



Peri-implantitis and Mucogingival Surgery in Implantology

» Modality: online

» Duration: 6 months

» Certificate: **TECH Technological University** 

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/in/dentistry/postgraduate-diploma/postgraduate-diploma-peri-implantitis-mucogingival-surgery-implantology

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Today, Implantology is one of the most remarkable fields of dental knowledge, as its advances have improved the dental rehabilitation of many patients in recent years. However, its implementation is often associated with peri-implant problems that require surgical approach in many cases. This program is aimed at providing the professional with updated surgical techniques in implant dentistry.



### tech 06 | Introduction

Advances in dental implant techniques make these procedures safer every day, but pathological situations often occur as a result of the technique itself, and sometimes it is necessary to surgically address the area to reorient the treatment or resolve the complications.

The knowledge acquired in this program will allow the student to face working life from a more qualified position, giving them a clear advantage when it comes to finding a job, , since they will be able to offer the application of the latest technological and scientific advances in the field of Endodontics.

The fundamental justification of the program is, therefore, to train a professional with adequate knowledge, skills, attitudes, values and competencies, who is able to serve society by satisfying its health demands, both in terms of prevention, diagnosis and treatment, in an ethical, efficient and safe manner. This professional must appreciate the need for professional development and continuing education throughout life, be able to effectively utilize advances in knowledge and technology, and understand the central role of the patient in therapeutic decision making.

This **Postgraduate Diploma in Peri-implantitis and Mucogingival Surgery in Implantology** contains the most complete and up-to-date scientific program on the market. The most important features of the program include:

- Clinical cases presented by experts in the different dentistry specialties
- 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
- Novelties on techniques in Mucogingival Surgery in Implant Dentistry
- Algorithm-based interactive learning system for decision-making in the presented clinical situations
- With special emphasis on evidence-based medicine and research methodologies in implantology and periodontics
- Content that is accessible from any fixed or portable device with an Internet connection



Expand your knowledge through the Postgraduate Diploma in Mucogingival Peri-implantitis and Surgery in Implantology, in a practical way and adapted to your needs"

### Introduction | 07 tech



This Postgraduate Diploma may be the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in Peri-implantitis and Mucogingival Surgery in Implantology, you will obtain a Postgraduate Diploma endorsed by TECH Technological University"

Forming part of the teaching staff is a group of professionals in the world of Dentistry who bring to this training their work experience, as well as a group of renowned specialists, recognised by esteemed scientific communities.

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 program to train in real situations.

This program is designed around Problem Based Learning, whereby the student will must try to solve the different professional practice situations that arise during the course. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of radiology with extensive teaching experience.

The Postgraduate Diploma offers training in simulated environments, which provides an immersive learning experience designed to train for real-life situations.

It includes clinical cases to bring the program's degree as close as possible to the reality of care in dentistry.







