

Postgraduate Certificate

Prosthesis on Dental Implant





Postgraduate Certificate Prosthesis on Dental Implant

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/dentistry/postgraduate-certificate/prosthesis-dental-implant

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01

Introduction

Nowadays, there are more and more people who have opted to use dental prostheses on an implant, making it a widely used and accepted technique in dental practice. In addition, they have gained popularity due to their high success rate, durability and natural appearance, which thanks to advances in technology have allowed the development of increasingly customized dental prostheses. With this in mind, TECH has designed this program that is focused on providing innovative education to professionals on the latest developments in this area and thereby perfecting their skills. All this, through a 100% online methodology, which will allow participants to have greater control over their time.





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This is the best Postgraduate Certificate for you to excel in the great field of dentistry and perfect your skills in the application of Prosthesis on Dental Implants”

Prosthesis on Dental Implants is a dental discipline that has revolutionized the way in which the rehabilitation of missing or damaged teeth is approached. However, the complexity of these procedures requires a specialized professional approach to ensure successful results and prevent long-term problems. For this reason, this Postgraduate Certificate has been developed to provide students with the concepts and techniques in this field.

This will be achieved through a complete syllabus on the practical aspects of this area, including the most important elements for the design and surface treatment of implants, as well as the macroscopic characteristics of threaded and impacted implants. The concepts of long, wide, short and narrow implants will also be addressed, with the aim of analyzing the ideal surface roughness of an implant.

In this way, the participants will acquire a deep knowledge of the most recent advances in the application of Prosthesis on Implants, which will allow them to apply the best clinical practices in their professional practice and to improve their professional skills that will allow them to guarantee their services.

This program is offered through the innovative Relearning methodology, which allows 100% online learning, giving students the flexibility to study from anywhere and on their own schedule. They will also have 24-hour access to multimedia resources that they can review at their own pace. In addition, they will be able to analyze case studies and thereby develop problem-solving skills by facing simulations of realistic situations.

This **Postgraduate Certificate in Prosthesis on Dental Implant** 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 Prosthesis on Dental Implants
- ♦ The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable 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



You want to achieve your goals and TECH will ensure you the path to achieve it, through the delivery of the latest content and a first class teaching staff"

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Do you want to stand out in the field of Dentistry? This is the best opportunity to do so. Don't wait any longer and enroll now"

Acquire advanced skills in the application of prostheses on implants and expand your career opportunities. Get started now.

A Postgraduate Certificate that allows you to learn at your own pace and from the comfort of your home.

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 during the course. This will be done with the help of an innovative system of interactive videos made by renowned experts.



02

Objectives

The main objective of this educational program is to provide students with a broad overview of the latest developments in dentistry, with special emphasis on the construction of dental prostheses on an implant. This will allow participants to acquire the necessary tools to master the techniques of this procedure, ensuring reliable care to patients who require this service. In addition, the study of multimedia resources will strengthen the students' skills in this field.





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*Improve your skills in oral restoration with
Prostheses on Dental Implants and offer
high-quality solutions to your patients”*



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





Specific Objectives

- Delve into the importance of biomechanics in implant prosthetics and learn about mechanical and biological complications
- Describe the different impression techniques, including the choice of the ideal impression tray type, impression materials (silicone versus polyester)
- Delve into the importance of the implant design and its characteristics in relation to its future rehabilitative treatment
- Strengthen knowledge in the selection of the appropriate attachment in each case
- Differentiate the various types of implant prosthesis available, such as screw-retained, cemented and cement-retained prosthesis, as well as the BOPT technique
- Describe characteristics, indications and contraindications of each type of prosthesis, in addition to the presentation of clinical and laboratory protocols.



The practical approach of the course will allow you to immediately apply your knowledge to real clinical cases and strengthen your skills in this field”

03

Course Management

TECH has brought together a prestigious teaching staff, made up of leading experts in dentistry, with the aim of offering excellent education during the course of this Postgraduate Certificate. As such, professionals who enroll in this program will have access to an advanced syllabus developed by a specialized team with extensive knowledge in the technical procedures of the prosthetic application on an implant and the appropriate monitoring of the treatment of each patient.





