



Postgraduate Certificate Pediatric Orthopedics and Oncologic Pathology

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

Teaching Hours: 150 hours.

Website: www.techtitute.com/pk/medicine/postgraduate-certificate/pediatric-orthopedics-oncologic-pathology

Index

p. 30

Certificate



tech 06 | Introduction

Tumors of the musculoskeletal system are very common in children and are a frequent cause of great concern for our patients and especially for their parents. Knowledge of this pathology will determine the speed of diagnosis, the peace of mind and security that we can bring to our patients and their families and, finally, the best possible treatment.

Adapting to our times, in Pediatric Orthopedics there is no high-level online training that makes it possible, in our language, to stay at the forefront of updates and access to the fundamental concepts of our speciality.

Although there are only a few one-off in-person courses, the possibility of having access to specialists from a top national and international hospital, with great experience in complex processes of Pediatric Orthopedics, is a unique opportunity today.

The syllabus covers the main topics of current Pediatric Orthopedics in such a way that whoever masters them will be prepared to work in this field in any hospital in the world. Therefore, it is not just another diploma in your backpack, but a real learning tool to approach the topics of the specialty in a modern, objective way and with the ability to make a judgment based on today's most cutting-edge literature.

This Postgraduate Certificate in Pediatric Orthopedics and Oncologic Pathology is the most comprehensive and up-to-date educational program on the market. The most important features of the program include:

- Developing practical cases presented by experts in Pediatric Orthopedics
- The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional development.
- The latest developments in Pediatric Orthopedics.
- Practical exercises where self-assessment can be used to improve learning.
- Special emphasis on innovative methodologies in Pediatric Orthopedics.
- 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



If you want to improve your daily practice, don't hesitate to broaden your knowledge with this intensive training"



This Postgraduate Certificate may be the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in Pediatric Orthopedics, you will obtain a Postgraduate Certificate endorsed by TECH Technological University"

The teaching staff includes professionals from the field of Pediatric Orthopedics, who bring their experience to this training, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the physician with situated and contextual learning, i.e., a simulated environment that will provide immersive training that is programmed to train students 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 throughout the program. For this purpose, the medical specialist in pediatric orthopedics will be assisted by an innovative interactive video system created by renowned and experienced experts in the field of Pediatric Orthopedics.

You will be prepared by professionals with extensive experience in pediatric orthopedics, who will guide you throughout the educational process.

This 100% online Postgraduate Certificate will allow you to combine your studies with your professional work while increasing your knowledge in this field.







tech 10 | Objectives



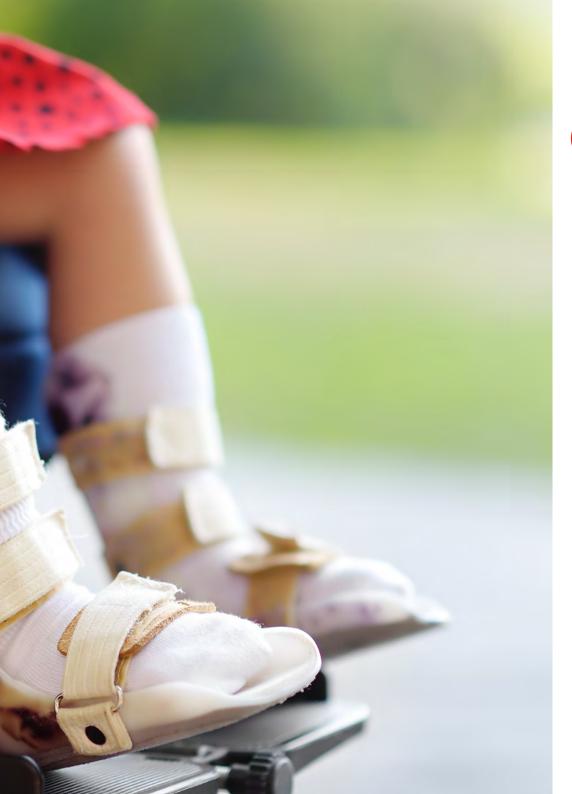
General Objective

• Learn how to make a comprehensive and early diagnosis, and guide the treatment of the main musculoskeletal injuries that appear in children



A unique, key, and decisive training experience to boos training experience to boost your professional development"





Objectives | 11 tech



Specific Objectives

- Learn how to differentiate a lesion with aggressive clinical and radiological characteristics from a non-aggressive one
- Appropriately guide the diagnostic study of this lesion, and if a musculoskeletal biopsy is necessary, learn how to perform it
- Learn the latest treatments for the main musculoskeletal injuries in children





International Guest Director

Mininder Kocher is an internationally prominent pediatric orthopedic surgeon. His professional merits and results have been recognized with numerous awards, including the Kappa Delta award, considered the "Nobel Prize" in this surgical field. In addition, he practices as a specialist at Harvard Medical School.