### tech 10 | Objectives



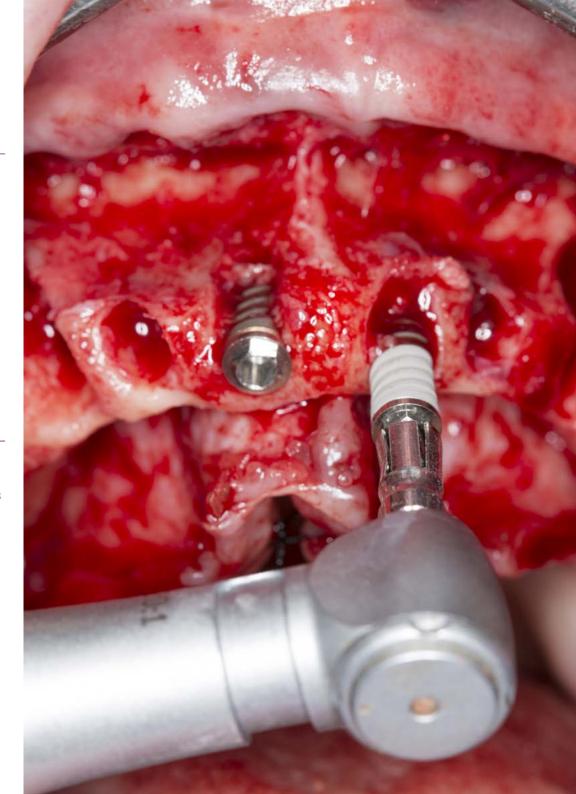
### **General Objectives**

- Update the theoretical and practical knowledge of the dentist in the different areas of periodontics and implantology, through evidence-based dentistry
- Promote work strategies based on a multidisciplinary approach to patients who are candidates for periodontal or implant therapy
- Encourage the acquisition of technical skills and abilities, through a powerful audiovisual system, and the possibility of development through online simulation workshops and/or specific training
- Encourage professional stimulation through ongoing education and research



### **Specific Objectives**

- Explain each of the pathologies and alterations that can affect the periodontium, as well as the available means for their diagnosis
- Describe the basic surgical procedures: Incisions, types of flaps, sutures.
- Learn about each of the pathologies and alterations that can affect the periodontium, as well as the available means for their diagnosis
- Define each of the diagnostic means to study patients susceptible of being rehabilitated with implants
- Explain one- and two-stage surgical procedures, prepare the surgical field and master sterilization protocols
- Know how to perform a complete periodontal and adjacent tissues examination



- Know how to perform and interpret a complete periapical series with parallelism technique
- Define systemic diseases that are related and may interfere with the management of periodontitis
- Explain bacterial plaque control methods and be able to motivate the patient in their use
- Master periodontal instrumentation techniques
- Establish in each patient a general prognosis of the periodontal disease and an individual prognosis of each affected tooth
- Define bone biological mechanisms in guided bone regeneration
- Perform the surgical techniques of sinus lift, ramus bone grafting and mandibular symphysis
- Interrelate Periodontics and Implantology with the patient's medical pathologies and the rest of the dental specialties, as well as to take samples
- Explain maintenance techniques, as well as peri-implant alterations and their treatment
- Perform regenerative procedures after extraction of impacted periodontal insertion of included teeth
- Apply pre-implantological alveolar ridge augmentation techniques with both hard and soft tissue regeneration
- Describe the different soft tissue management techniques used during implant and regenerative surgery



Seize the opportunity and take the step to get up-to-date on the latest developments in peri-Implantitis and the mucogingival surgical approach in implantology"





#### International Guest Director

Dr. Leena Palomo is an eminent educator, clinician and dental researcher, internationally recognized. With a solid academic background and a career marked by excellence, she stands out as a leading figure in Periodontology, committed to innovation, research and excellence in patient care. She currently holds a senior position as Chair of the Arthur Ashman Department of Periodontology and Implant Dentistry, one of the leading programs in periodontology, whose primary mission is to educate undergraduate and graduate students; engage in clinical and laboratory and provide comprehensive and optimal periodontal care to the people of New York. His research focus has centered on vital areas such as women's health, aesthetics and quality of life. Of particular note is her leadership in collaborating with the Cleveland Clinic and the Center for Specialized Women's Health. In addition, she has played a key role in periodontal research and treatment for rheumatoid spectrum diseases, speaking at numerous national and international conferences on Sjögren's and Rheumatology, as well as publishing her wellness findings in multidisciplinary and interprofessional journals. His commitment to educational excellence and mentoring has led numerous dental and medical students to achieve recognition for the quality of their theses. In this context, Dr. Palomo's educational philosophy emphasizes the importance of curiosity and constant questioning to drive discovery and continuous learning in the field of contemporary periodontology. Likewise, her outstanding career in the field of Dentistry and Periodontology has been rewarded with several awards for her work and research. Some examples are the "Strides in Science", American Association of Dental Research November Researcher (2012), and the American Academy of Periodontology, Board of Trustees, Special Citation Award (2019). She also actively collaborates with the American Academy of Periodontology (AAP) Foundation to improve the dental health of society through the dissemination of periodontal diseases and their therapies.



