

# Postgraduate Certificate

## Introduction to Dentofacial Orthopedics





## Postgraduate Certificate Introduction to Dentofacial Orthopedics

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

website: [www.techtute.com/us/dentistry/postgraduate-certificate/postgraduate-certificate-introduction-dentofacial-orthopedics](http://www.techtute.com/us/dentistry/postgraduate-certificate/postgraduate-certificate-introduction-dentofacial-orthopedics)

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# 01

# Introduction

Dental and oral care is already a widespread concern among the general population. This requires the professional to keep up with new techniques and developments in Dentofacial Orthopedics in order to be able to offer a high level of assistance. This Postgraduate Certificate will introduce you to the latest developments on the international scene. Training that will allow you to advance in your profession with the support of the most recent updates in this field.





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*A high intensity training, including all the necessary contents needed in order to start working in Dentofacial Orthopedics with security and professional solvency”*

This Postgraduate Certificate will serve to introduce the student to the basic principles and concepts of Dentofacial Orthopedics. Orthopedics and Orthodontics is often a blurred line: we will teach the student to differentiate one type of treatment from the other.

The aim is to teach the student about the types of loads present in orthopedic treatment, as well as a fundamental review of biomechanics, with fundamental concepts such as anchorage and retention. All this is necessary to choose the best treatment strategies for patients.

It is very important to know the malocclusions that patients may suffer, as well as their causes. Therefore, the existing malocclusions will be defined, classified and their etiology explained.

In all orthopedic treatment there is interceptive treatment, which is based on treating an alteration before it manifests itself, and corrective treatment, in which an alteration or malformation that has already manifested itself is treated. We will teach the student to convey the importance of interceptive treatment to patients, which saves a lot of treatment time and significantly improves results.

Finally, in this module we will discuss the two-phase treatment, combining Orthopedics and Orthodontics for a comprehensive treatment of the patient and the malocclusions that may be present.

The **Postgraduate Certificate in introduction to the Dentofacial Orthopedics** includes the most complete and up-to-date scientific program on the market. The most important features of the course are:

- ♦ 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.



*Broaden your knowledge through this Postgraduate Certificate in Introduction to Dentofacial Orthopedics"*

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*This is the best online updating program in the market for two reasons: besides updating your knowledge in Dentofacial Orthopedics, you will earn a Postgraduate Certificate by TECH Technological University"*

