. Management of Tibial Defects.
- 2.16. Constricted and Semi-constrained Knee Prostheses.
 - 2.16.1. Indications.
 - 2.16.2. Surgical management
- 2.17. Knee Denervation in Painful PTR.
 - 2.17.1. Indications.
 - 2.17.2. Surgical management

Section: Joint Preservation surgery

- 2.18. Arthroscopic Knee Mosaicplasty.
- 2.19. Chondrocyte Culture Implantation in Joint Pathology in the Knee.
- 2.20. Microfractures in Chondral Pathology of the Knee.
- 2.21. Tibial Osteotomies.
 - 2.21.1. Indications.
 - 2.21.2. Types.
 - 2.21.3. Surgical management
- 2.22. Femoral Osteotomies.
 - 2.22.1. Indications.
 - 2.22.2. Techniques
- 2.23. Implantation of Cushioning Systems in Gonarthrosis.
 - 2.23.1. Indications.
 - 2.23.2. Surgical Defects.

Structure and Content | 23 tech

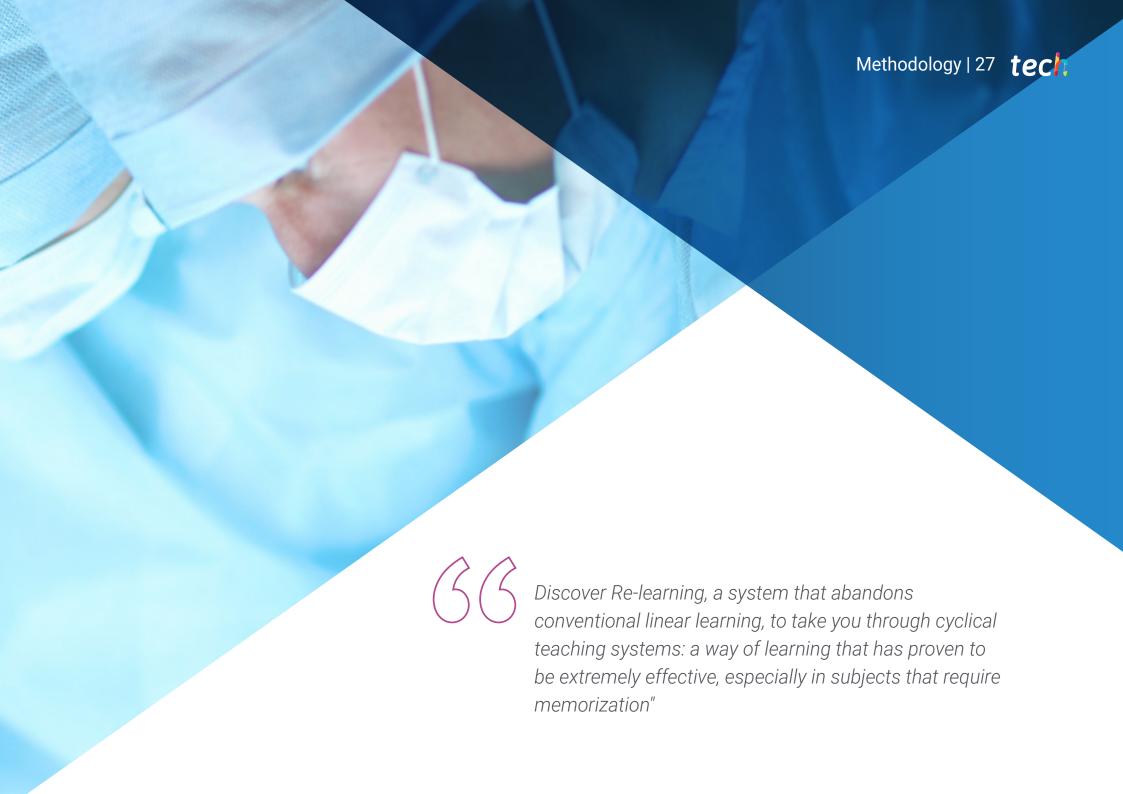
Module 3. Foot and Ankle

- 3.1. Hallux Valgus and Hallux Rigidus.
- 3.2. Deformities of the Little Toes and Metatarsalgia.
- 3.3. Minimally Invasive Surgery (MIS) of the Forefoot.
- 3.4. Update on Flat Foot in Adults.
 - 3.4.1. Surgical Defects.
- 3.5. Update on Pes Cavus.
 - 3.5.1. Surgical Defects.
- 3.6. Hindfoot Pathology.
 - 3.6.1. Arthrodesis of the Foot.
 - 3.6.2. Arthrodesis of the Ankle
- 3.7. Bone and Soft Tissue Tumors
- 3.8. Congenital Malformations.
- 3.9. Diabetic Foot
- 3.10. Ankle Instability
 - 3.10.1. Ligament Injuries.
 - 3.10.2. Reconstructive Techniques
- 3.11. Ankle Impingement Syndrome.
 - 3.11.1. Canalicular Syndromes.
 - 3.11.2. Tendon Disorders.
 - 3.11.3. Tendoscopy.
- 3.12. Osteochondral Injuries
 - 3.12.1. Osteochondritis of the Talus.
 - 3.12.2. Ankle Arthroscopy.
 - 3.12.3. Foot Arthroscopy.

Section: Update in Traumatic Pathology

- 3.13. Tibial Pylon Fracture and Ankle Fracture.
- 3.14. Calcaneus and Talus Fractures and Dislocations.
- 3.15. Fractures and Dislocations of the Midfoot and Forefoot.





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At TECH we use the Case Method

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH you can experience a way of learning that is shaking the foundations of traditional universities around the world



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching potential or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in professional medical 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:

- Students 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 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.