### Dr. Leena Palomo

- Chair of the Arthur Ashman Department of Periodontology and Implant Dentistry.
- Professional Master's Degree in Periodontology from Case Western Reserve University
- Bachelor of Science in Dentistry from Case Western Reserve University. Awards:
- Strides in Science," American Association of Dental Research November Researcher (2012)
- American Academy of Periodontology, Board of Trustees, Special Citation Award (2019)
- Member of:
- North East Society of Periodontology
- American Board of Periodontology
- Levi Award, American Academy of Periodontology Foundation
- College of Dentistry
- American Academy of Periodontology (AAP) Foundation



Thanks to TECH, you will be able to learn with the best professionals in the world"

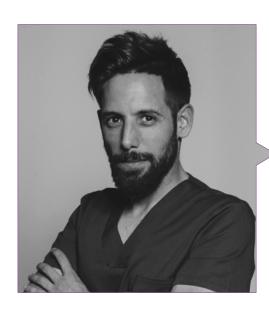
### tech 14 | Course Management

#### Management



#### Dr. Martínez Gómez, Berta

- Degree in Dentistry from the University of Barcelona
- Master's Degree in Comprehensive Periodontics C.G. Ongoing Training with Prof. Raúl G. Caffesse
- Master's Degree in Implantology and Prosthodontics CIDESID
- Postgraduate course in Endodontics Dr. Hipólito Fabra
- Diploma in Endodontics CIDESID
- Advanced Multidisciplinary Course. Dr. Iñaki Gamborena, San Sebastián, Spain
- Course in Prosthodontics and Dental Aesthetics CIDESID
- Layering course on posterior and anterior teeth by CIDESID
- Theoretical-practical course of periodontal surgery: Periodontal and Peri-implant tissue reconstruction. Professor. Massimo de Sanctis Dr. Fabio Vignoletti. Italian Society of Dental Training. Forli, Italy
- Collaborating Professor Master's Degree in Comprehensive Periodontics C.G. Training. Professor. Dr. Raúl Caffesse
- Private practice dedicated to Periodontics and Conservative Dentistry
- National and international communications
- Member of the SEPA and Fellowship in Bone Regeneration. Dr. Carlo Tinti. Brescia. Italy



#### Dr. Bellver Fernández, Ricardo

- Degree in Dentistry Cardenal Herrera University
- Master's Degree in Implantology and Oral Surgery Cardenal Herrera University
- Master's Degree in Dental Sciences University of Valencia
- Master's Degree in Comprehensive Periodontics C.G. Ongoing Training
- Collaborating Professor Master's Degree in Comprehensive Periodontics C.G. Training, Professor. Dr. Raúl Caffesse
- Collaborating Professor Master's Degree in Oral Implantology, Cardenal Herrera University
- Surgical training at the Maxillofacial Service of the La Fe University Hospital, Maxillofacial and Stomatological Service unit, outpatient and operating rooms, children's and adult unit. Led by Dr. MC Baquero de la Hermosa
- Member of the Spanish Society of Prosthetics, Stomatology and Aesthetics (SEPA)
- Fellowship in bone regeneration Dr. Carlo Tinti. Brescia, Italy
- Training in Mucogingival Surgery Dr. Giovani Zucchelli at the University of Bologna. Italy
- Training in Bone Regeneration Dr. Istvan Urban. Budapest, Hungary
- Various publications in pubmed, national and international speaker
- Private Practice dedicated to Periodontics, Implants and High Complexity Oral Rehabilitation

### tech 16 | Course Management

#### **Professors**

#### Dr. García-Sala, Fernando

- Degree in Dentistry
- Associate Professor, University of Valencia, Department of Stomatology
- Master's Degree in Advanced Oral Implantology from the European University of Madrid
- Certificate in Advances in Implantology and Oral Rehabilitation from the New York University College of Dentistry New York, USA
- Professor and codirector of the Master's Degree in Advanced Oral Implantology at the European University of Valencia Valencia, Spain
- Professor of Oral Surgical Pathology European University of Valencia. Valencia, Spain
- ITI (International team Implantology) member
- Member of the Spanish Society of Prosthetics, Stomatology and Aesthetics (SEPES)
- Fellowship in bone regeneration with Dr Carlo Tinti Brescia, Italy
- Training in Dr Zucchelli Mucogingival Surgery at the University of Bologna Bologna, Italy
- Training in Periodontal Regeneration, Dr Cortellini Florence, Italy
- Training in Bone Regeneration, Dr Urban Budapest, Hungary
- Various publications in JCR, national and international speaker
- Private Practice Surgery, Periodontics and Implants