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The teaching staff of this program has extensive clinical experience in the field of Prostheses on Dental Implants, so you will be able to hone your skills in this area"

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

Mr. Salceda, Wladimiro

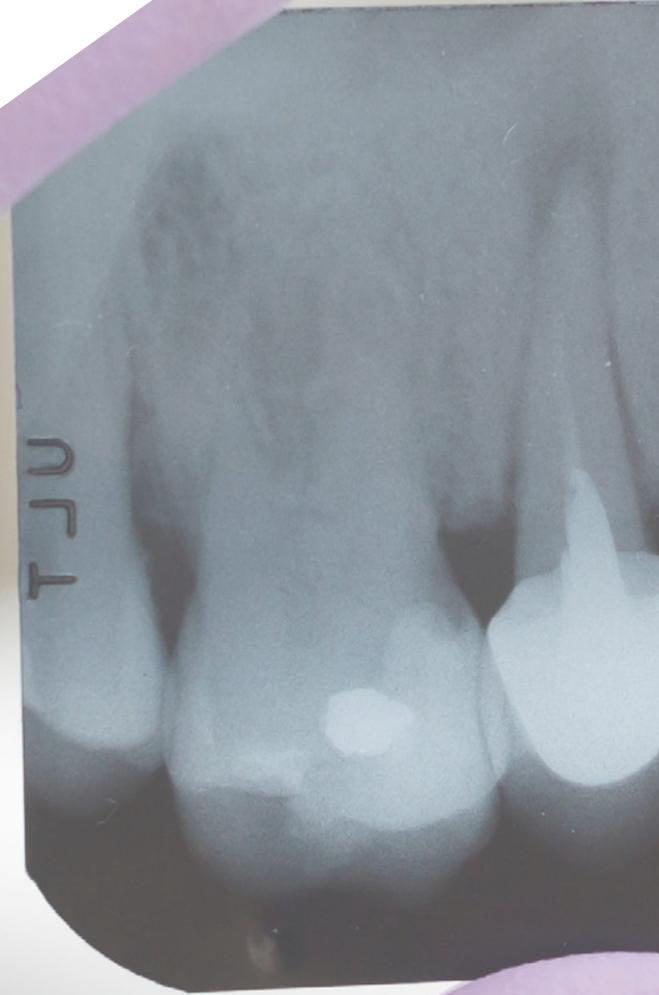
- ♦ General Dentist at Wladimiro Salceda Dental Clinic
- ♦ Founder of the Clinic Wladimiro Salceda Dental Clinic SL
- ♦ Degree in Dentistry from the University Alfonso X el Sabio
- ♦ Member of SEPES, SEPA, and SOCE

