

# Postgraduate Certificate

## Sagittal Growth Problems and How to Treat Them





## Postgraduate Certificate

### Sagittal Growth Problems and How to Treat Them

- » 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/sagittal-growth-problems-treat-them](http://www.techtute.com/us/dentistry/postgraduate-certificate/sagittal-growth-problems-treat-them)

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01

# Introduction

Good oral health is essential for any person, and, for this, all pathologies related to the jaw must be treated in time. With this specialization, the dentist will focus on the study of sagittal growth problems and how to treat them.





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*This is the most complete Postgraduate Certificate in Sagittal Growth Problems you can find. Don't hesitate any longer, join our group of students and train yourself to succeed”*

In this Postgraduate Certificate in Sagittal Growth Problems and How to Treat Them, the anteroposterior plane of the mandible and its possible malocclusions will be studied, paying special attention to the last spatial plane.

Therefore, both facial and dental anteroposterior anomalies will be defined to easily identify them and distinguish a sagittal bone problem from a dental one. The relationship between alterations in anteroposterior growth and the lower airways and their treatment will also be discussed, as well as how their treatment can influence the improvement of the air passage volume.

Likewise, a review of the prevalence of these malocclusions and facial biotypes will be made to check in which population groups one malocclusion or another is more likely to be found. An attempt will also be made to define the etiology of these growth disturbances.

Angle's classification of malocclusions will be studied, from Class I or normocclusion, in which both the occlusion and the bony bases are in norm, to a Class II malocclusion, both dental and skeletal, and the special features it presents, as well as the appliances indicated for its treatment. This program includes one of the most outstanding sections on the most indicated mandibular advancement appliances for Class II (skeletal), from the most commonly used ones such as the Hebst or Twin-Block, to the most innovative ones such as mandibular advancement with transparent aligners with the Invisalign system.

Furthermore, the student should also learn to identify skeletal and dental Class III malocclusion, so this malocclusion will be studied in detail with its particularities and its forms of treatment, as well as its limitations, since the treatment of skeletal Class III is the most complex that can be found in their profession.

Therefore, treatment methods will be explained, from an advanced maxillary traction with facial mask or mandibular growth control with chin rest, to the most effective forms of treatment in combination with surgery, such as the mini plates described by Le Clerk. Finally, habits in this type of malocclusion will be discussed, the effects they can have and the importance of correcting them in order to obtain success in our treatments.

This **Postgraduate Certificate in Sagittal Growth Problems and How to Treat Them** 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 sagittal growth problems
- ♦ 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
- ♦ The latest developments on sagittal growth problems
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies in sagittal growth problems
- ♦ 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 by taking this Postgraduate Certificate in Sagittal Growth Problems”*

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*This Postgraduate Certificate is the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge in Sagittal Growth Problems and How to Treat Them, you will obtain a qualification endorsed by TECH Technological University”*

The teaching staff includes professionals from the field of Dentofacial Orthopedics, who bring their 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 professionals 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 developed by recognized and experienced experts in the field of sagittal growth problems.

*Do not hesitate to take our training program and enhance your daily practice.*

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



# 02

# Objectives

This program in Sagittal Growth Problems and How to Treat Them 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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*Thanks to this program you will be able to specialize in sagittal growth problems”*



## General objectives

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- ◆ 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 the best treatment
- ◆ 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 them and allow the patient to develop correctly
- ◆ Be able to identify asymmetries and define their etiology





## Specific objectives

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- ◆ Learn about anteroposterior syndrome and its possible manifestations
- ◆ Learn about the relationship between anteroposterior problems and the lower airways
- ◆ Recognize the prevalence and etiology of these malocclusions and learn to distinguish between a bone problem and a dental problem
- ◆ Delve into normal occlusion or Class I to know which is the ideal occlusion
- ◆ Identify Class II malocclusion and its particularities
- ◆ Carefully analyze the treatment forms and appliances for skeletal and dental Class II
- ◆ Learn the latest methods of mandibular advancement with clear aligners with the Invisalign System
- ◆ Know Class III malocclusion, both osseous and dental
- ◆ Obtain the necessary knowledge to manage these malocclusions, as well as the most effective appliances to treat them
- ◆ Learn the use of appliances, such as the chin and face mask, which are very useful in these patients with skeletal Class III
- ◆ Apply skeletal Class III treatment with Bollard mini plates outlined by Le Clerk, which, despite being more invasive, obtains a highly significant result
- ◆ Review patient habits that influence these anteroposterior malocclusions

03

# Course Management

The teaching staff of the program includes leading experts in Dentofacial Orthopedics, who bring to this program the experience of their work. Additionally, other recognized specialists participate in its design and preparation which means that the program is developed in an interdisciplinary manner.