The scientist also holds the program of Chief of the Division of Sports Medicine at Boston Children's Hospital. From that entity, he deals with different complex pathologies such as joint injuries, Osteomyelitis, Hip Labral Rupture, Osteochondritis Dissecans or Pigmented Villonodular Synovitis, among others. His innovations in these areas of Orthopedic Medicine are reflected in more than 150 academic articles published in first impact indexed journals. He is also the author of more than 100 chapters in books and is the sole author of 4 books. His texts have become an indispensable reference for the medical community, highlighting his undeniable contributions to the field.

Dr. Mininder Kocher's impact extends beyond the borders of the United States, as he serves as a **consultant and advisor to hospitals and universities in more than 20 countries**. Moreover, he has been listed as one of the top surgeons in the world on platforms such as US News & World Report, Castle Connelly, Top Doctors and Boston Magazine. Likewise, his skills and experiences have been the subject of attention in reference media such as the New York Times, Wall Street Journal, USA Today, Boston Globe, Chicago Tribune, Scientific American, among others.

Especially committed to the rehabilitation of children and adolescent athletes, his exhaustive work in this area has been decorated with awards as prominent as the Von Meyer, Richard Kilfoyle, Angela Kuo or Arthur Heune awards.



Dr. Kocher, Mininder

- Orthopaedic Surgery Specialist at Harvard Medical School
- M.D. from Harvard University
- Board Certified in General Practice by the American Board of Orthopaedic Surgery
- Board Certified in Sports Medicine by the American Board of Orthopedic Surgery
- Member of: Board of Directors of the American Academy of Orthopaedic Surgeons, American Orthopaedic Society for Sports Medicine, Pediatric Orthopaedic Society of North America, Herodicus Society, International Pediatric Orthopaedic Think Tank



Management



Dr. Palazón Quevedo, Ángel

- Head of the Neurology Service
- Medical specialist in Orthopedic Surgery and Traumatology with wide and recognized professional experience in the field of O.S.T. for children and adults.
- Degree in Medicine and Surgery from the Complutense University of Madrid and Medical Specialist in O.S.T. via MIR at the San Juan Clinical University Hospital (Alicante-Valencian Community)
- Permanent member of the SECOT since 1999.
- Member of the SEOP since 2014.
- Collaborator with the SECOT board of directors since 2004-06 for the interactive dissemination of the speciality.

Professors

Dr. Egea Gámez, Rosa María

- Attending Physician of the Orthopedics and Traumatology Department of the Niño Jesús Pediatric University Hospital
- Specialist in Orthopedic and Trauma Surgery
- Degree in Medicine and Surgery from the Complutense University of Madrid

Dr. Martínez Álvarez, Sergio

- Attending Physician of the Orthopedics and Traumatology Department of the Niño Jesús Pediatric University Hospital
- Head of the Upper Limb and Pediatric Hand Unit
- Specialist in Pediatric Orthopedic Surgery and Traumatology. La Princesa University Hospital

Dr. Ramírez Barragán, Ana

- Attending physician at the Traumatology and Orthopedic Surgery Service of the Niño Jesús Hospital
- PhD in Medicine from the University of Salamanca
- Degree in Medicine and Surgery from the Complutense University of Madrid
- Specialist in Traumatology and Orthopedic Surgery
- Member of the Spanish Society of Pediatric Orthopedics (SEOP).
- Member of the Spanish Society of Orthopedic Surgery and Traumatology (SECOT).



Course Management | 17 tech

Dr. Del Cura Varas, Marisol

- Attending Physician of the Orthopedic Surgery and Traumatology Department of Hospital Ramón y Cajal (Madrid)
- Degree in Medicine at the U.A.M. (Universidad Autónoma de Madrid)

Dr. Martínez González, Carmen

- Degree in Medicine and Surgery. Autonomous University of Madrid
- Spine Unit. Pediatric Spine Deformation

An opportunity created for professionals who are looking for an intensive and effective course with which to take a significant step forward in their career.