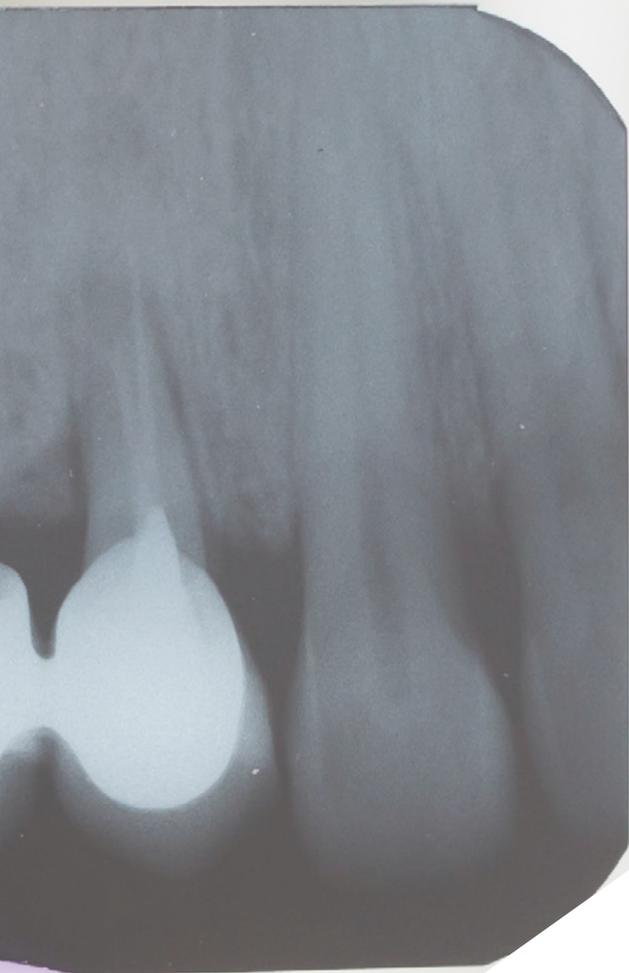


04

Structure and Content

The best specialists in dentistry have created the syllabus of this Postgraduate Certificate, which is the reason why students will obtain a first level qualification. In this program, participants will be up to date with the most relevant concepts on the prosthetic posture of an implant, as well as the most sophisticated techniques for its application. This will be possible thanks to the multimedia resources and the analysis of practical cases. This will allow them to acquire outstanding professional skills in this field.





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Discover the latest techniques and advances in Dental Implants with this educational program that is at the forefront of the latest developments in the field"

