

Postgraduate Diploma

Management of Ankle Surgery Complications





Postgraduate Diploma Management of Ankle Surgery Complications

Course Modality: **Online**

Duration: **6 months**

Certificate: **TECH Technological University**

Official N° of hours: **450 h.**

Website: www.techtute.com/in/medicine/postgraduate-diploma/postgraduate-diploma-management-ankle-surgery-complications

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01

Introduction

Osteoarthritis at the tibio-peroneal-astragal joint level is one of the most frequent pathologies, which generates a significant level of disability in patients who suffer from it. As such, it can develop from a heavy load driver to a professional basketball player in the NBA. Its approach requires a high degree of knowledge and expertise in surgical techniques. Given its complexity and the need for specialization in this area, TECH has created this 100% online qualification, which addresses ankle osteoarthritis and arthroplasty, the most common problems in the rearfoot, as well as skin defects and infections of the bones of the foot and ankle. All this, through a theoretical-practical syllabus and high-quality multimedia content, prepared by professional orthopedic surgeons from relevant hospitals.





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You will achieve in only 6 months the knowledge update you are looking for in the Management of Ankle Surgery Complications”

Nowadays, medical professionals face great challenges derived from the intervention in patients suffering from ankle injuries, such as osteoarthritis or osteomyelitis in the bones of the foot. These two pathologies require advanced and precise knowledge of the processes, both in diagnosis and management, as well as in the possible complications that may arise.

A specialization increasingly required due to the increase in patients suffering from flat feet, cape foot, primary and post-traumatic osteoarthritis or require reconstruction of skin defects in this lower limb of the human body. In this sense, technological and technical advances have revolutionized and significantly modified the treatment and prognosis of these complications, which are quite frequent in the foot and ankle area. Faced with this reality, TECH has created this Postgraduate Diploma in Management of Ankle Surgery Complications through a 100% online program, taught by professional teachers with extensive experience in this subspecialty.

In this way, over the course of 6 months, the specialist will learn about the latest developments in the approach to patients with hindfoot injuries, and will be offered the most innovative techniques in the treatment of ankle osteoarthritis or the most appropriate surgical indications and their decision algorithm. All this will be possible thanks to an extensive range of teaching resources, including video summaries of each topic, videos in detail, essential readings and clinical cases, which make up the library of this program.

A qualification with a theoretical-practical approach, which is an excellent opportunity for the medical professional to be able to comfortably study a Postgraduate Diploma, whenever and wherever they want. All you need is an electronic device with an internet connection to access the content hosted on the virtual campus. You will also be able to distribute the course load according to your needs, making this program an ideal option for those seeking to balance their personal responsibilities with a quality university education.

This **Postgraduate Diploma in Management of Ankle Surgery Complications** 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 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
- ♦ Practical exercises where the self-assessment 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



A Postgraduate Diploma that will provide you with a new vision in the approach to osteoarthritis at the tibio-peroneal-astragal joint level"

“

Undoubtedly an educational option, designed and conceived for professionals who wish to balance their responsibilities with quality teaching”

The program's teaching staff includes professionals from sector who contribute their work experience to this 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 psychologists must try to solve the different professional practice situations that arise throughout the program. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

A 100% online program that will allow you to be aware of the current surgical approach to patients with hindfoot pathologies.

Easily delve into the most innovative surgical techniques for the treatment of ankle osteoarthritis through multimedia resources.



02 Objectives

New technologies have had a significant influence on current techniques to approach ankle surgeries, which is why this Postgraduate Diploma offers the specialist the most recent scientific evidence in this area. This will allow the specialist to be aware of the solution methods, the determination of a patient suitable or not for certain interventions or the advances in the management of ankle osteoarthritis and arthroplasty at the end of this program. The expert teaching faculty of this program will accompany the professional to achieve these goals successfully.