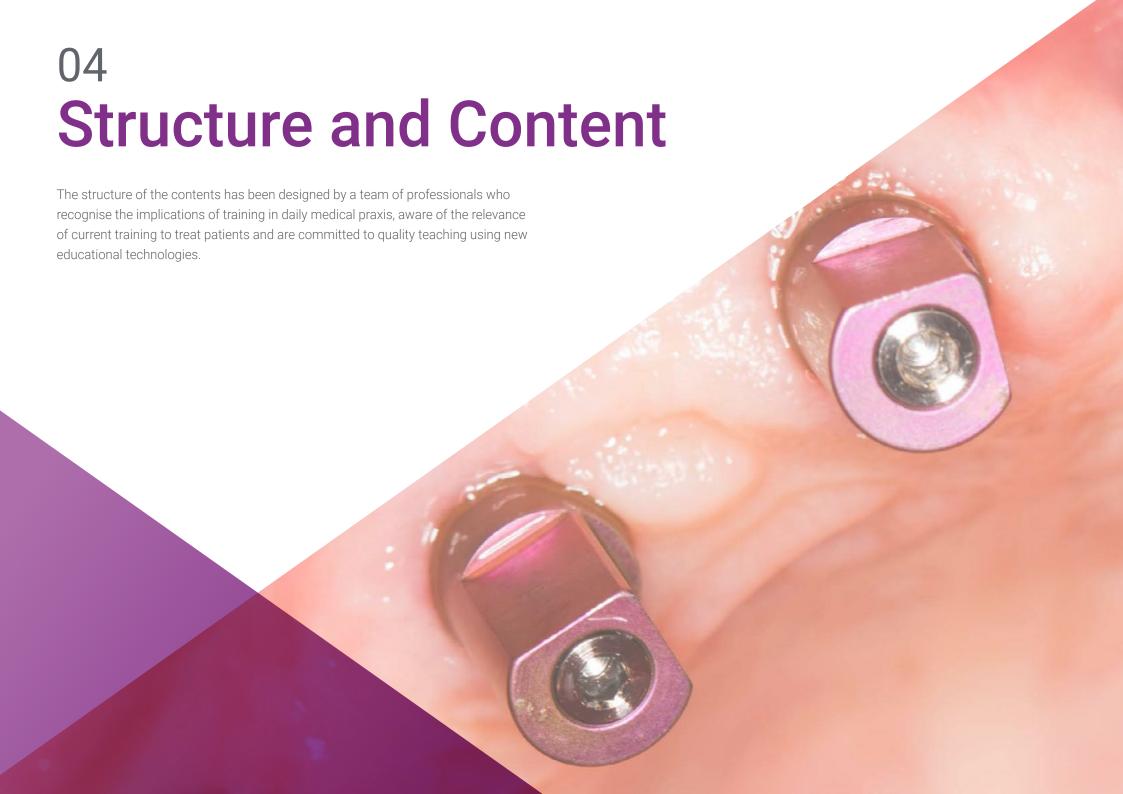




### Course Management | 17 tech

#### Dr. Hernández Cobo, Álvaro

- Degree in Dentistry at the University of Alfonso X el Sabio. Madrid
- University specialist in implants by the Miguel Hernández University. Elche
- Master's Degree in Comprehensive Periodontics C.G. Ongoing Training. Professor. Raúl G. Caffesse
- Master's Degree in Occlusion and Prosthodontics from the European School of Oral Rehabilitation Implantology and Biomaterials
- Advanced course in aesthetic mucogingival surgery Dr. Giovanni Zucchelli
- Advanced multidisciplinary course Dr. Iñaki Gamborena
- Private practice specializing in periodontics, implants and high complexity oral rehabilitation
- Collaborating Professor of the Master's Degree in Periodontics Dr. Raúl Caffesse at CG. Training