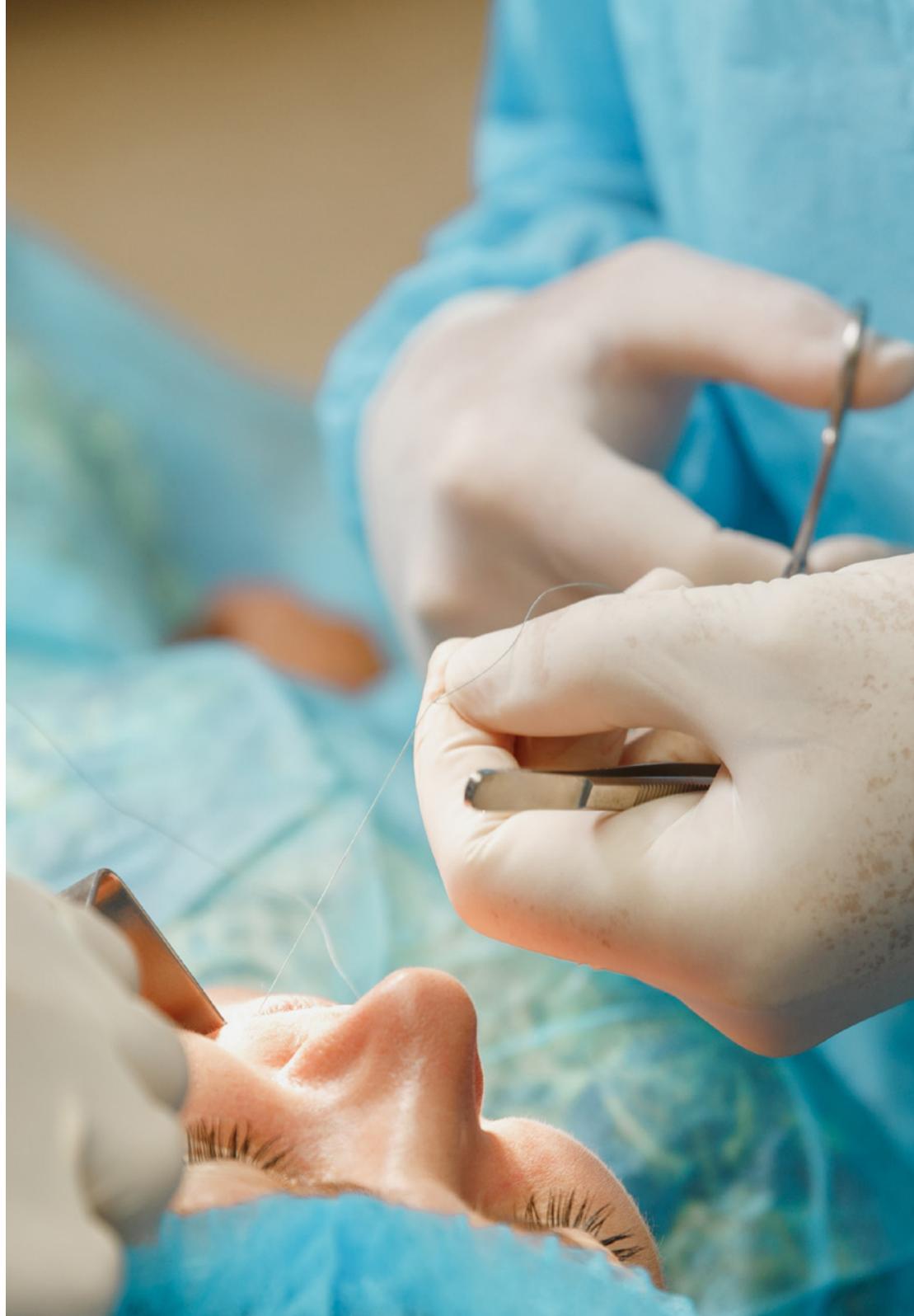
Module 1. Prostheses on Implants

- 1.1. Importance of Biomechanics in Prostheses on Implants. Mechanical and Biological Complications of Biomechanical Origin.
 - 1.1.1. Biomechanical Forces Influence on the Success of Implant Treatment
 - 1.1.2. Biomechanical Considerations in Implant Treatment Planning
 - 1.1.3. Implant Prosthesis Design to Maximize Stability and Longevity
 - 1.1.4. Mechanical and Biological Complications of Biomechanical Origin:
 - 1.1.4.1. Fractures of Implants and Prosthetic Components
 - 1.1.4.2. Bone Loss Around the Implants due to Excessive Biomechanical Loads
 - 1.1.4.3. Soft Tissue Damage due to Friction and Loading
- 1.2. Biomechanics of the Implant/Bone Interface. Biomechanical Characteristics of the Maxilla and Jaw. Biomechanical Differences between Cortical Bone and Cancellous Bone. The Paradox of Poor Quality Bone
 - 1.2.1. Force Distribution at the Implant/Bone Interface
 - 1.2.2. Factors Affecting Primary and Secondary Implant Stability
 - 1.2.3. Adaptation of the Implant/Bone Interface to Biomechanical Loads
 - 1.2.4. Biomechanical Characteristics of the Maxilla and Jaw
 - 1.2.4.1. Differences in the Density and Thickness of the Maxillary and Mandibular Bone
 - 1.2.4.2. Effect of Implant Location on Biomechanical Loading in the Maxilla and Jaw
 - 1.2.4.3. Biomechanical Considerations in Implant Placement in Aesthetic Areas
 - 1.2.5. Biomechanical Differences between Cortical Bone and Cancellous Bone
 - 1.2.5.1. Structure and Density of Cortical and Cancellous Bone
 - 1.2.5.2. Biomechanical Responses of Cortical and Cancellous Bone to Loading
 - 1.2.5.3. Implications for Implant Selection and Treatment Planning
 - 1.2.5.4. Contributing Factors to Poor Bone Quality
 - 1.2.5.5. Implications of Poor Bone Quality in Implant Placement
 - 1.2.5.6. Strategies of Preprosthetic Surgery to Improve the Quality of the Future Implant Base



