

# Postgraduate Diploma

Minimally Invasive Dental  
Rehabilitation with Porcelain



## Postgraduate Diploma

### Minimally Invasive Dental Rehabilitation with Porcelain

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

Website: [www.techtute.com/in/dentistry/postgraduate-diploma/postgraduate-diploma-minimally-invasive-dental-rehabilitation-porcelain](http://www.techtute.com/in/dentistry/postgraduate-diploma/postgraduate-diploma-minimally-invasive-dental-rehabilitation-porcelain)

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# 01

# Introduction

Although having full command of the main dental tools and strategies is fundamental for any professional in the field, accurate diagnoses and treatment planning, as well as prioritizing patient needs, are crucial for their success. It is precisely on this maxim that minimally invasive rehabilitation with porcelain is based on satisfying patient needs by means of intensive, careful and specialized work. And so dentists can work on perfecting these skills, TECH has developed a complete program that will allow them to keep up with the techniques used to restore natural dental features via ceramic veneers and crowns. To that end, we offer 600 hours of the best theoretical, practical and additional content, which will be presented in a convenient and accessible 100% online format.





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*The best program in today's academic market to get up to speed on minimally invasive porcelain-based dental rehabilitation strategies via a dynamic and innovative program”*

Aesthetic periodontal rehabilitation is a real challenge for dental professionals. The complexity of its techniques and the specifications of each patient make it both a complicated specialty and a widely demanded one in society, since, especially nowadays, oral hygiene and oral appearance are a significant feature of one's personal image that are visible for all to see. Among the most commonly used techniques to reconstruct teeth is the use of porcelain veneers, with can achieve a natural and satisfactory result.

This Postgraduate Diploma is a guide for our students to keep up with the latest developments in the field, working with the most exhaustive and innovative information on minimally invasive dental rehabilitation with ceramic prostheses. This is an intensive and multidisciplinary academic experience where students can delve into the latest advances in aesthetic diagnosis, as well as the fundamentals of bonding and subsequent reconstruction using techniques to increase the vertical dimension of occlusions with indirect resins.

With that in mind, our students will enjoy 600 hours of diverse material, including use cases for them to perfect their competencies. All the content will be available on the Virtual Campus from the beginning of the program and can be accessed from any device with an Internet connection. Our students will have the opportunity to update their knowledge conveniently in an academic experience adapted to their needs and to the demands of today's clinical dental sector.

This **Postgraduate Diploma in Minimally Invasive Dental Rehabilitation with Porcelain** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- ◆ Case studies presented by experts in Clinical Dentistry
- ◆ 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 the self-assessment process can be carried out 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



*Thanks to our team of experts in Clinical Dentistry, you will approach aesthetic diagnosis from the basics to the latest developments”*

“ *In addition to working on technical aspects, you will also hone your communication skills to carry out the highest quality service possible*”

The program's teaching staff includes professionals from the sector 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 academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

*You will be provided with the most innovative theoretical and practical material to update on the latest developments in intra-oral and cement bonding in dentistry.*

*A 100% online program that offers you the same academic quality as any classroom format, but from wherever you want: without schedules and with a teaching calendar that you can organize yourself.*



# 02

## Objectives

Aesthetic dentistry has become one of the most demanded branches in the field of oral health. Among the most common practices regarding maxillary anterior intervention is minimally invasive rehabilitation with porcelain, so its professionals must have detailed knowledge of the advances in this area to apply them in their practice. Therefore, the objective of this Postgraduate Diploma is to guide our students in their update, providing them with the most exhaustive and innovative information available today via a convenient and accessible 100% online academic experience.







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*A perfect qualification to include in your skills portfolio: A full command of the most effective and innovative materials for all-ceramic prosthetic rehabilitation”*



## General objectives

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- Provide sufficient bibliography and documentation to equip dentist professionals with diagnostic judgment required to select suitable work strategies when dealing with any clinical situation
- Develop a specialized and updated fund of knowledge of aesthetic diagnosis in dentistry, and of the most common materials being used today to implement porcelain dental prostheses



*A program that will give you the keys to perfect your practice and to distinguish yourself in the dental sector as one of the best aesthetic professionals in the use of porcelain"*





## Specific objectives

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### Module 1. Aesthetic Diagnosis

- ♦ Establish the importance of the psychosocial factor in modern dentistry
- ♦ Perform aesthetic analysis from the measurement of different facial, dental and gingival parameters

