

Postgraduate Diploma

Early Orthopedic Treatment





Postgraduate Diploma Early Orthopedic Treatment

- » Modality: online
- » Duration: 6 months.
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/in/dentistry/postgraduate-diploma/postgraduate-diploma-early-orthopedic-treatments

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

Certificate

p. 28

01

Introduction

Intervention in dentofacial orthopedics at an early age offers the possibility of a better prognosis in the patient's evolution and better post-treatment results. In this **Postgraduate Diploma** we will introduce you to the latest techniques and procedures in **Early Orthopedic Treatment** developed on the international scene. A specialization that will allow you to advance in your profession with the support of the most recent updates in this field.





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If you want a specialization that you can combine with your profession and that is updated and of high quality, this is your opportunity"

Dentofacial Orthopedics aims to correct the width, length, or height of the jaws; to stimulate or inhibit jaw growth when it is altered; or to improve dental eruption. But there are other abnormalities that can be prevented or cured thanks to this specialty, such as the reduction or elimination of dental crowding; the correction of habits such as thumb sucking or abnormal swallowing, or asymmetry problems, as well as preserving spaces for permanent teeth that have not yet erupted.

This **Postgraduate Diploma in Early Orthopedic Treatment** will allow the student to review the fundamental knowledge of craniofacial growth and to understand the best way to guide abnormal growth in order to correct dental and facial malposition.

This training is distinguished by its order and distribution of theoretical material, guided practical examples in all its modules, and motivational and explanatory videos. This enables direct clinical management, guiding both the professional and the entire team towards the diagnosis, treatment, and monitoring of patients.

In this way, the student will learn about the most used and effective functional appliances, from expanders, disjunctors, and appliances, to the latest innovations in treatment with clear aligners.

In short, the objective is that the student, after completing this **Postgraduate Diploma**, will be able to completely diagnose patients' growth disorders and carry out effective treatment adapted to the patient's needs.

This **Postgraduate Diploma in Early Orthopedic Treatment** includes the most complete and updated scientific program on the market. The most important features of the program include:

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



Expand your knowledge through this Postgraduate Diploma in Early Orthopedic Treatment"

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This Postgraduate Diploma may be the best investment you can make when choosing a refresher program for two reasons: in addition to updating your knowledge Update your knowledge in Early Orthopedic Treatment, you will obtain a Postgraduate Diploma from TECH Technological University"

It includes in its teaching staff professionals belonging to the field of Dentofacial Orthopedics, who contribute to this specialization the experience of their work, in addition to recognized 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 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 during the academic year. For this purpose, the professional will be assisted by an innovative interactive video system designed by renowned experts in the field of Dentofacial Orthopedics with extensive medical experience.

Do not hesitate on taking this training with us and improve your daily practice.

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



02

Objectives

The Expand your knowledge through this **Postgraduate Diploma in Early Orthopedic Treatment** is aimed at facilitating the dental health professional's performance, with the latest advances and most innovative treatments in the sector.





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Our goal is to offer you the most complete up-to-date information on Early Orthopedic Treatment”



General Objectives

- ♦ Learn the basic principles of dentomaxillary orthopedics.
- ♦ Master the growth process to know how to try to guide it during orthopedic treatment.
- ♦ Be able to master the dental eruption process, as well as any possible anomalies.
- ♦ Recognize all the structures present in the tests to make a complete and accurate diagnosis, which is essential when choosing the ideal treatment.
- ♦ Learn how to perform the most commonly used cephalometry tests, which will provide important data on growth and will allow you to choose one treatment or another.
- ♦ Be able to identify vertical problems present in the patient and explain their most common manifestations.
- ♦ Learn to identify the manifestations of transversal problems in growth and their causes.
- ♦ Learn about all anteroposterior malocclusions and their complexities in order to choose the best possible treatment in each case.
- ♦ Learn the rules that must be followed in order to obtain harmonious growth, as well as the devices that exist to achieve it.
- ♦ Discover the impact that habits have on craniofacial development and the appliances we can use to correct these habits and allow the patient to develop correctly.
- ♦ Be able to identify asymmetries and define their etiology.





Specific Module Objectives

- ♦ Learn the basic concepts of Orthopedics.
- ♦ Know the differences between Orthodontics and Orthopedics.
- ♦ Study the different types of forces present.
- ♦ Identify the classification and etiology of malocclusions.
- ♦ Discover the differences between interceptive and corrective treatment.
- ♦ Learn the importance of performing treatments in two phases.
- ♦ Recognize the limits of treatment in Orthopedics and the possibility of resorting to Orthognathic Surgery.
- ♦ Learn the functional rehabilitation method described by Dr. Pedro Planas.
- ♦ Recognize the classification of functional lesions present in patients.
- ♦ Learn the fundamental laws of occlusion for normal craniofacial development.
- ♦ Identify the most effective treatments, from simple occlusal grinding to placing tracks.
- ♦ Know how to use functional devices in order to restore the patient's normal function.
- ♦ Recognize the importance of habits and the intimate relationship with the correct craniofacial development.
- ♦ Understand mouth breathing, its possible causes and treatment.
- ♦ Learn about muscular hypotonia syndrome and the most effective devices used to treat it.
- ♦ Learn to identify dysfunctional swallowing, how it affects the rest of the stomatognathic apparatus and its possible treatment.
- ♦ Identify the most common habits, such as lingual and labial interposition, their relationship with other malocclusions, and the importance of their treatment.
- ♦ Recognize thumb sucking habits in patients and how to prevent them from persisting over time.
- ♦ Know the most useful devices for treating habits.
- ♦ Recognize the importance of working together with a speech therapist to allow for normal craniofacial development over time.
- ♦ Identify the asymmetries present in patients and their particularities.
- ♦ Classify the asymmetries that can be found in order to improve the efficiency of treatments.
- ♦ Recognize the etiology and prevalence of asymmetries in order to more effectively identify them.
- ♦ Learn the protocols for asymmetries according to their origin and current growth stage.
- ♦ Recognize the different existing devices available to treat asymmetries.