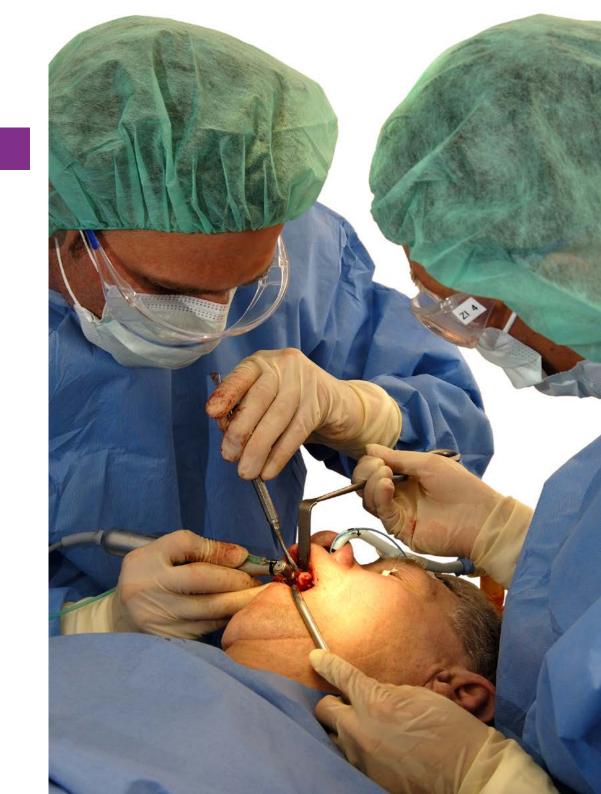




### tech 20 | Structure and Content

# **Module 1.** Periodontal Reconstructive Treatment III: Periodontal and Mucogingival Plastic Surgery Basic Principles

- 1.1. Etiopathogenesis and Prevalence of Mucogingival Disorders
  - 1.1.1. Eruption Pattern
  - 1.1.2. Fenestration and Dehiscence
  - 1.1.3. Precipitating and Predisposing Factors
  - 1.1.4. Prevalence of Gingival Recession
- 1.2. Diagnosis and Indications in Mucogingival Surgery
  - 1.2.1. Diagnosing a Mucogingival Problem
  - 1.2.2. Performance Criteria in Pediatric, Young and Adult Patients
- 1.3. Gingival Recession
  - 1.3.1. Classification
- 1.4. Prognosis and Predetermination in Root Canal Veneering
- 1.5. Surgical Technique Selection
  - 1.5.1. Criteria for Choosing a Surgical Technique
  - 1.5.2. Anatomical Factors that Affect Prognosis
  - 1.5.3. Scientific Evidence
  - 1.5.4. Variables to be Taken Into Account Depending on the Technique
- 1.6. Root Surface Treatment
- 1.7. Amelogenins in Mucogingival Surgery
- 1.8. Surgical Principles in Periodontal Plastic Surgery
  - 1.8.1. Incisions and Bevels
  - 1.8.2. Flaps
- 1.9. Sutures, Surgical Instruments and Postoperative Care
  - 1.9.1. Sutures, Materials, Characteristics, Knots and Suturing Techniques
  - 1.9.2. Surgical Instruments in Mucogingival Surgery
  - 1.9.3. Postoperative Care