Re-Learning Methodology

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

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

The physician will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-theart software to facilitate immersive learning



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

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

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

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

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

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



Study Material

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



Latest Techniques and Procedures on Video

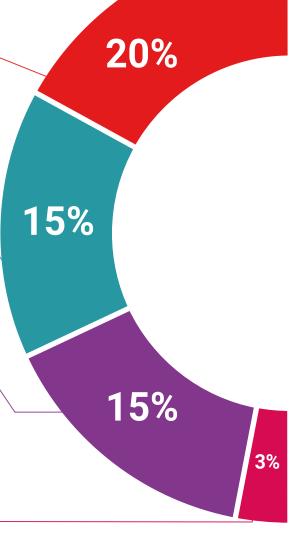
We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



Interactive Summaries

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

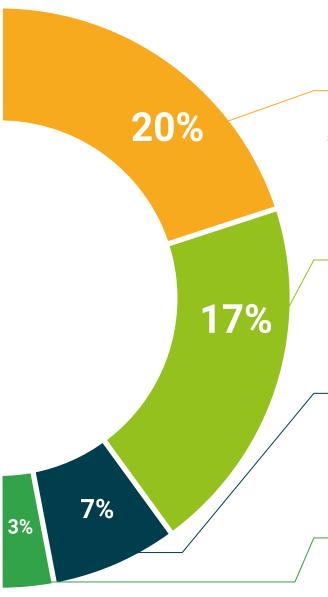
This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".





Additional Reading

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



Expert-Led Case Studies and Case Analysis

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



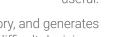
Testing & Re-testing

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



Classes

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





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

Quick Action Guides

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







tech 34 | Certificate

This private qualification will allow you to obtain a **Postgraduate Diploma in Knee, Ankle and Foot Orthopedic Surgery and Traumatology** 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 Diploma in Knee, Ankle and Foot Orthopedic Surgery and Traumatology

Modality: online

Duration: 6 months

Accreditation: 20 ECTS



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

Postgraduate Diploma in Knee, Ankle and Foot Orthopedic Surgery and Traumatology

This is a private qualification of 600 hours of duration equivalent to 20 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



^{*}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.

health
health
information
guarantee
feaching
feaching
feaching
feaching
feaching
minitersity

Postgraduate Diploma Knee, Ankle and Foot Orthopedic Surgery and Traumatology

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 20 ECTS
- » Schedule: at your own pace
- » Exams: online

