



# Postgraduate Diploma

Prosthesis and Pre-Prosthetic Dental Surgery

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/dentistry/postgraduate-diploma/postgraduate-diploma-prosthesis-pre-prosthetic-dental-surgery

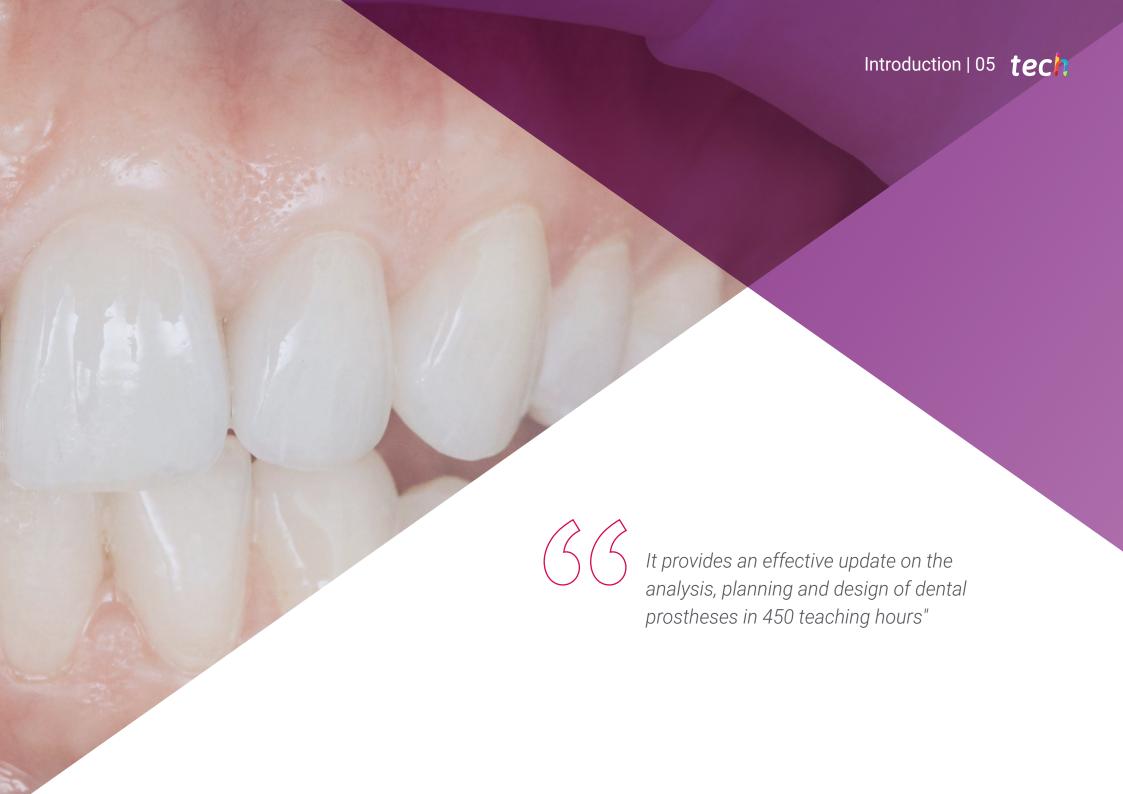
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# tech 06 | Introduction

In recent years, the improvement of surgical techniques has made the procedures in Dental Preprosthetic Surgery have evolved, obtaining much more accurate and effective results. In this way, from the study process to the design, manufacture of parts, oral preparation and implantation culminate with the satisfaction and fulfillment of the patient's expectations and improve their aesthetic and physical health.

A whole therapeutic journey that involves a mastery of the techniques, materials and tools used for the development of dental pieces and the approach to the main pathologies associated with it. Focusing on this field, TECH has developed this university program completely online and elaborated by a team of dentists with a magnificent clinical career in Prosthetics and Dental Pre-Prosthetics.

An educational journey of 450 teaching hours, which will lead the graduate to delve from the first moment in the creation of an adequate clinical history, anamnesis, imaging tests and definitive diagnosis. In addition, thanks to the video summaries of each topic, the videos in detail, the simulations of clinical cases and the specialized readings, the graduate will delve in a much more dynamic way into the aesthetic dental rehabilitation, the materials for the preparation of the Prosthesis itself, concluding with the main pathologies and complications derived from the Dental Prosthesis.