- 1.3. Implant Design. Microscopic and Macroscopic Characteristics
 - 1.3.1. Macroscopic and Microscopic Characteristics of the Implant
 - 1.3.2. Materials Used in the Fabrication of Implants
 - 1.3.3. Design Considerations to Maximize Stability and Osseous Integration
- 1.4. Surface Treatment: Addition, Subtraction and Mixed Techniques. Bioactive Surfaces. Ideal Implant Surface Roughness. The Future of Surface Treatments
 - 1.4.1. Addition, Subtraction and Mixed Techniques to Modify the Implant Surface
 - 1.4.2. Effect of Bioactive Surfaces on Implant Osseointegration
 - 1.4.3. Ideal Implant Surface Roughness to Promote Osseointegration
 - 1.4.4. New Technologies and Materials to Improve Surface Treatments
 - 1.4.5. Customized Surface Treatment Development
 - 1.4.6. Potential Applications of Tissue Engineering in Surface Treatments
- 1.5. Macroscopic Characteristics: Threaded vs. Impacted. Tapered vs. Cylindrical. Design of the Coils. Cortical Zone Design. Soft Tissue Sealing Zone Design. The Long Implant. The Wide Implant. The Short Implant. The Narrow Implant
 - 1.5.1. Threaded vs. Impacted
 - 1.5.1.1. Advantages and Disadvantages of the Threaded System
 - 1.5.1.2. Advantages and Disadvantages Impact System
 - 1.5.1.3. Advantages and Disadvantages of the Impacted System
 - 1.5.2. Conical vs. Cylindrical
 - 1.5.2.1. Differences between Conical and Cylindrical Implants
 - 1.5.2.2. Advantages and Disadvantages of Each Implant Shape
 - 1.5.2.3. Indications for the Use of Each Implant Shape
 - 1.5.3. Design of the Coils
 - 1.5.3.1. Importance of the Design of the Coils in the Implant Stability
 - 1.5.3.2. Types of Coils and their Function
 - 1.5.3.3. Considerations for the Design of the Coils
 - 1.5.4. Design of the Cortical Zone and for Soft Tissue Sealing
 - 1.5.4.1. Importance of the Cortical and Soft Tissue Sealing Zone for Implant Success
 - 1.5.4.2. Design of the Cortical Zone to Increase Implant Stability
 - 1.5.4.3. Zone Design for Soft Tissue Sealing to Prevent Bone Loss and Improve Aesthetics
 - 1.5.5. Types of Implants According to Their Size
 - 1.5.5.1. The Long Implant and its Indications
 - 1.5.5.2. The Wide Implant and its Indications
 - 1.5.5.3. The Short implant and its Indications
 - 1.5.5.4. The Narrow implant and its Indications
- 1.6. Biomechanics of the Implant/Abutment/Prosthetic Interface
 - 1.6.1. Connection Types
 - 1.6.2. Evolution of Connections in Implantology
 - 1.6.3. Concept, Characteristics, Types and Biomechanics of the External Connections
 - 1.6.4. Concept, Characteristics, Types and Biomechanics of Internal Connections: Internal Hexagon and Cone
- 1.7. Pillars for Implant Prosthesis
 - 1.7.1. Platform Change
 - 1.7.2. *"One Abutment One Time"* Protocol
 - 1.7.3. Tilted Implants
 - 1.7.4. Biomechanical Protocol for Minimizing Marginal Bone Loss
 - 1.7.5. Biomechanical Protocol for the Selection of the Number of Implants Required Depending on the Type of Prosthesis
- 1.8. Impressionism
 - 1.8.1. Selection of the Ideal Tray Type
 - 1.8.2. Impression Materials: Silicone vs. Polyester
 - 1.8.3. Indirect or Closed-Tray Technique. Direct or Open-Tray Technique. When to Splint Impression Transfers. Prints with Snaps Coping. How to Choose the Ideal Printing Technique
 - 1.8.4. Taking an Impression of the Emergency Profile and of the Pontics
 - 1.8.5. Pouring of Models for Implant Prosthesis

- 1.9. Screw-Retained, Cement-Retained and Cement-Screw-Retained Prosthesis
 - 1.9.1. Cement-Retained Prosthesis
 - 1.9.1.1. Concept and Characteristics of the Cemented Prosthesis
 - 1.9.1.2. Indications and Contraindications of the Cemented Prosthesis
 - 1.9.1.3. Types and Characteristics of the Abutments to be Cemented. Selection of the Ideal Abutment
 - 1.9.1.4. Cement. Selection of the Ideal Cement
 - 1.9.1.5. Clinical and Laboratory Protocol
 - 1.9.2. Screw-Retained Prosthesis
 - 1.9.2.1. Concept and Characteristics of the Cemented Prosthesis
 - 1.9.2.2. Direct Screw-Retained Prosthesis
 - 1.9.2.3. Indirect Screw-Retained Prosthesis. The Intermediate Abutment
 - 1.9.2.4. Indications and Contraindications of Screw-Retained Prosthesis
 - 1.9.2.5. Clinical and Laboratory Protocol
 - 1.9.3. Cement-Screw-Retained Prosthesis
 - 1.9.3.1. Concept and Characteristics of Cement-Screwed Prosthesis
 - 1.9.3.2. Selection and Characteristics of the Ideal Abutment
 - 1.9.3.3. Clinical and Laboratory Protocol
 - 1.9.4. BOPT Technique
 - 1.9.4.1. Concept and Characteristics
 - 1.9.4.2. Selection and Characteristics of the Ideal Abutment
 - 1.9.4.3. Clinical and Laboratory Protocol
 - 1.9.4.4. Presentation of Clinical Cases