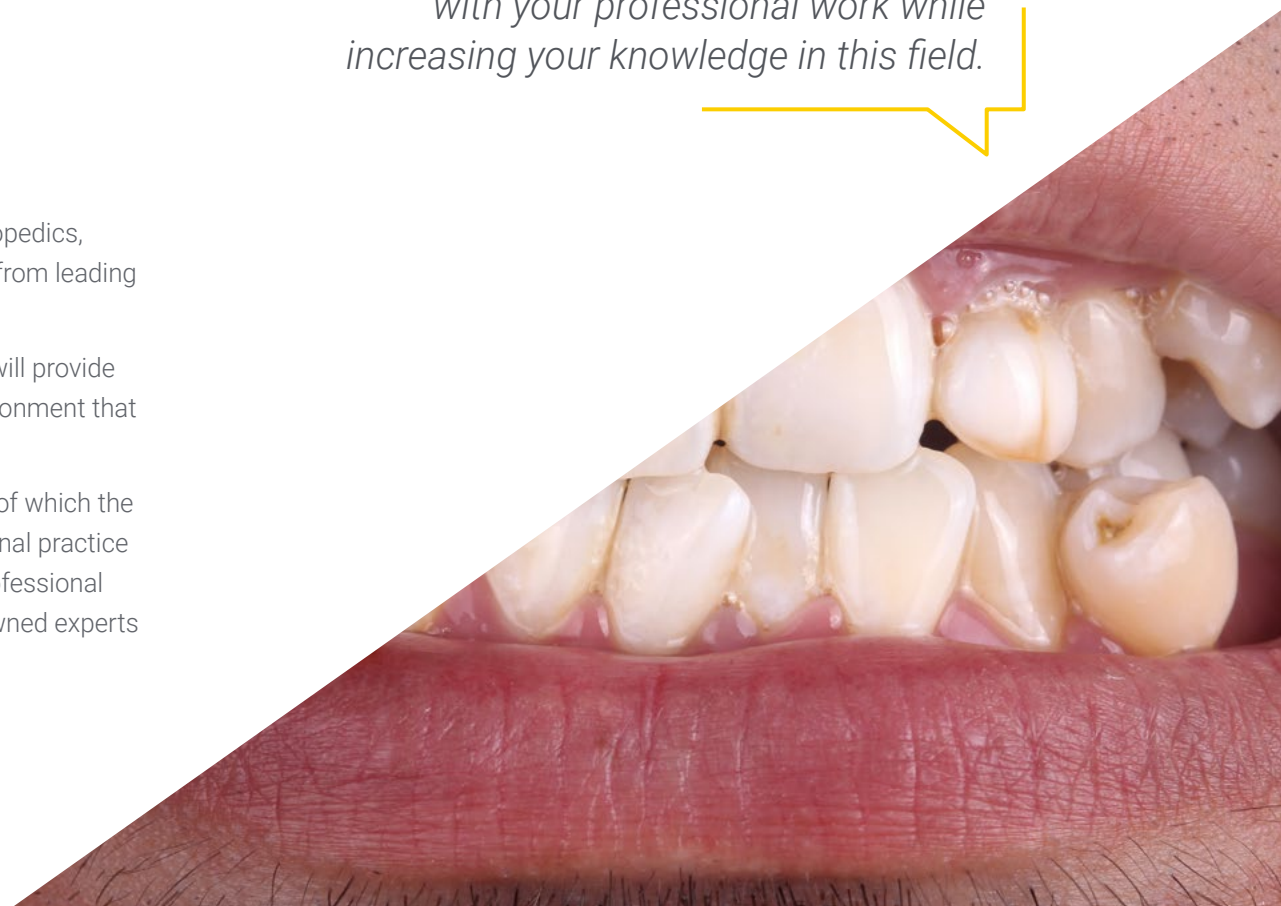
*Do not hesitate and join us in this project in order to improve your daily practice.*

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

The teaching staff includes professionals from the field of Dentofacial Orthopedics, who bring their experience to this Projects, 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 training programmed to train in real situations.

The design of this program focuses on Problem Based Learning, by means of which the professional must try to solve the different situations arising from professional practice throughout the academic Postgraduate Certificate. 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 experience.



02

# Objectives

The Postgraduate Certificate in Introduction to Dentofacial Orthopedics is oriented to facilitate the performance of the professional dedicated to dental health with the latest advances and newest treatments in the sector.





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*Our goal is to offer you the most complete up-to-date information on Applied Diagnostic Techniques in Dentofacial Orthopedics”.*



## General Objectives

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- The student will learn the basic principles of dentomaxillary orthopedics and will review the concepts, within dentistry, necessary to understand this Master's Degree..





## Specific 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.



*Seize the opportunity and take the step to get up to date on the latest developments in Introduction to Dentofacial Orthopedics"*

03

# Course Management

The program includes in its teaching staff reference experts in Dentofacial Orthopedics, who share their work experience in this project. 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 Dentofacial Orthopedics”*