### Module 2. Principles of Adhesion

- ♦ Update the classification of the different adhesive systems, from the current scientific evolution and under a practical application
- ♦ Establish the necessary skills for the adequate selection of the adhesive agent for each clinical situation

### Module 3. Porcelain

- ♦ Provide the dentist with tools that allow them to stereotype the patient and to establish an adequate maintenance schedule for each patient
- ♦ Classify in a practical way the different materials available to the dentist for the realization of all-ceramic prostheses
- ♦ Clarify the different properties of each one of the materials and their reduction needs
- ♦ Provide the dentist with protocols for the aesthetic adhesive rehabilitation by means of laminated fronts
- ♦ Provide the dentist with protocols for aesthetic adhesive restoration using full veneer crowns
- ♦ Establish the advantages of digital workflows and CAD/CAM technology

### Module 4. Minimally Invasive Rehabilitation

- ♦ Provide the dentist with the necessary knowledge to select the appropriate acquisition and illumination material
- ♦ Establish protocols for each clinical situation
- ♦ Clarify the importance of clinical photography as a communicative tool
- ♦ Classify the different defects that can be found when facing a rehabilitation on implants

03

# Course Management

TECH's commitment to offer the best and most comprehensive academic experience; that is why it has selected for this Postgraduate Diploma a faculty specialized in the clinical dental management of the main techniques applied to minimally invasive rehabilitation with porcelain. The teaching team possesses detailed knowledge of the latest developments in the sector and will not hesitate to share it with those who enroll in the program. Therefore, by choosing this course, our students will be betting on an academic experience that will provide them with everything they need to ensure they update and perfect their skills.





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*The teaching team has selected use cases from their own professional experience so you can put your skills into practice by solving real simulated situations”*

## Management



### Dr. Ilzarbe Ripoll, Luis María

- ♦ Degree in Dentistry from the University of Valencia
- ♦ Specialist in Aesthetic Dentistry, exclusively at Ilzarbe Garcia-Sala dental clinic
- ♦ Master's Degree in University Research Training, Catholic University of Valencia
- ♦ Master's Degree in Prosthodontics and Occlusion at E.S.O.R.I.B
- ♦ Master's Degree in Comprehensive Periodontics
- ♦ Master's Degree in Oral Rehabilitation and Implantology at E.S.O.R.I.B
- ♦ D.U.I. in Maxillofacial Surgery and Implantology, Université Paul Sabatier de Toulouse
- ♦ Expert in all-ceramic prosthesis from the Complutense University of Madrid



# 04

## Structure and Content

Both the structure and the content of this program have been designed by the teaching team, who, as specialists in dentistry, have detailed knowledge of the latest developments in the sector and the aspects that every professional must master to offer an updated, personalized and effective service. The best syllabus, as well as hours of high-quality additional material, including detailed videos, research articles, complementary readings, dynamic summaries and self-knowledge exercises. Our students can delve into this content in a personalized way, contextualizing the information and enjoying an academic experience adapted to their needs.







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*You will be able to work in aesthetic rehabilitation by means of laminated fronts and full veneer crowns using the most innovative procedures in monolithic techniques”*

## Module 1. Aesthetic Diagnosis

- 1.1. Aesthetic Analysis. Principles of Biomimetics
  - 1.1.1. Facial Analysis
  - 1.1.2. Smile Analysis
- 1.2. Color Theory. Diagnostic Tools
  - 1.2.1. The Nature of Color
  - 1.2.2. Color Parameters
  - 1.2.3. Estimation Technique (Subjective) with Analog Guidance
  - 1.2.4. Other Factors that Influence Perception
  - 1.2.5. Color Matching Clinical Process
  - 1.2.6. Objective Methods of Chromatic Estimation (Digital Guides)
- 1.3. Practical Application of Color
  - 1.3.1. Practical Application of Dental Color and Shade Guides
  - 1.3.2. Clinical Protocol for Successful Color Imaging
  - 1.3.3. Dental Stains
  - 1.3.4. Color as a Key Factor in Decision-Making with Composite Resins
  - 1.3.5. Color as a Key Factor in Decision-Making with Dental Ceramics
- 1.4. Communication with Patients
  - 1.4.1. Current Diagnostic Tools. Communication Software
  - 1.4.2. Direct Mock-Up vs. Digital Stimulation