- 1.10. Overdentures and Hybrids
 - 1.10.1. Concept and Types of Overdentures and Hybrids: Implant-Supported vs. Implant-Retained
 - 1.10.2. Indications and Contraindications of Overdentures and Hybrids. Main Advantages and Complications
 - 1.10.3. Clinical Protocol for Differential Diagnosis between Fixed, Hybrid and Overdenture: Analog and Digital
 - 1.10.4. Types of Retention: Bars and Individual Anchors. Selection of Retainer Depending on Each Case
 - 1.10.5. Biomechanics of Overdentures and Hybrids. Number of Implants Required for an Overdenture and for a Hybrid
 - 1.10.6. Clinical Protocol and Tips. Laboratory Protocol
 - 1.10.7. Clinical Cases



Achieve professional excellence with this Postgraduate Certificate and give your career the boost it needs”

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.





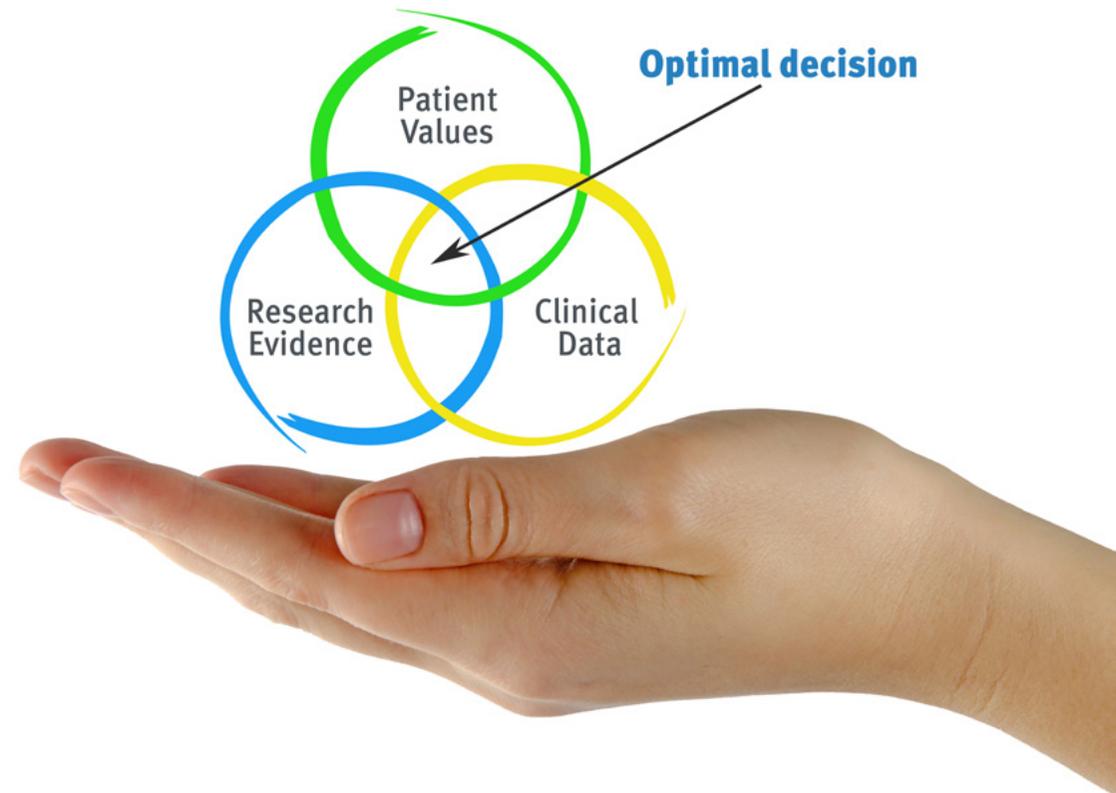
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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