03

Course Management

The program includes in its teaching staff reference experts in Dentofacial Orthopedics, who contribute their work experience to this specialization. Additionally, other recognized experts participate in its design and preparation, completing the program in an interdisciplinary manner.





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The main diagnostic methods, from the hand of professionals in the field, experts in Early Orthopedic Treatment"

Management



Merino González, Belén

- ♦ Degree in Dentistry from the European University of Madrid.
- ♦ Postgraduate Degree in Surgery, Periodontics, and Implantology from the University of Alcalá de Henares.
- ♦ Management in the Surgery Department at Ziving Clinic.
- ♦ Collaborator on the TECH Master's Degree in Surgery.
- ♦ Associate Professor at Rey Juan Carlos University, Madrid. Surgery Department 2014-2015.
- ♦ Speaker at Madrid Dental Association Conferences.
- ♦ Surgery course leader.
- ♦ Daily practice in a private clinic specializing in Surgery, Implantology, and Periodontics.

Co-Direction



Merino González, Ramón

- ♦ Degree in Dentistry from San Pablo-CEU University.
- ♦ Postgraduate Degree in Orthodontics and Dentomaxillary Orthopedics from the University of Alcalá de Henares.
- ♦ Management in the Orthodontics and Orthopedics Department at Ziving Clinic.
- ♦ Preclinical TECH Master's Degree from the I.U. Mississippi.
- ♦ Orthodontist in a private clinic.



04

Structure and Content

The structure of the contents has been designed by leading professionals in Dentofacial Orthopedics, with extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed, studied, and diagnosed, and with extensive knowledge of new technologies applied to dental health.



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This Postgraduate Diploma in Early Orthopedic Treatment contains the most complete and up-to-date scientific program on the market"

Module 1. Introduction to Orthopedics

- 1.1. Basic Concepts.
- 1.2. The Difference between Orthopedics and Orthodontics.
 - 1.2.1. Physiological Forces.
 - 1.2.2. Functional Forces.
 - 1.2.3. Orthodontic Forces.
 - 1.2.4. Orthopedic Forces.
- 1.4. Biomechanics.
- 1.5. Etiology of malocclusions.
- 1.6. Classification of Malocclusions.
- 1.7. Interceptive treatment.
- 1.8. Corrective Treatment
- 1.9. Importance of Two-Phase Treatment.
- 1.10. Boundary between Orthopedics and Orthognathic Surgery.

Module 2. Neuroocclusal Rehabilitation

- 2.1. Concepts.
- 2.2. Minimally Invasive Orthodontics.
- 2.3. Classification of Functional Injuries.
- 2.4. Planar Laws.
- 2.5. Selective Grinding.
- 2.6. Direct Tracks.
- 2.7. Appliances.



Module 3. Habits

- 3.1. Importance and Relationship with Development.
- 3.2. Mouth Breathing.
- 3.3. Muscle Hypotonia
- 3.4. Dysfunctional Swallowing.
- 3.5. Lingual Interposition.
- 3.6. Lip Interposition.
- 3.7. Thumb Sucking.
- 3.8. Habit Control Devices.
- 36.9. Speech Therapy.

Module 4. Cephalometrics

- 4.1. Definition.
- 4.2. Classification of Asymmetries.
- 4.3. Etiology.
- 4.4. Functional Asymmetries Protocol.
- 4.5. Skeletal Asymmetries in Growth Protocol.
- 4.6. Asymmetric Appliances.
- 4.7. Functional Asymmetric Appliances.
- 4.8. Case Studies.



*This will be a key specialization
to advance your career"*

05

Methodology

This specialization provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

This teaching system is used 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 Re-learning, 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

In a given clinical 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. Dentists 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. Gervas, 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 the dentist'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 grasp concepts, but also develop their mental capacity by means of exercises to evaluate real situations and apply 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 student will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.

At the forefront of world teaching, the 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 115,000 students 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 training, 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.



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.



Surgical Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current dental 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 training 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 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.



06

Certificate

The **Postgraduate Diploma in Early Orthopedic Treatment** guarantees you, in addition to the most rigorous and updated Specialization, access to a **Postgraduate Diploma** issued by **TECH Technological University**.





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*Successfully complete this specialisation
and receive your university degree
without travel or laborious paperwork”*

This **Postgraduate Diploma in Early Orthopedic Treatment** includes the most complete and updated scientific program on the market.

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

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

Title: **Postgraduate Diploma in Early Orthopedic Treatment**

ECTS: **24**

Official Number of Hours: **600**



*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

tech universidad
tecnológica

personalized service innovation

knowledge present

online training

development language

classroom

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