



Postgraduate Diploma

Diagnostics Applied to Dentofacial Orthopedics

» Modality: online

» Duration: 6 months

» Certificate: TECH Global University

» Credits: 24 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/dentistry/postgraduate-diploma/postgraduate-diploma-diagnostics-applied-dentofacial-orthopedics

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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 Diagnostics Applied to Dentofacial Orthopedics 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.

The Postgraduate Diploma in Diagnostics Applied to Dentofacial Orthopedics contains the most complete and up-to-date scientific program on the market. The most important features include:

- Development of practical cases presented by experts in Dentofacial 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 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 Diagnostics Applied to Dentofacial Orthopedics"

Introduction | 07 tech



This is the best refresher program on the online market for two reasons: in addition to updating your knowledge in Diagnostics Applied to Dentofacial Orthopedics, you will earn a Postgraduate Diploma issued by TECH"

It includes in its teaching staff professionals belonging to the field of Dentofacial Orthopedics, who contribute to this training 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 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 designed by renowned experts in the field of Dentofacial Orthopedics with extensive medical experience.

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

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







tech 10 | Objectives



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 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

Module 1. Introduction to Orthopedics

- 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 treatments
- Learn the importance of performing treatments in two phases
- Recognize the limits of treatment in orthopedics and the possibility of resorting to orthognathic surgery

Module 2. Growth

- Learn the fundamental concepts of craniofacial growth
- Recognize the different phases that occur during growth
- Understand the different accepted theories regarding skeletal growth
- Know and identify cleft lip and palate
- Learn the importance of performing orthopedic treatments when the patient is at the peak of growth

Module 3. Diagnosis

- Learn the chronology and times of eruption
- Recognize the possible abnormalities of tooth formation that can be found in patients
- Understand the anomalies in eruption and how to identify them in patients
- Be able to perform the analysis of the osseo-dental discrepancy and the Bolton discrepancy

- Know how to identify all the structures present in the orthopantomographies, as well as any abnormalities that may exist
- Be able to identify and analyze teleradiographs, and extract as much information as possible from them
- Learn how to take quality intraoral and extraoral photographs for case studies and monitoring
- Identify the latest 3D diagnostic images and the useful information obtained from them

Module 4. Cephalometrics

- Learn the basic concepts on which cephalometric studies are based
- Identify patients' current growth stage based on Hassel's studies
- Perform the most commonly used cephalometric analyses, such as those developed by Steiner, Ricketts, McNamara, and Jarabak, and learn how to interpret the results
- Recognize the use of overlays as a useful element to assess treatment progress
- Identify frontal cephalometry, its structures, and the useful information it provides
- Learn about wrist radiography for studying skeletal growth
- Be able to identify a comprehensive diagnostic picture of the patient's problems for detailed study





Management



Dr. Merino González, Belén

- Dental Surgeon at Merino Orthodontics
- Dental Surgeon at Adeslas 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



Course Management | 15 tech

Professors

Ms. Martínez Madero, Elena

- Orthodontist at Sanitas Milenium San Luis, Cuenca
- Orthodontist at Forex Dental Center



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





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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

Module 2. Growth

- 2.1. Definition
 - 2.1.1. Growth
 - 2.1.2. Development
 - 2.1.3. Translocalization
 - 2.1.4. Maturation
- 2.2. Regularities of Growth and Development
- 2.3. Process Complexity
- 2.4. Growth Rate of Different Body Parts
- 2.5. Craniofacial Growth Theories
- 2.6. Cranial Vault and Base Growth
- 2.7. Nasomaxillary Complex Growth
- 2.8. Labiopalatal Fissures
- 2.9. Jaw Growth
- 2.10. Peak Growth Treatment



Module 3. Diagnosis

- 3.1. Introduction to Diagnosis
- 3.2. Eruption Chronology
- 3.3. Formation Abnormalities
 - 3.3.1. Agenesis
 - 3.3.2. Supernumerary Teeth
 - 3.3.3. Mesiodens
- 3.4. Eruption Abnormalities
 - 3.4.1. Ectopic Eruption
 - 3.4.2. Included Teeth
 - 3.4.3. Retained Teeth
- 3.5. Osseodental Discrepancy
- 3.6. Bolton Discrepancy
- 3.7. Orthopantomography
- 3.8. Lateral Skull Teleradiography
- 3.9. Intraoral and Extraoral Photographs
- 3.10. 3D Imaging (CBCT, CT)

Module 4. Cephalometrics

- 4.1. Introduction to Cephalometry
- 4.2. Hassel's Growth Stages
 - 4.2.1. Initiation
 - 4.2.2. Acceleration
 - 4.2.3. Transition
 - 4.2.4. Deceleration
 - 4.2.5. Maturation
 - 4.2.6. Termination

- 4.3. Steiner's Cephalometric Analysis
- 4.4. Ricketts' Cephalometric Analysis
- 4.5. McNamara's Cephalometric Analysis
- 4.6. Jarabak's Cephalometric Analysis
- 4.7. Superpositions
- 4.8. Frontal X-Ray
- 4.9. Wrist X-Ray
- 4.10. Comprehensive Diagnosis







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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.



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:

- 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.



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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.



Methodology | 25 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 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

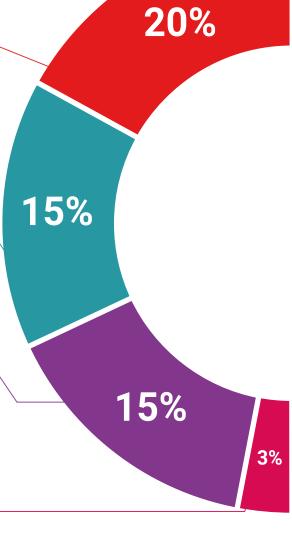
TECH introduces students to the latest techniques, the latest educational advances, and to the forefront of medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times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

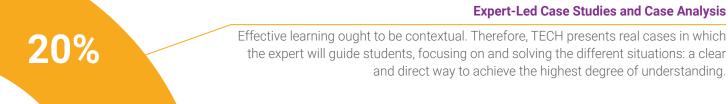
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".





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.





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



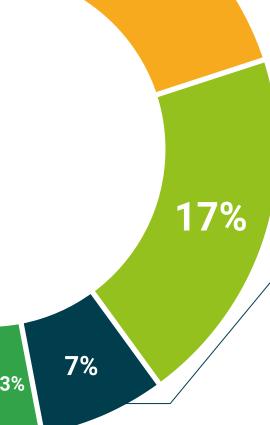
There is scientific evidence suggesting that observing third-party experts can be useful.

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.







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This program will allow you to obtain your **Postgraduate Diploma in Diagnostics Applied to Dentofacial Orthopedics** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: Postgraduate Diploma in Diagnostics Applied to Dentofacial Orthopedics

Modality: online

Duration: 6 months

Accreditation: 24 ECTS



Mr./Ms. ______ with identification document _____ has successfully passed and obtained the title of:

Postgraduate Diploma in Diagnostics Applied to Dentofacial Orthopedics

This is a program of 600 hours of duration equivalent to 24 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



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

tech global university



Postgraduate Diploma

Diagnostics Applied to Dentofacial Orthopedics

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 24 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Diploma

Diagnostics Applied to Dentofacial Orthopedics