#### Module 2. Implantology and Osseointegration

- 2.1. Historical Review and Generic Terminology of Dental Implants
  - 2.1.1. Evolution of Implantology up to the 21st Century
  - 2.1.2. Generic Terminology of Dental Implants: Components and Nomenclature
- 2.2. Biology of Osseointegration
  - 2.2.1. Inflammatory Phase
  - 2.2.2. Proliferative Phase
  - 2.2.3. Maturation Phase
  - 2.2.4. Contact and Remote Osteogenesis
- 2.3. Anatomy in Implantology
  - 2.3.1. Anatomy of the Upper Jaw
  - 2.3.2. Anatomy of the Mandible
- 2.4. Histology of Bone Tissue, Periodontium and Peri-implant Tissue
- 2.5. Bone Availability in Implantology
- 2.6. Incision Techniques in Implantology
  - 2.6.1. Incisions in a Total Edentulous Patient
  - 2.6.2. Incisions in a Partial Edentulous Patient
  - 2.6.3. Incisions in the Aesthetic Sector
  - 2.6.4. Incisions in Bone Guided Regeneration Techniques
  - 2.6.5. Flapless
- 2.7. Surgical Instruments Detachment, Separation and Bone Regularization
- 2.8. Drilling Techniques in Implantology
  - 2.8.1. Drills and Components of the Surgical Trays
  - 2.8.2. Sequential Drilling
  - 2.8.3. Biological Drilling
- 2.9. Single-stage Implants and Two-stage Implants

#### Module 3. Mucogingival Surgery in Implant Dentistry

- 3.1. Morphologic Differences Between Periodontal and Peri-Implant Soft Tissues
  - 3.1.1. Morfoligical
  - 3.1.2. Vascularization
- 3.2. Influence of Gingival Biotype and Keratinized Gingiva in Implant Dentistry
  - 3.2.1. Fine Biotype in Implant Dentistry
  - 3.2.2. Coarse Biotype in Implant Dentistry
  - 3.2.3. Risk Areas Implant-Soft Tissue Junction
  - 3.2.4. Keratinized Gingiva vs. Mucosa
- 3.3. Tissue Reconstruction Simultaneous to Implant Placement
  - 3.3.1. Tissue Reconstruction Simultaneous to Implant Placement immediately After an Extraction
    - 3.3.1.1. Clinical Benefits vs. Biological Limitations
  - 3.3.2. Tissue Reconstruction Simultaneous to Implant Placement Delayed After an Extraction
- 3.4. Delayed Tissue Reconstruction After Placing an Implant
  - 3.4.1. Delayed Tissue Reconstruction After an Implant Placement During Surgical Reopening Second Phase
  - 3.4.2. Delayed Tissue Reconstruction After Placing an Implant Approach to Esthetic Implant Failure
- 3.5. Surgical Defects
  - 3.5.1. Alveolar Ridge Preservation Techniques
    - 3.5.1.1. Collagen Matrix
    - 3.5.1.2. Alveolar Sealing by Free Grafting
    - 3.5.1.3. Alveolar Sealing by Pedicle Grafting of the Palate
    - 3.5.1.4. Temporary Alveolar Sealing (Bio-Col)
    - 3.5.1.5. Combined Soft-Tissue-Bone Graft Tuber-Trephine Technique
  - 3.5.2. Surgical Techniques for Obtaining Keratinized Gingiva Over Implants
    - 3.5.2.1. Palatal to Vestibular Fibromucosa Displacement
    - 3.5.2.2. Interproximal Pedicles
    - 3.5.2.3. Vestibular Pocket Pedicles
    - 3.5.2.4. Free Grafting on Implants
  - 3.5.3. Surgical Techniques to Obtain Connective Tissue Volume
    - 3.5.3.1. Envelope Connective Tissue Grafting
    - 3.5.3.2. Pedicle Graft of the Palate

### tech 22 | Structure and Content

#### Module 4. Periimplantitis

- 4.1. Structural Differences Between Peri-Implant and Periodontal Tissues
  - 4.1.1. Tooth-Gum vs. Implant-Gum Interface
  - 4.1.2. Connective Tissue
  - 4.1.3. Vascularization
  - 4.1.4. Biological Space
  - 4.1.5. Microbiology:
- 4.2. Mucositis
- 4.3. Mucositis vs. Peri-Implantitis
- 4.4. Peri-Implantitis
  - 4.4.1. Risk Factors
- 4.5. Treatment of Peri-Implant Diseases
  - 4.5.1. Mucositis Treatment
  - 4.5.2. Peri-Implantitis Treatment
  - 4.5.3. Non-surgical Treatment
  - 4.5.4. Surgical Treatment
- 4.6. Maintenance of Peri-Implant Diseases