“

You have 450 teaching hours of advanced and recent content on the most frequent complications in ankle surgery”



General Objectives

- ♦ Mention frequent complications and how to avoid them
- ♦ Update inclusion and exclusion criteria for patients who are candidates for ankle prosthesis treatment
- ♦ Analyze in depth the basic principles and biomechanics of ankle prostheses
- ♦ List criteria for selection of ideal patients for each surgical technique
- ♦ Detail indispensable principles for the realization of a graft or flap in the coverage of skin defects at the level of the foot and ankle



The case studies and detailed videos provide you with an eminently practical vision, which will lead you to integrate new techniques into your daily practice"





Specific Objectives

Module 1. Hindfoot Pathology

- ♦ Develop European and leading society guidelines and update literature and articles of interest
- ♦ Specify the surgical indications and their decision algorithm
- ♦ Establish contraindications as well as special situations

Module 2. Ankle Arthrosis and Arthroplasty

- ♦ Generate specialized knowledge on the pathophysiology of ankle osteoarthritis
- ♦ Develop the most innovative surgical techniques for the treatment of ankle osteoarthritis
- ♦ Determine the criteria for the selection of the ideal patients for each surgical technique

Module 3. Reconstruction of Cutaneous Defects of the Foot and Ankle Osteomyelitis of Bones of the Foot and Ankle

- ♦ Understand the pathophysiology of osteomyelitis
- ♦ Examine the anatomy of the leg, ankle, and foot area to develop anatomical guides
- ♦ Determine high and low complexity techniques to provide a range of options
- ♦ Select the appropriate graft or flap based on the type of defect present

03

Course Management

The excellent knowledge in lower limb surgery, as well as the performance of this specialty in reference hospitals have been decisive in the selection of the teaching team that integrates this university qualification. Their exceptional professional background is a guarantee for the specialist who attends this program to obtain an adequate update in this subspecialty. Likewise, the proximity of the teaching staff will allow you to resolve any doubts that may arise regarding the syllabus of this 100% online program.



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TECH has selected for this Postgraduate Diploma a team of professionals specialized in traumatology from leading hospitals"

Management



Dr. Pacheco Gutiérrez, Victor Alexander

- ◆ Specialist in Orthopedics and Sports Medicine, Dr. Sulaiman Al Habib Hospital
- ◆ Medical Advisor, Venezuelan Cycling Federation
- ◆ Specialist, Department of Shoulder and Elbow Orthopedics and Sports Medicine, La Isabelica Clinical Center
- ◆ Medical advisor to several baseball clubs and to the Carabobo Boxing Association
- ◆ Degree in Medicine, University of Carabobo
- ◆ Specialty in Orthopedics and Traumatology, Dr. Enrique Tejera Hospital City

Professors

Dr. Morrillo, Francisco

- ◆ Specialist Physician at the Traumatology and Orthopedics Service of the Angel Larralde University Hospital
- ◆ General Physician at the Coca-Cola FEMSA Medical Service
- ◆ Medical Specialist in Traumatology and Orthopedics at Hospital Molina Sierra IVSS
- ◆ Graduated in Medicine and Surgery at the University of Carabobo
- ◆ Specialist in Traumatology and Orthopedics at the University Hospital Dr. Angel Larralde
- ◆ Master's Degree in Hand Surgery at the University of Barcelona

Dr. López Guevara, Daniel

- ◆ Medical Sonographer and specialist in Traumatology and Orthopedics in SAMAM Clinic
- ◆ Medical specialist in Traumatology and Orthopedic Surgery in various clinical centers in the city of Valencia
- ◆ Medical specialist in Traumatology and Orthopedics in the Upper Limb and Reconstructive Microsurgery Unit of the Hospital City Dr. Enrique Tejera
- ◆ Graduated in Medicine and Surgery at the University of Carabobo, Venezuela
- ◆ Specialist in Traumatology and Orthopedics at the Dr. Enrique Tejera Hospital City



Dr. Lucar López, Gustavo

- ◆ Specialist in the Foot and Ankle Unit and Sports Traumatology at Creu Blanca Clinic
- ◆ Head of the Foot and Ankle Unit at Mataró Hospital
- ◆ Graduated in Medicine and Surgery at the University of Carabobo
- ◆ Specialist in Orthopedic Surgery and Traumatology at the Mataró Hospital

Dr. Díaz Figueroa, Omar

- ◆ Specialist in Reconstruction of Complex Extremity Injuries at the Central Hospital of Valencia
- ◆ Specialist in Hand Surgery and Reconstructive Microsurgery at Guerra Mendez Medical Center
- ◆ Graduated in Medicine and Surgery at the University of Carabobo
- ◆ Specialist in Traumatology and Orthopedics at the University Hospital Dr. Angel Larralde.
- ◆ Sub-specialist in Hand Surgery and Reconstructive Microsurgery at The Campbell Clinic - Hand Surgery and Reconstructive, in Memphis, USA