## 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.





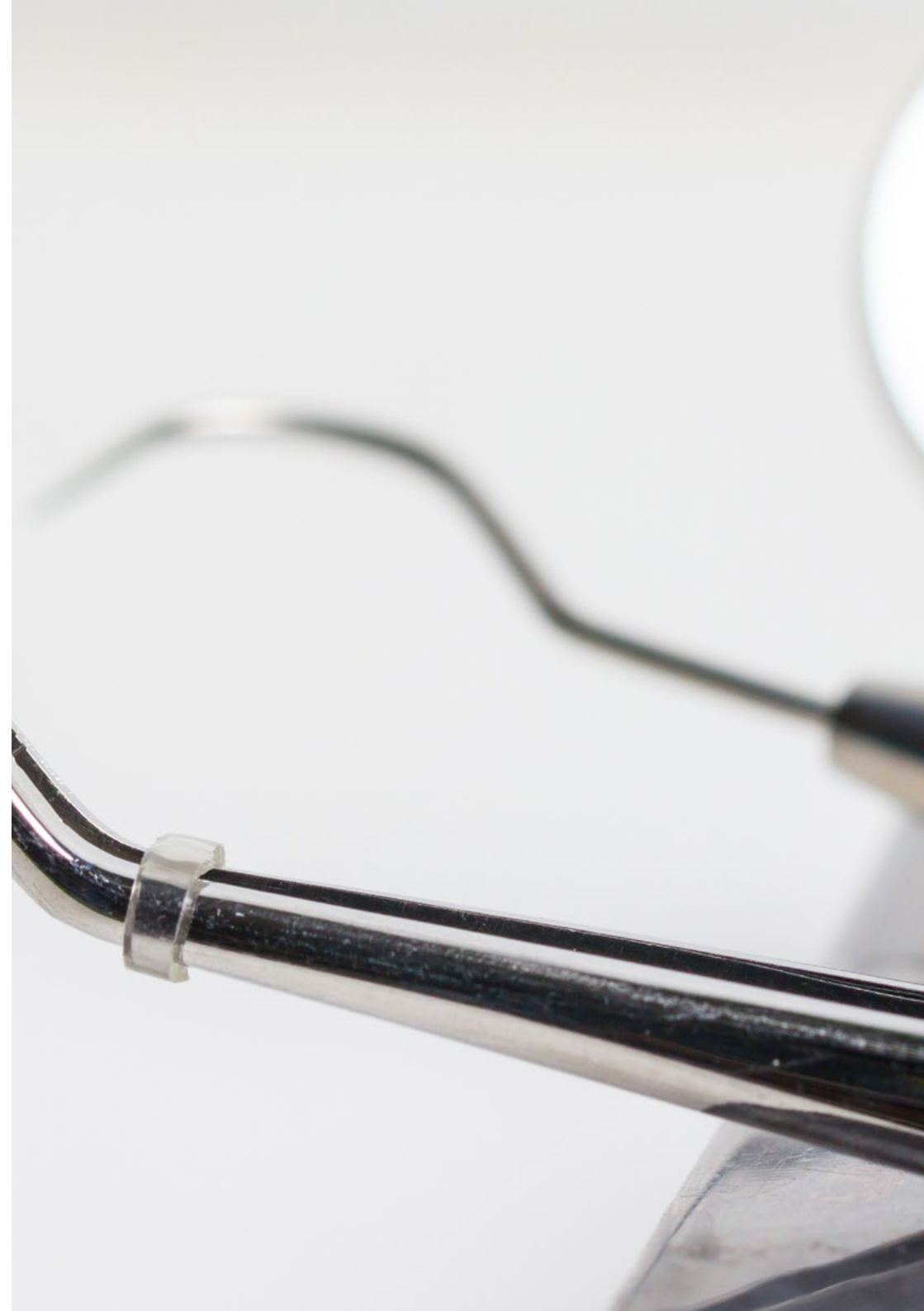


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*The Postgraduate Certificate in introduction to the Dentofacial Orthopedics includes the most complete and up-to-date scientific program on the market”*

## Module 1. Introduction to Orthopedics

- 1.1. Basic Concepts.
- 1.2. The Difference between Orthopedics and Orthodontics.
- 1.3. Type of Forces.
  - 1.3.1. Physiological Forces.
  - 1.3.2. Functional Forces.
  - 1.3.3. Orthodontic Forces.
  - 1.3.4. 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





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*This will provide key training to advance your career”*

05

# Methodology

This training 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. 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 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 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.



# 06

# Certificate

The **Postgraduate Certificate in Introduction to Dentofacial Orthopedics** guarantees you, besides the most rigorous and up-to-date training, access to a Postgraduate Certificate issued by **TECH Technological University**.



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*Successfully complete this training and receive your certificate without the hassle of travel or paperwork”.*

The **Postgraduate Certificate in introduction to the Dentofacial Orthopedics** includes the most complete 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 **La TECH Technological University**.

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

Title: **Postgraduate Certificate in Introduction to Dentofacial Orthopedics**

ECTS: 6

Nº Hours: **150 hours**.



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



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