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

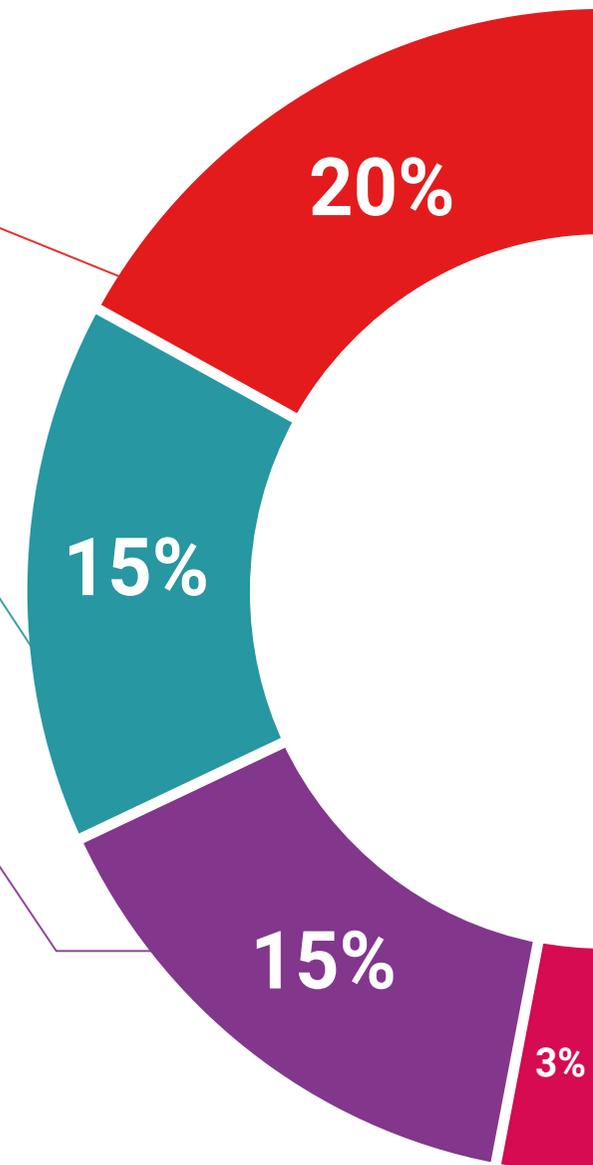
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

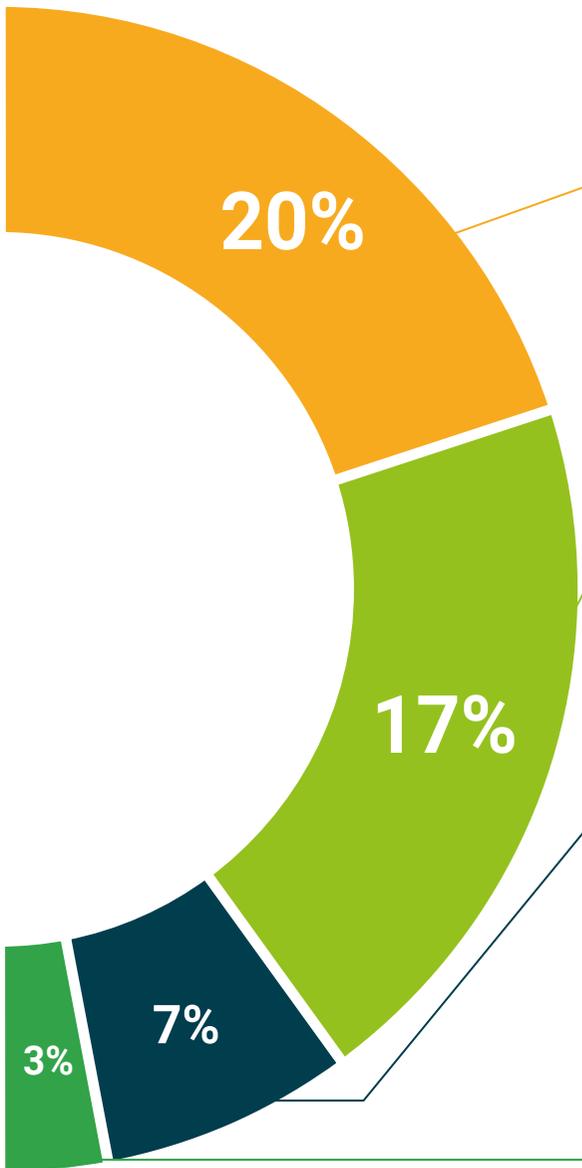
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 Prosthesis on Dental Implant guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"

This private qualification will allow you to obtain a **Postgraduate Certificate in Prosthesis on Dental Implant** 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 Certificate in Prosthesis on Dental Implant**

Modality: **Online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



*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.



Postgraduate Certificate Prosthesis on Dental Implant

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate

Prosthesis on Dental Implant