Dr. Guerrero Forero, Santiago

- ◆ Orthopedic Foot and Ankle Surgeon and Instructor at the Foot and Ankle Clinic at San José Hospital
- ◆ Orthopedist and traumatologist at Country Clinic
- ◆ President of FLAMECIPP
- ◆ Orthopedist and Foot and Ankle Surgeon at Colmedica Medical Centers
- ◆ Orthopedist and traumatologist in Clinisanitas
- ◆ Head of the Orthopedics and Traumatology Service at Kennedy's Hospital Occidente
- ◆ Graduated in Medicine and Surgery at Nuestra Señora del Rosario College
- ◆ Specialist in Orthopedics and Traumatology at San Jose Hospital
- ◆ Sub-specialist in Foot and Ankle Surgery at Jackson Memorial Hospital, Miami

04

Structure and Content

The effectiveness of the Relearning method, based on the reiteration of content, has led TECH to use it in all its qualifications. Thanks to this system, the specialist will be able to reduce the long hours of memorization and study, in addition to cementing in a more efficient way the concepts addressed in this Postgraduate Diploma. In this way, the professional will delve into the latest techniques used for the diagnosis of hindfoot pathologies and the management of the different complications that can occur in ankle surgery. You will also be able to expand this information through a multimedia resource library, available 24 hours a day.





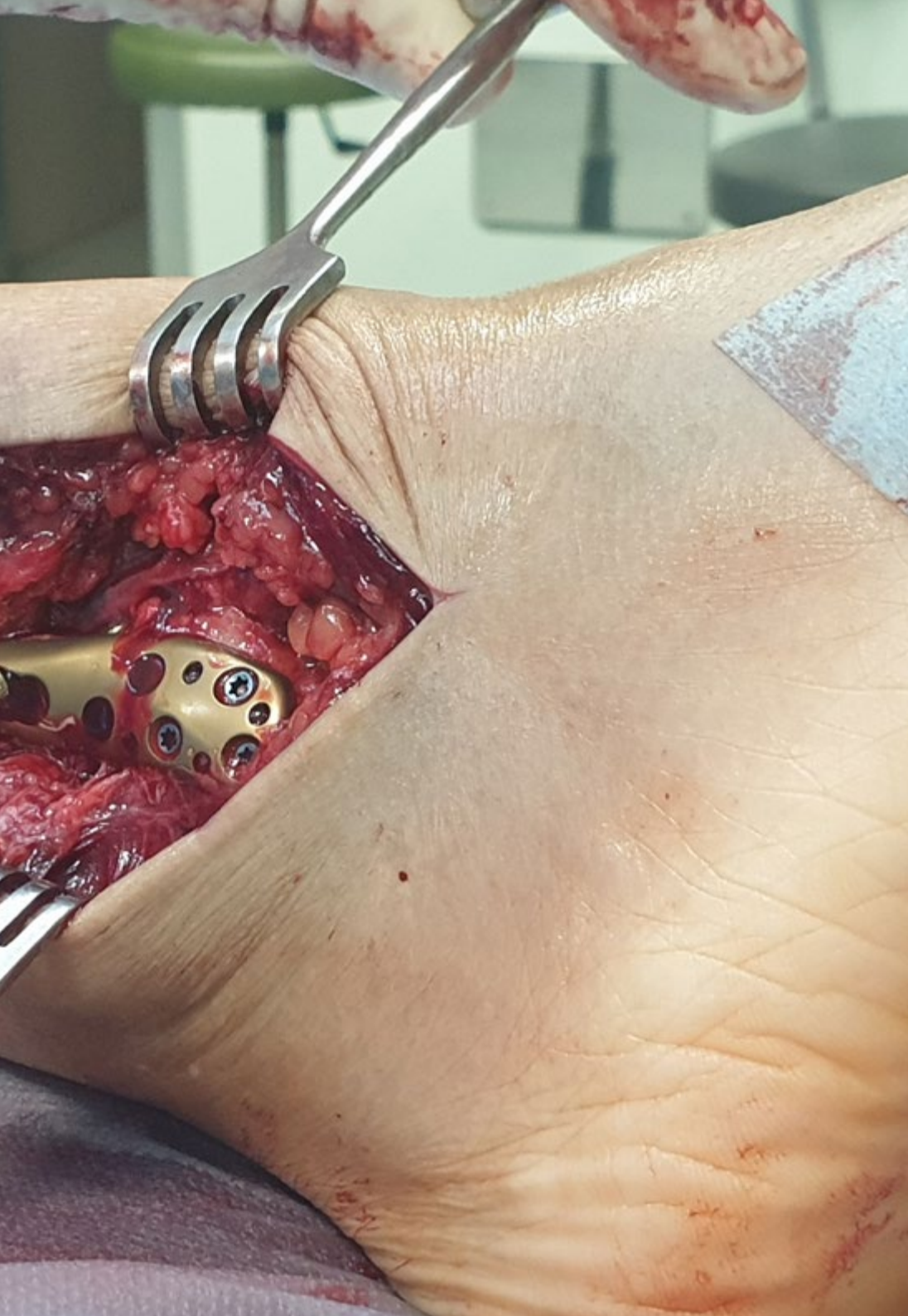
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The multimedia pieces will help you with their dynamism to get up to date on hindfoot pathologies and ankle osteoarthritis and arthroplasty"