## Module 2. Principles of Adhesion

- 2.1. Adhesive Dentistry. Background and Perspectives
  - 2.1.1. Classification of Adhesives by Generations
  - 2.1.2. Traditional Classification of Dental Adhesives based on the Time of Appearance
  - 2.1.3. Mechanisms of Adhesion of Conventional Adhesives
  - 2.1.4. Mechanism of Adhesion of Self-Etching Adhesives
- 2.2. Adhesion to Different Substrates
  - 2.2.1. Mechanisms of Adhesion
  - 2.2.2. Adhesion to Dental Tissues

- 2.3. Adhesive Dentistry for Different Materials
  - 2.3.1. Intraductal Adhesion
  - 2.3.2. Adhesion to Indirect Restorative Materials
- 2.4. Cement in Dentistry
  - 2.4.1. Classification of Cements
  - 2.4.2. Decision-Making
  - 2.4.3. Equipment and Techniques

## Module 3. Porcelain

- 3.1. Materials for Rehabilitation in All-Ceramic Prosthetics
  - 3.1.1. Classical classification and properties of porcelains for dental use
  - 3.1.2. Modern Classification and Properties of New Materials
- 3.2. Technical Specifications of the Materials
  - 3.2.1. Reduction Requirements for Preparing Teeth for Restoration with Different Materials
  - 3.2.2. Rotary Tools for Tooth Reduction
  - 3.2.3. Anatomico-Physiological and Optical Conditions of the Materials
- 3.3. Impressions for Fixed Prosthesis Rehabilitation
  - 3.3.1. Definition and Classification of Materials
  - 3.3.2. Impression Techniques
  - 3.3.3. Displacement of Gingival Tissues
- 3.4. Aesthetic Rehabilitation Using Laminates
  - 3.4.1. Step-by-Step Technique
  - 3.4.2. Material Selection. The Importance of the Substrate
  - 3.4.3. Tooth Preparation, Intraoperative Tooth Treatment, and Provisionalization
  - 3.4.4. Definitive Cementation. Materials and Techniques
- 3.5. Laboratory Procedure for the Manufacture of Laminated Fronts
  - 3.5.1. Definitive Impressions and Communication with the Laboratory
  - 3.5.2. Laboratory Techniques for Manufacturing Laminates

- 3.6. Aesthetic Rehabilitation Using Full Veneer Crowns
  - 3.6.1. Step-by-Step Technique
  - 3.6.2. Material Selection. The Importance of the Substrate
  - 3.6.3. Tooth Preparation, Intraoperative Tooth Treatment, and Provisionalization
  - 3.6.4. Definitive Cementation. Materials and Techniques
- 3.7. Laboratory Procedure for Producing Full Veneer Crowns
  - 3.7.1. Definitive Impressions and Communication with the Laboratory
  - 3.7.2. Laboratory Techniques for Manufacturing Full Veneer Crowns
- 3.8. Computer-Assisted Aesthetic Dentistry
  - 3.8.1. Main CAD/CAM Systems, Properties and Characteristics
  - 3.8.2. The Power of Biocopy, Biomimetic Applications
  - 3.8.3. Future Trends and 3D Printing
- 3.9. Monolithic Techniques
  - 3.9.1. Indications and Protocols
  - 3.9.2. Make-Up and Subsequent Characterization
- 3.10. New Trends in Ceramic Prosthetics
  - 3.10.1. Vertical Carving. Indications and Disadvantages of the Technique
  - 3.10.2. Biologically Oriented Preparation Technique (BOPT)

#### Module 4. Minimally Invasive Rehabilitation

- 4.1. Concepts in Oral Adhesive Rehabilitation
  - 4.1.1. Principles of Rehabilitations with Minimally Invasive Restorations
  - 4.1.2. Vertical Dimension of Occlusives
- 4.2. Occlusion in Adhesive Rehabilitation
  - 4.2.1. Record Taking and Diagnostic Model Management
  - 4.2.2. Need for Articulator and Face-Bow Mounting
  - 4.2.3. Deprogramming and Provisionalization as a Control Tool
  - 4.2.4. Stabilization for Long-Term Maintenance
- 4.3. Materials and Indications
  - 4.3.1. Update on Tooth Reduction for Inlays and Onlays
  - 4.3.2. Criteria for Selecting Restoration Material. Restoration Systems for Posterior Sectors