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*Leading professionals in the field have teamed up to teach you the latest advances in sagittal growth problems”*

## Management



### Dr. Merino González, Belén

- ♦ Dental Surgeon at Merino Orthodontics
- ♦ Dental Surgeon at Adelas Dental S.A.U., Torrelara Clinic and Zedent Clinic
- ♦ Management in the Surgery Department at Ziving Clinic
- ♦ Periodontist at SMY-CLINICS LIMITED and Vivanta
- ♦ Master's Degree in Surgery, Periodontics and Implantology from the University of Alcalá de Henares



### Merino González, Ramón

- ♦ Dentomaxillary Orthodontist at Merino Orthodontics
- ♦ Management in the Orthodontics and Orthopedics Department at Ziving Clinic
- ♦ Specialist in Orthodontics and Whitening for Los Robles Dental Clinic
- ♦ Preclinical Master's Degree from the I.U. Mississippi of the University of Houston
- ♦ Master's Degree in Orthodontics and Dentomaxillary Orthopedics from the University of Alcalá de Henares
- ♦ Certified Invisalign Platinum Provider title



## Professors

### Dr. Rodríguez Balaguer, Silvia

- ◆ Dentist at the Madrigal Clinic
- ◆ Orthodontist- Virginia Salvador Dental Clinic
- ◆ Degree in Dentistry from San Pablo-CEU University
- ◆ Master's Degree in Orthodontics and Dentofacial Orthopedics. Institute of Southern Mississippi
- ◆ Adjunct Professor in Dentistry Programs

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*A path to achieve education and professional growth that will propel you towards a greater level of competitiveness in the employment market”*

# 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 Certificate in Sagittal Growth Problems and How to Treat Them contains the most complete and up-to-date scientific program on the market”*

## Module 1. Sagittal Problem

- 1.1. Definition of Anteroposterior Syndrome
- 1.2. Relationship with the Airways
- 1.3. Prevalence
- 1.4. Etiology
- 1.5. Difference between Dental Class and Bone Class
- 1.6. Class I Malocclusion
- 1.7. Class II Malocclusion
  - 1.7.1. Particularities
  - 1.7.2. Herbst Appliance
  - 1.7.3. Twin-Block Apparatus
  - 1.7.4. Functional Appliances
  - 1.7.5. Constructive Bite
  - 1.7.6. ITMA (Invisalign®)
- 1.8. Class III Malocclusion
  - 1.8.1. Particularities
  - 1.8.2. Anterior Maxillary Traction
  - 1.8.3. Facial Mask
  - 1.8.4. Chin Support
  - 1.8.5. Protocols
  - 1.8.6. Le Clerk Bollard Miniplates
- 1.9. Associated Habits





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*A complete and well-developed syllabus that will propel you towards excellence in your profession in the simplest and most effective way”*

# 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.





*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

In a given situation, what should a professional do? 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 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. Dentists 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. 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.

*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 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 we have trained more than 115,000 dentists with unprecedented success, in all specialties regardless of the workload. 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 training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for 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.



### Educational Techniques and Procedures on Video

TECH introduces students to the latest techniques, the latest educational advances, and to the forefront of 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