### Structure and Content | 23 tech

#### Module 5. Maintenance of Periodontal and Implant Dentistry Patients

- 5.1. Maintenance of Periodontal Patients
  - 5.1.1. Periodontal Maintenance in Patients with Gingivitis
  - 5.1.2. Periodontal Maintenance in Patients with Periodontitis
  - 5.1.3. Objectives of Periodontal Maintenance Therapy
  - 5.1.4. Risk Assessment
  - 5.1.5. Periodontal Maintenance Therapy in the Clinic
    - 5.1.5.1. Examination, Reassessment and Diagnosis
    - 5.1.5.2. Motivation, Reinstruction and Instrumentation
    - 5.1.5.3. Site-Specific Treatment
    - 5.1.5.4. Establishing Periodic Maintenance Intervals
- 5.2. Maintenance of Implant Patients
  - 5.2.1. Maintenance of Patients with Dental Implants
  - 5.2.2. Objectives of Implant Dentistry Maintenance Therapy
  - 5.2.3. Diagnosis of the Peri-Implant Problem5.2.3.1. Bleeding, Suppuration, Probing Depth, Radiographic Interpretation, Mobility
  - 5.2.4. Preventive and Therapeutic Strategies





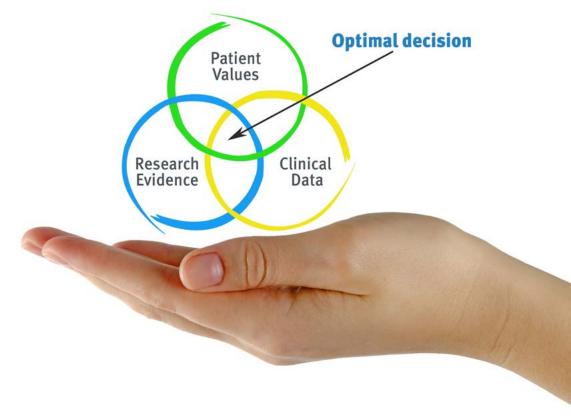


### tech 28 | Methodology

#### 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.





### 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 | 31 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**

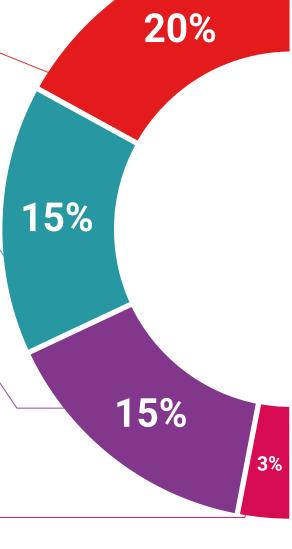
TECH introduces students to the latest techniques, the latest educational advances, and to the forefront of medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times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

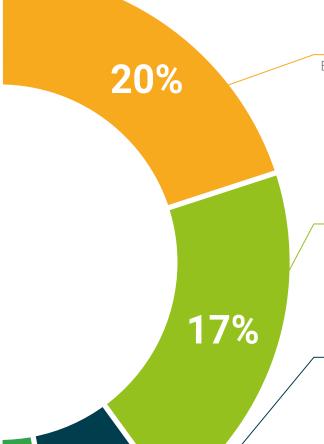
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".





#### **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.



7%

#### **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.







### tech 34 | Certificate

This **Postgraduate Diploma in Peri-implantitis and Mucogingival Surgery in Implantology** contains the most complete and up-to-date scientific on the market.

After the student has passed the assessments, they will receive their corresponding Posgraduate Diploma issued by **TECH Technological University** via tracked delivery\*

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

Title: **Postgraduate Diploma inPeri-implantitis and Mucogingival Surgery in Implantology** Official N°. of Hours: **450 h.** 



<sup>\*</sup>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.



## Postgraduate Diploma

Peri-implantitis and Mucogingival Surgery in Implantology

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