Also, thanks to the *Relearning* method, based on the reiteration of the highlighted contents, the students will obtain a solid base of the concepts approached and reduce the hours of memorization.

An excellent opportunity for updating through a flexible program that allows the professional to access the syllabus at any time of the day and from a digital device (cell phone, tablet or computer) with an Internet connection. In this way, without the need to go to an on-site center, or to have classes with scheduled times, the dentist has greater freedom to self-manage their study time and study a quality Postgraduate Diploma.

This **Postgraduate Diploma in Prosthesis and Pre-Prosthetic Dental Surgery** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of case studies presented by experts in Dental Prosthesis, Implantology and Oral Rehabilitation
- 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
- Practical exercises where self-assessment can be used to improve learning
- Its special emphasis on innovative methodologies
- 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



An educational option that allows you to reconcile your professional life with an advanced university program"



Get the most current keys to soft tissue management care, selection of impression materials and techniques for optimal restoration"

The program's teaching staff includes professionals from the field who contribute their work experience to this educational 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 the professional must try to solve the different professional practice situations that arise throughout the program. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

You will get in just 6 months a complete update in Prosthetics and Dental Pre-Prosthetic Surgery.

Go deeper whenever you want, from your digital device in subprosthetic stomatitis, fissured epulis and peri-implantitis.







# tech 10 | Objectives



# **General Objectives**

- Develop your knowledge of anatomy, physiology and orofacial pathology in order to make accurate diagnoses and design appropriate treatment plans
- Develop skills in the performance of clinical examinations and interpretation of data for an accurate diagnosis and optimal treatment plan
- Update knowledge in the use of dental materials, clinical and laboratory techniques in the design of prostheses with high physiological and aesthetic performance
- Acquire knowledge in the prevention and treatment of complications related to dental prosthetics and occlusion
- Understand the importance of interdisciplinary collaboration for the achievement of ideal results
- In-depth knowledge of the latest clinical and digital trends in the field of oral rehabilitation



You will be up to date on the latest maintenance protocols for implant-supported prostheses"





# **Specific Objectives**

### Module 1. Provisional Prosthesis

- Detail the different aspects of dental Prosthesis, from the biomechanical principles to the fabrication steps
- Learn about the classification and indications of dental prostheses, the concepts of retention, support and stability, the fundamentals of classifications in removable and mixed partial prostheses, and the analysis, planning and design of removable partial and total prostheses
- Break down topics such as the elements that make up the removable partial prosthesis, the description of the prosthetic and anatomical equator, the principles of planning and design in the different types of prostheses
- Delve into the concept of biostatic preparation and the different types of biostatic preparations of the mouth in partial and total edentulous, and the steps in the preparation of prosthetic appliances
- Provide a comprehensive update on dental prosthesis and the processes involved in their design and fabrication

### Module 2. Fixed Prosthesis

- Delve into the different preparations of teeth for fixed restorations, including the previous restorations for each type of preparation and their indications
- Delve into inlays in fixed prosthesis, the physical principles that should govern these
  preparations and their corresponding restorations, as well as the indications and
  contraindications for each type of preparation

- Approach the restoration of the endodontic tooth with fixed prosthesis, the concept of provisional crown, its design and preparation according to the case
- Strengthen the concept of gingival retraction, the principles that govern it, the indications and contraindications, as well as the procedures for its implementation
- Analyze the BOPT technique and cementation in fixed and provisional restauration

# Module 3. Pre-Prosthetic Surgery. Pathologies and Complications Derived from Dental Prosthesis

- Delve into the knowledge of the signs and symptoms of the different paraprosthetic lesions and the clinical and radiological tests necessary for an early and correct diagnosis
- Delve into the pathologies and complications that can arise from the use of dental prosthesis
- Update knowledge on the clinical protocols necessary to prevent and treat these pathologies effectively
- Emphasize in the importance of radiological clinical follow-up of rehabilitated patients, as well as the maintenance of prosthetic devices to minimize the occurrence of complications related to these