tech 20 | Structure and Content

Module 1. Tumours

- 1.1. Overview and Staging of Musculoskeletal Tumors
 - 1.1.1. Epidemiology
 - 1.1.2. Clinical presentation
 - 1.1.3. Imaging Tests
 - 1.1.4. Staging.
 - 1.1.4.1. Benign Tumors
 - 1.1.4.2. Malignant tumours
- 1.2. Biopsy and Treatment Principles
 - 1.2.1. Types of Biopsy
 - 1.2.2. How to Perform a Musculoskeletal Biopsy?
 - 1.2.3. Types and Principles of Oncologic Resection
- 1.3. Cystic Lesions
 - 1.3.1. Simple Bone Cyst
 - 1.3.2. Aneurysmal Bone Cyst
- 1.4. Benign Tumors from Cartilage in Children
 - 1.4.1. Osteochondroma. Osteochondromatosis
 - 1.4.2. Enchondroma. Endochromatosis
 - 1.4.3. Condroblastoma
 - 1.4.4. Chondromyxoid Fibroma
- 1.5. Benign Tumors from Bones in Children
 - 1.5.1. Osteoma Osteoid
 - 1.5.2. Osteoblastoma
- 1.6. Benign Tumors from Fibrous Tissue in Children
 - 1.6.1. Non-Ossifying Fibroma
 - 1.6.2. Fibrous Dysplasia
 - 1.6.3. Osteofibrous Dysplasia
 - 1.6.4. Langerhans Cell Histiocytosis





Structure and Content | 21 tech

- 1.7. Other Tumours. Miscellaneous
 - 1.7.1. Langerhans Cell Histiocytosis. Eosinophilic Granuloma
 - 1.7.2. Giant Cell Tumor
- 1.8. Benign Tumors From Soft Tissue in Children
 - 1.8.1. Ganglion. Popliteal Cysts
 - 1.8.2. Giant cell tumour of the Tendon Sheath. Villonodular Synovitis
 - 1.8.3. Hemangioma
- 1.9. Malignant Bone Tumors of the Pediatric Skeleton
 - 1.9.1. Ewing Sarcoma
 - 1.9.2. Osteosarcomas
 - 1.9.3. Surgical Treatment Options for Unformed Skeletons
- 1.10. Malignant Tumors in Soft Tissue in Children
 - 1.10.1. Rhabdomyosarcoma
 - 1.10.2. Synovial Sarcoma
 - 1.10.3. Congenital Fibrosarcoma



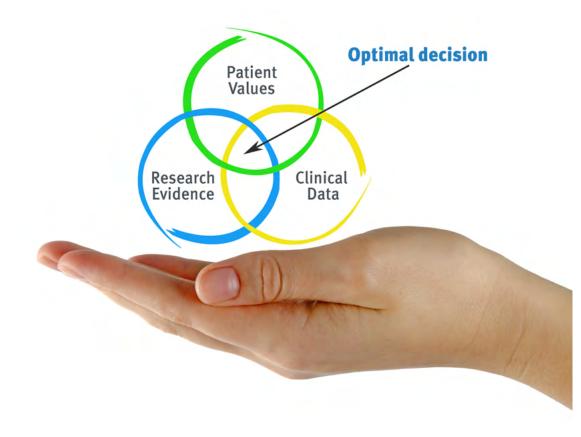


tech 24 | Methodology

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.



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 Harvard case method with the best 100% online teaching methodology available: Relearning.

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

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



Methodology | 27 tech

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

With this methodology, more than 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 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.



Surgical Techniques and Procedures on Video

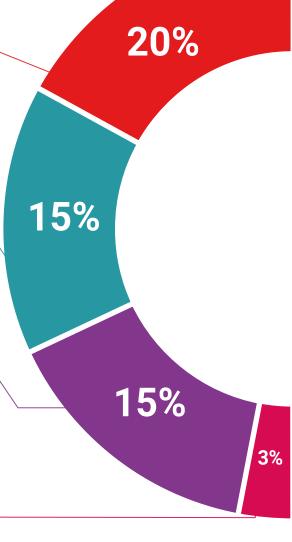
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many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

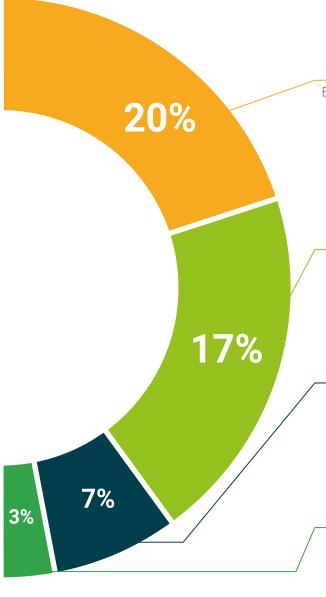
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".





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.







tech 32 | Certificate

This **Postgraduate Certificate in Pediatric Orthopedics and Oncologic Pathology** is the most comprehensive and up-to-date scientific program on the market.

After students have passed the assessments, they will receive by certified mail their **Postgraduate Certificate** issued by **TECH Technological University**.

The certificate issued by **TECH Technological University** will specify the qualification obtained through the University Course, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: Postgraduate Certificate in Pediatric Orthopedics and Oncologic Pathology FCTS: 6

Official Number of Hours: 150



^{*}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.

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institutions fechnology learning
community commitment



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Postgraduate Certificate

Pediatric Orthopedics and Oncologic Pathology