Module 1. Hindfoot Pathology

- 1.1. Posterior Tibial Insufficiency
 - 1.1.1. Anatomy
 - 1.1.2. Indications - Contraindications
 - 1.1.3. Surgical Technique
 - 1.1.4. Post-Operative
- 1.2. Peroneal Tendon Injuries
 - 1.2.1. Anatomy
 - 1.2.2. Approach Route
 - 1.2.3. Surgical Technique
 - 1.2.4. Rescue Techniques
- 1.3. Achilles Injuries
 - 1.3.1. Anatomy
 - 1.3.2. Surgical Technique
 - 1.3.3. Rescue Techniques
- 1.4. Plantar Fasciitis
 - 1.4.1. Anatomy
 - 1.4.2. Surgical Technique
 - 1.4.3. Rescue Techniques
- 1.5. Pes Cavus
 - 1.5.1. Anatomy
 - 1.5.2. Surgical Technique
 - 1.5.3. Post-Operative
- 1.6. Subtalar Arthrodesis
 - 1.6.1. Indications - Contraindications
 - 1.6.2. Surgical Technique
 - 1.6.3. Post-Operative
- 1.7. Triple Arthrodesis
 - 1.7.1. Anatomy
 - 1.7.2. Boarding Routes
 - 1.7.3. Surgical Technique
 - 1.7.4. Rescue Techniques





- 1.8. Posterior Tibial Nerve Compression
 - 1.8.1. Anatomy
 - 1.8.2. Surgical Technique
 - 1.8.3. Post-Operative
 - 1.8.4. Treatment of Sequelae
- 1.9. Osteochondral Injury of Talus
 - 1.9.1. Anatomy
 - 1.9.2. Boarding Routes
 - 1.9.3. Surgical Technique
 - 1.9.4. Postoperative
 - 1.9.5. Complications
- 1.10. Treatment of Sequelae
 - 1.10.1. Acute - Chronic Infection
 - 1.10.2. Role of Arthroscopy in Sequelae
 - 1.10.3. Pseudarthrosis
 - 1.10.4. Rescue with External Fixator

Module 2. Ankle Arthrosis and Arthroplasty

- 2.1. Ankle Arthrosis
 - 2.1.1. Etiology
 - 2.1.2. Signs and Symptoms
 - 2.1.3. Image Interpretation
 - 2.1.4. Conservative Treatment Alternatives
- 2.2. The Role of Arthroscopy in Osteoarthritis of the Ankle
 - 2.2.1. Scope of Treatment
 - 2.2.2. Benefit of the Treatment
 - 2.2.3. Surgical Technique
- 2.3. Ankle Arthrodiastasis
 - 2.3.1. Scientific Evidence
 - 2.3.2. Indications
 - 2.3.3. Surgical Technique