# tech 14 | Course Management

# Management



# Mr. Ruiz Agenjo, Manuel

- Director of the School of Higher Vocational Training in Dental Prosthesis
- Judicial expert for dental prosthesis awarded by the Basque Government
- Specialized in Oral Rehabilitation and Aesthetics
- Degree in Dentistry from CESPU University
- Degree in Dental Prosthetics from CESPU University

### **Professors**

# Dr. Ruiz Agenjo, Miguel Ángel

- Medical Director of the Dental Clinic Miguel Angel Ruiz Agenjo
- Specialist in Functional Design of Prostheses, Fixed Prostheses and Implant-Supported Prostheses
- Vice-president of the Illustrious College of Dentists and Stomatologists of Cantabria
- Degree in Stomatology from the Complutense University of Madrid
- Degree in Medicine and Surgery from the University of Cantabria
- Member of the scientific societies SEPES, SEPA and AEDE

### Ms. Sánchez Santillán, Raquel

- Oral Surgeon and Periodontist at the Andrea Ruiz Dental Clinic
- Specialist in Endodontics
- Master's Degree in Surgery, Periodontics and Implantology at the University of Mississippi
- Degree in Dentistry at the University Alfonso X El Sabio
- Higher Technician in Dental Prosthesis



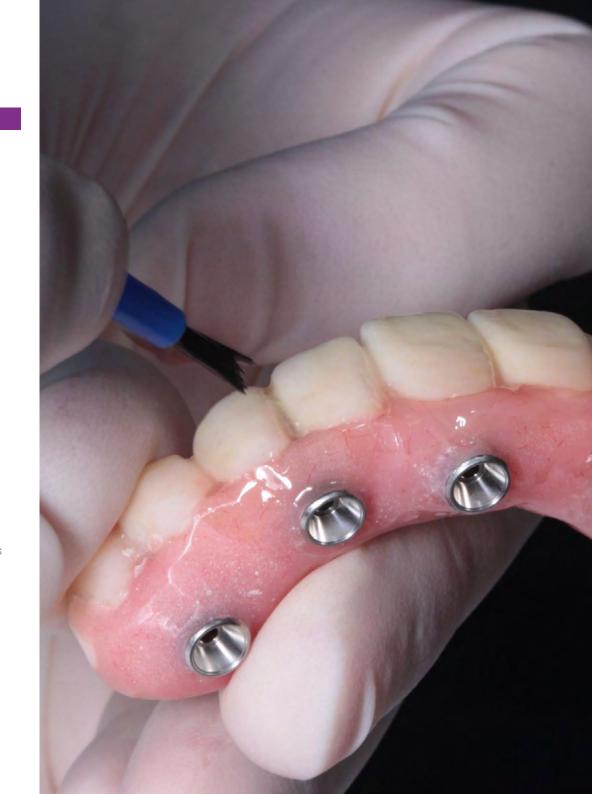




# tech 18 | Structure and Content

## Module 1. Provisional Prosthesis

- 1.1. Classification and Indications
  - 1.1.1. Total Removable Prosthesis
  - 1.1.2. Parcial Removable Prosthesis
  - 1.1.3. Indications
- 1.2. Biomechanical Principles of Prosthesis
  - 1.2.1. Load and Force Distribution in the Mouth
  - 1.2.2. Mechanisms of Stability and Retention of Removable Prosthesis
  - 1.2.3. Materials and Techniques Used for the Fabrication of Removable Prosthesis
- 1.3. Retention, Support and Stability in Prosthesis. Types and Factors that Determine Them
  - 1.3.1. Types of Retention
  - 1.3.2. Factors that Influence the Retention of the Prosthesis
  - 1.3.3. Types of Support: Mucosal, Dentinal, Mixed
  - 1.3.4. Factors Influencing the Support of the Prosthesis
  - 1.3.5. Stability of the Prosthesis: Definition and Factors that Influence It
- 1.4. Basics of the Classifications in Removable Partial Prosthesis. Mixed Prosthesis
  - 1.4.1. Classifications in Removable Partial Prosthesis
  - 1.4.2. Mixed Prosthesis: Concept and Applications
  - 1.4.3. Indications for Mixed Prosthesis
- 1.5. Analysis, Planning and Design in Total and Partial Removable Prosthesis
  - 1.5.1. Clinical and Radiographic Analysis of the Patient
  - 1.5.2. Planning and Design of the Complete and Partial Removable Prosthesis
  - 1.5.3. Impression Methods and Elaboration of the Working Model
- 1.6. Elements that Integrate the Removable Partial Prosthesis. Basis. Connectors. Retainers
  - 1.6.1. Basis: Types, Materials and Design
  - 1.6.2. Connectors: Types, Materials and Design
  - 1.6.3. Retainers: Types, Materials and Design