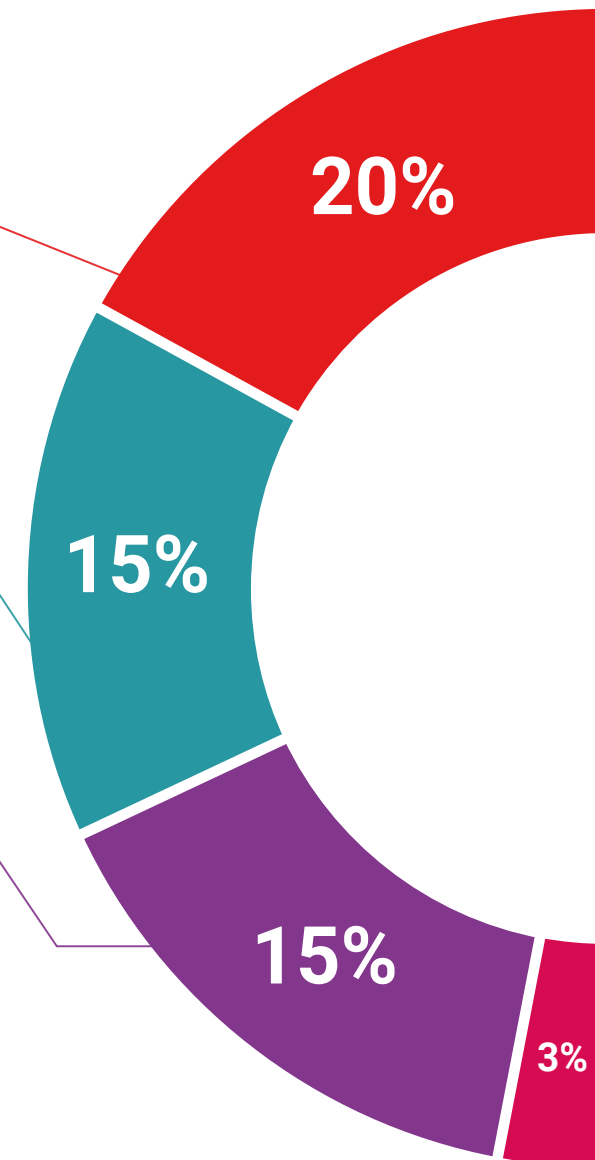
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

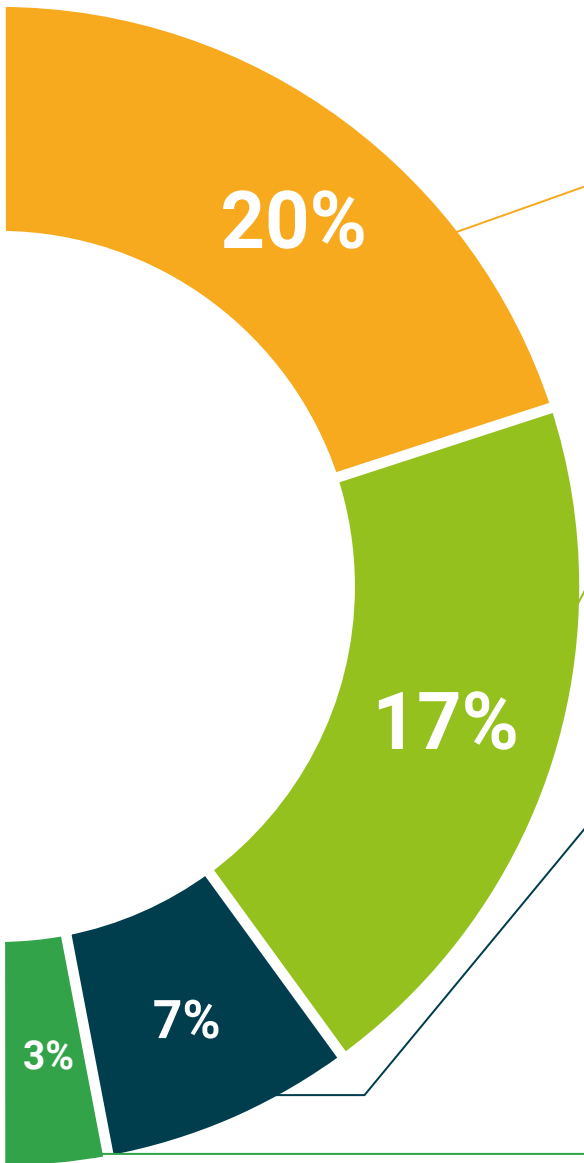
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### 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 suggesting that observing third-party experts can be useful.  
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 Certificate in Sagittal Growth Problems and How to Treat Them guarantees you, in addition to the most rigorous and updated training, access to a Postgraduate Certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in Sagittal Growth Problems and How to Treat Them** 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 Certificate** issued by **TECH Technological University** via tracked delivery\*.

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

Title: **Postgraduate Certificate in Sagittal Growth Problems and How to Treat Them**  
Official N° of hours: **150 h.**



\*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.

future

health confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

**tech** technological  
university

personalized service innovation

knowledge present

**Postgraduate Certificate**

Sagittal Growth

Problems and How

to Treat Them

development languages

virtual classroom

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

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