- 2.4. Osteochondral Injury of the Thallus
 - 2.4.1. Reconstructive Alternatives
 - 2.4.2. Scientific Evidence
 - 2.4.3. Surgical Technique
 - 2.4.4. Clinical Cases
- 2.5. Arthrodesis of Ankle
 - 2.5.1. Indications
 - 2.5.2. Contraindications
 - 2.5.3. Arthroscopic Ankle Arthrodesis
 - 2.5.4. Tibiotalar and Tibiotalocalcaneal Arthrodesis with Plates
 - 2.5.5. Tibiotalocalcaneal Arthrodesis with Retrograde Nailing
- 2.6. Supramalleolar Osteotomy in Ankle Osteoarthritis
 - 2.6.1. Indications
 - 2.6.2. Contraindications
 - 2.6.3. Surgical Technique
 - 2.6.4. Scientific Evidence
- 2.7. Total Ankle Arthroplasty
 - 2.7.1. Evolution of the Technique
 - 2.7.2. Implants
 - 2.7.3. The Winning Patient
 - 2.7.4. Indications
 - 2.7.5. Contraindications
 - 2.7.6. Complications
- 2.8. Total Ankle Arthroplasty with Osteochondral Defect of Talar Dome
 - 2.8.1. Definition
 - 2.8.2. Surgical Technique
 - 2.8.3. Postoperative Management
- 2.9. Total Ankle Arthroplasty with Valgus Deformity
 - 2.9.1. Definition
 - 2.9.2. Surgical Technique
 - 2.9.3. Postoperative Management

- 2.10. Total Ankle Arthroplasty with Varus Deformity
 - 2.10.1. Definition
 - 2.10.2. Surgical Technique
 - 2.10.3. Postoperative Management

Module 3. Reconstruction of Cutaneous Defects of the Foot and Ankle Osteomyelitis of Bones of the Foot and Ankle

- 3.1. Anatomy of the Foot and Ankle Applied to the Reconstruction of Skin and Bone Defects
 - 3.1.1. Functional Anatomy
 - 3.1.2. Anatomical Guide to Soft Tissue Reconstruction
 - 3.1.3. Anatomical Guide for Bone Tissue Reconstruction
- 3.2. General Principles of Soft Tissue Reconstruction
 - 3.2.1. Surgical Equipment
 - 3.2.2. Patient Assessment and Decision-Making
 - 3.2.3. Preparation and Initial Management of Skin Defects of the Foot and Ankle
- 3.3. Soft Tissue Reconstruction with Low Complexity Procedures
 - 3.3.1. Negative Pressure Therapy
 - 3.3.2. Acellular Dermal Matrix
 - 3.3.3. Skin Grafts
- 3.4. Soft Tissue Reconstruction with Pedicled Regional Flaps
 - 3.4.1. Indications
 - 3.4.2. Preoperative Planning and Most Commonly Used Flaps
 - 3.4.3. Complications
- 3.5. Soft Tissue Reconstruction with Microsurgical Techniques
 - 3.5.1. Indications
 - 3.5.2. Preoperative Planning and Most Commonly Used Free Flaps
 - 3.5.3. Complications
- 3.6. Reverse Sural Flap
 - 3.6.1. Anatomy
 - 3.6.2. Flap Design
 - 3.6.3. Surgical Dissection Technique



- 3.7. Supramalleolar Flap
 - 3.7.1. Anatomy
 - 3.7.2. Flap Design
 - 3.7.3. Surgical Dissection Technique
- 3.8. Anterolateral Thigh Flap
 - 3.8.1. Anatomy
 - 3.8.2. Flap Design
 - 3.8.3. Surgical Dissection Technique
- 3.9. Antebrachial Radial Artery Flap
 - 3.9.1. Anatomy
 - 3.9.2. Flap Design
 - 3.9.3. Dissection Technique
- 3.10. Osteomyelitis of Bones of the Foot and Ankle
 - 3.10.1. Osteomyelitis
 - 3.10.2. Management of Bone Defects Secondary to Osteomyelitis
 - 3.10.3. Role of Soft Tissue Reconstruction in the Management of Foot and Ankle Infections

“ *A unique, key, and decisive educational experience to boost your professional development*”

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.



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

At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, 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. 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, trying to recreate the real conditions in the physician's professional practice.

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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. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate 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.



Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.