- 1.7. Description of the Prosthetic and Anatomical Equator
  - 1.7.1. Concept of Prosthetic and Anatomical Equator
  - 1.7.2. Methods for Locating the Prosthetic Equator
  - 1.7.3. Importance of the Prosthetic Equator in the Aesthetics and Function of the Prosthesis
- 1.8. Principles of Planning and Design in the Different Classes of Prosthesis According to the Functional and Topographical Classifications. Prosthesis Design in Intercalary and Free-End Cases
  - 1.8.1. Functional and Topographical Classifications of Prosthesis
  - 1.8.2. Prosthesis Design in Intercalary and Free-End Cases
  - 1.8.3. Aesthetic and Functional Considerations in the Design of Removable Prosthesis in Patients with Specific Conditions, such as the Presence of Braces or Prominent Alveolar Ridges
- 1.9. Biostatic Preparation
  - 1.9.1. Definition and Concept of Biostatic Preparation in Removable Prosthesis
  - 1.9.2. Importance of the biostatic preparation to guarantee the oral health and stability of the prosthesis
  - 1.9.3. Techniques and Materials Used in the Biostatic Preparation of the Patient's Mouth
  - 1.9.4. Types of Biostatic Preparations for Removable Prosthesis in Partial Edentulous Patients
  - 1.9.5. Special Considerations for the Biostatic Preparation in Total Edentulous Patients
  - 1.9.6. Preparation of the Mouth for Implant-Supported Removable Prosthesis
- 1.10. Steps in the Fabrication of Prosthetic Appliances
  - 1.10.1. Stages in the Process of Fbrication of Removable Prosthesis, from Impression Taking to Delivery to the Patient
  - 1.10.2. Techniques and Material Used in the Fabrication of Removable Prosthesis
  - 1.10.3. Considerations for the Selection of the Right Type of Removable Prosthesis Suitable for Each Patient

### Module 2. Fixed Prosthesis

- 2.1. Different Tooth Preparations for Fixed Restorations
  - 2.1.1. Total Crown Preparation: Technique and Requirements for its Use
  - 2.1.2. Partial Crown Preparation: Indications and Advantages
  - 2.1.3. Preparation of Dental Veneers: Techniques and Materials Used
- 2.2. Preliminary Restorations for Each of the Preparations and their Indications
  - 2.2.1. Inlays and Onlays: Indications and Differences Between the Two Types of Restorations
  - 2.2.2. Dental Bridges: Types and Materials Used in Their Fabrication
  - 2.2.3. Dental Crowns: Materials and Fabrication Techniques
- 2.3. Inlays and Onlays in Fixed Prosthesis: Concept and Types
  - 2.3.1. Ceramic Inlays: Advantages and Disadvantages
  - 2.3.2. Metal Inlays: Materials Used and Processing Techniques
  - 2.3.3. Composite Inlays: Indications and Contraindications
- 2.4. Restoration of the Endodontic Tooth with Fixed Prosthesis
  - 2.4.1. Preparation and Design of Restorations for Endodontic Teeth
  - 2.4.2. Use of Intraradicular Posts in the Restoration of Endodontic Teeth
  - 2.4.3. Techniques for the Selection of Restorative Materials in Endodontic Teeth
- 2.5. Physical Principles that Should Govern these Preparations and Their Corresponding Restorations
  - 2.5.1. Dental Adhesion: Techniques and Materials Used
  - 2.5.2. Dental Aesthetics: Factors to be Taken into Account in Aesthetic Restorations
  - 2.5.3. Dental Occlusion: Importance of Occlusion in Dental Preparation and Restoration
- 2.6. Indications and Contraindications for Each Type of Preparation
  - 2.6.1. Indications and Contraindications of Dental Crowns
  - 2.6.2. Indications and Contraindications of Dental Veneers
  - 2.6.3. Indications and Contraindications of Bridges on Teeth

# tech 20 | Structure and Content

- 2.7. Temporary Crown. Design and Preparation According to the Case
  - 2.7.1. Importance of the Temporary Crown in Dental Preparation and Restoration
  - 2.7.2. Design and Materials Used in the Preparation of Temporary Crowns
  - 2.7.3. Techniques for the Preparation of the Temporary Crown
- 2.8. Gingival Retraction, Principles that Govern It, Indications and Contraindications. Procedures for its Realization
  - 2.8.1. Importance of the Gingival Retraction in Dental Preparation and Restoration
  - 2.8.2. Techniques for Gingival Retraction: Chemical and Mechanical
  - 2.8.3. Indications and Contraindications of Gingival Retraction
- 2.9. Cementation of Fixed and Temporary Restoration
  - 2.9.1. Types of Cements Used in Fixed and Provisional Restoration
  - 2.9.2. Techniques for the Cementation of Fixed and Provisional Restorations
  - 2.9.3. Important Considerations for Cementation of Fixed and Temporary Restorations
- 2.10. Carving for BOPT Technique
  - 2.10.1. Concept of the BOPT Technique in Dental Preparation and Restoration
  - 2.10.2. Techniques for Dental Carving in the BOPT Technique
  - 2.10.3. Advantages and Disadvantages of the BOPT Technique in Tooth Preparation and Restoration

# **Module 3.** Pre-Prosthetic Surgery. Pathologies and complications derived from of dental prosthesis

- 3.1. Risk Factors for the Development of Pathologies Related to Prosthetic Rehabilitation
  - 3.1.1. Poor Oral Hygiene and its Relationship with Prosthesis Pathology
  - 3.1.2. Systemic Diseases and Their Relation to Prosthetic Failure
  - 3.1.3. Types of Prostheses and Their Relation to the Occurrence of Oral Pathologies
  - 3.1.4. Patient-Related Factors that Increase the Risk of Dental Prosthesis Complications
- 3.2. Subprosthetic Stomatitis
  - 3.2.1. Definition of Subprosthetic Stomatitis and its Relation to Dental Prosthesis
  - 3.2.2. Prevalence of Subprosthetic Stomatitis in Patients with Dental Prosthesis
  - 3.2.3. Diagnosis of Subprosthetic Stomatitis: Signs and Symptoms
  - 3.2.4. Treatment of Subprosthetic Stomatitis: Available Treatment Options

- 3.3. Treatment of Fissured Epulis
  - 3.3.1. Definition of Fissured Epulis and its Relation to Dental Prosthesis
  - 3.3.2. Prevalence of Fissured Epulis in Patients with Dental Prosthesis
  - 3.3.3. Diagnosis of Fissured Episthesis: Signs and Symptoms
  - 3.3.4. Treatment of Fissured Epulis: Available Therapeutic Options
- 3.4. Peri-Implantitis. Clinical Protocols
  - 3.4.1. Definition of Peri-Implantitis and its Relation to Implant Prosthesis
  - 3.4.2. Prevalence of Peri-Implantitis in Patients with Implant Prosthesis
  - 3.4.3. Diagnosis of Peri-Implantitis: Signs and Symptoms
  - 3.4.4. Treatment of peri-implantitis: available therapeutic options and clinical protocols
- 3.5. Ideal Design of Conventional and Implant Prosthesis
  - 3.5.1. Ideal Design of Conventional Prosthesis
  - 3.5.2. Ideal Design of Implant Prosthesis
  - 3.5.3. Ideal Materials for the Fabrication of Dental Prosthesis
- 3.6. Maintenance of Conventional Fixed and Removable Prosthesis and Implant Prosthesis: Clinical Protocol
  - 3.6.1. Maintenance Protocol for Conventional Dental Prosthesis
  - 3.6.2. Maintenance Protocol for Implant Prosthesis
  - 3.6.3. Importance of Dental Prosthesis Maintenance to Prevent Complications
- 3.7. Other Rarer Lesions that may be Caused by latrogenic Prosthetic Treatment
  - 3.7.1. Less Freguent Oral Lesions Related to Prosthetic Treatment
  - 3.7.2. Identification and Diagnosis of Lesions
  - 3.7.3. Treatment of Lesions
- 3.8. Systemic diseases and their effect on the non-achievement of optimal results in dental prosthetics
  - 3.8.1. Systemic Diseases that Can Affect Prosthetic Rehabilitation
  - 3.8.2. Impact of systemic diseases on the prosthetic patient's quality of life
  - 3.8.3. Treatment protocol for patients with systemic diseases and dental prosthesis