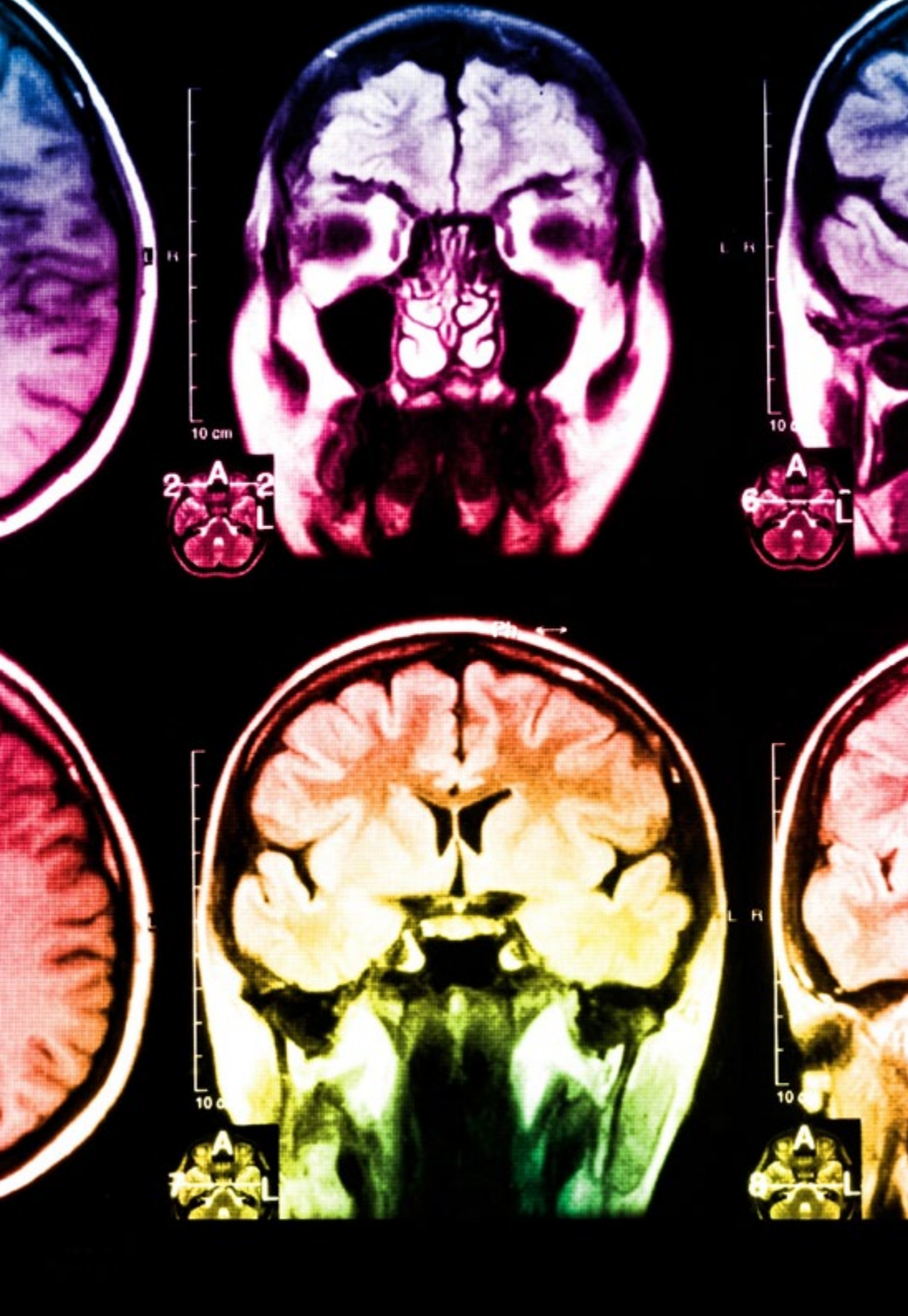
At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology, more than 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. 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 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.



Surgical Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances and 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 the videos as many times as you like.



Interactive Summaries

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

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



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Expert-Led Case Studies and Case Analysis

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



Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



Classes

There is scientific evidence on the usefulness of learning by observing experts. The system known as 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 Diploma in Management of Ankle Surgery Complications guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Technological University.



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

This **Postgraduate Diploma in Management of Ankle Surgery Complications** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Diploma** issued by **TECH Technological University** via tracked delivery*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Diploma in Management of Ankle Surgery Complications**

Official N° of hours: **450 h.**



*Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present quality
development languages
virtual classroom



Postgraduate Diploma
Management of Ankle
Surgery Complications

Course Modality: Online

Duration: 6 months

Certificate: TECH Technological University

Official N° of hours: 450 h.

Postgraduate Diploma

Management of Ankle Surgery Complications