# Structure and Content | 21 tech

- 3.9. Pre-Prosthetic Surgery
  - 3.9.1. Concept of Pre-Prosthetic Surgery
  - 3.9.2. Indications and Contraindications of Pre-Prosthetic Surgery
  - 3.9.3. Techniques for the Preparation of the Stomatognathic Apparatus
- 3.10. Relationship of the preprosthetic surgery with the appearance of prosthesis associated pathologies to oral rehabilitation
  - 3.10.1. Complications of the Pre-Prosthetic Surgery
  - 3.10.2. Pre-Prosthetic Surgery and Hard Tissues
  - 3.10.3. Pre-Prosthetic Surgery and Soft Tissues
  - 3.10.4. Pre-Prosthetic Treatment of the Extreme Patient



With this university program you will have access to clinical cases that will show you the main complications of Pre-prosthetic Surgery"



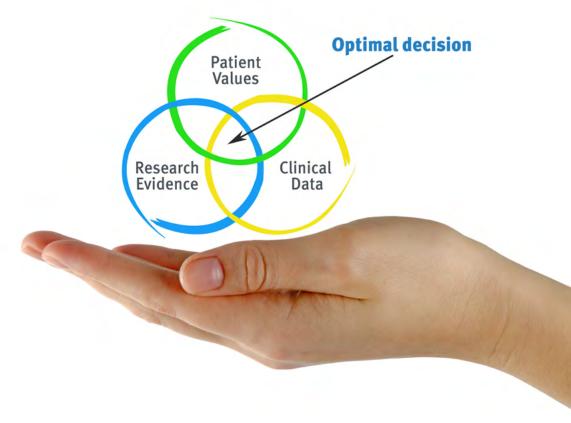


# tech 24 | Methodology

## 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 | 27 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**

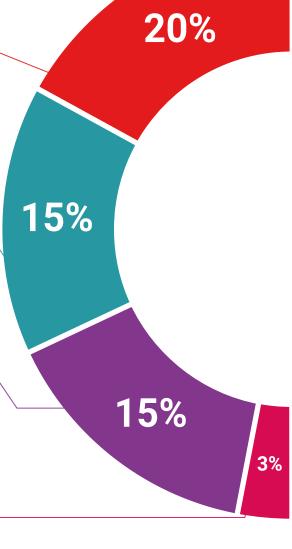
TECH introduces students to the latest techniques, the latest educational advances, and to the forefront of medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times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

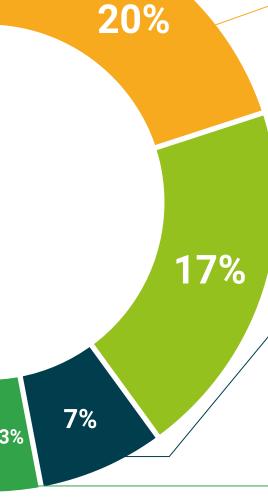
There is scientific evidence suggesting that observing third-party experts can be useful.

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.







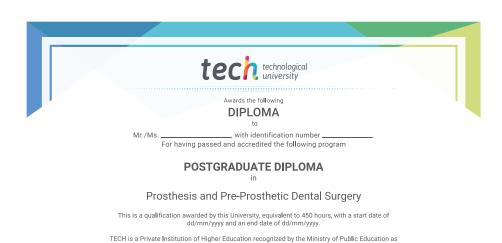
# tech 32 | Certificate

This **Postgraduate Diploma in Prosthesis and Pre-Prosthetic Dental Surgery** contains the most complete and up-to-date scientific on the market.

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

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

Title: Postgraduate Diploma in Prosthesis and Pre-Prosthetic Dental Surgery Official N° of Hours: **450 h**.



of June 28, 2018.

<sup>\*</sup>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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education information tutors
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institutions technology learning



# Postgraduate Diploma

Prosthesis and Pre-Prosthetic Dental Surgery

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