- 4.4. Techniques to increase the vertical dimension of occlusion with direct resins
  - 4.4.1. Materials and Protocols
  - 4.4.2. Technical Procedure
  - 4.4.3. Limits, Advantages, and Disadvantages
- 4.5. Techniques to increase the vertical dimension of occlusion with indirect resins
  - 4.5.1. Material and Protocols
  - 4.5.2. Technical Procedure
  - 4.5.3. Limits, Advantages, and Disadvantages
- 4.6. Techniques to increase the vertical dimension of occlusion with porcelains
  - 4.6.1. Material and Protocols
  - 4.6.2. Technical Procedure
  - 4.6.3. Limits, Advantages, and Disadvantages
- 4.7. Laboratory Procedures for Changes in Vertical Dimension
  - 4.7.1. Procedures for Rehabilitation with Composites
  - 4.7.2. Procedures for Rehabilitation with Porcelain



*A program that will allow you to offer the most updated and valuable clinical service, based on the most ground-breaking and innovative diagnostic strategies used in ultrasound imaging”*

# 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.





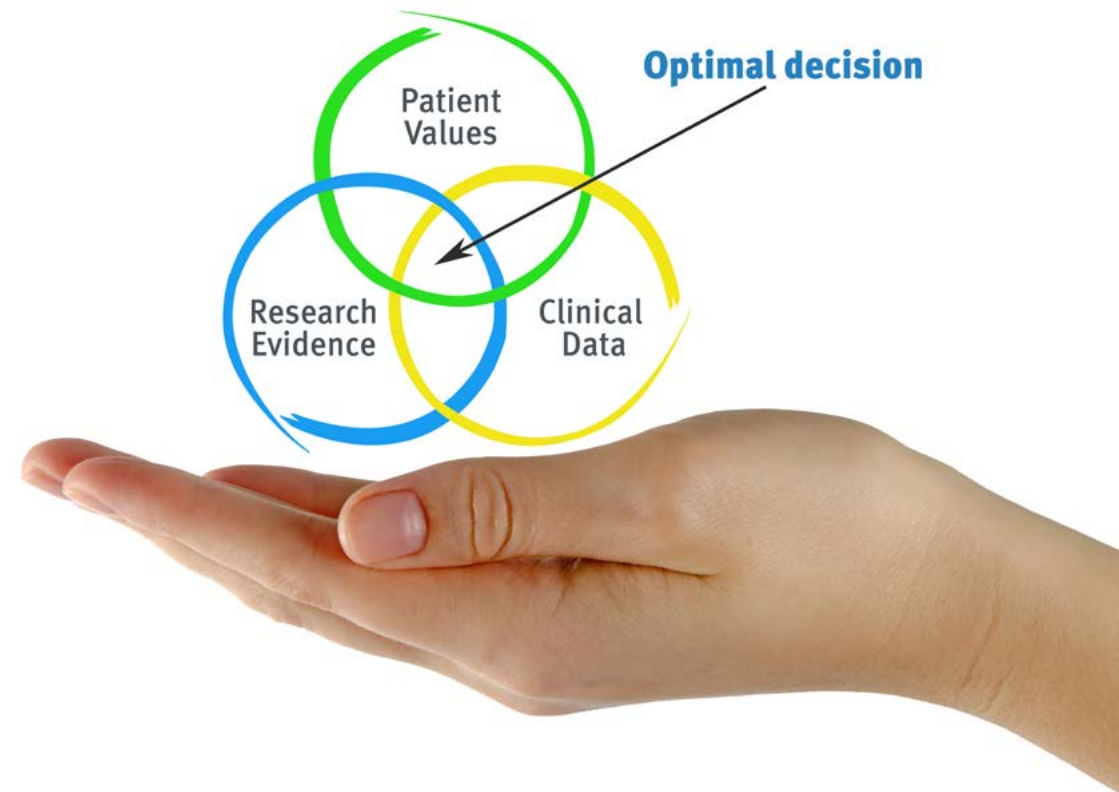
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## 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

This Postgraduate Diploma in Minimally Invasive Dental Rehabilitation with Porcelain guarantees you, in addition to the most rigorous and up-to-date training, access to a Postgraduate Diploma issued by TECH Technological University.



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

This **Postgraduate Diploma in Minimally Invasive Dental Rehabilitation with Porcelain** contains the most complete and up-to-date scientific program on the market.

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

The certificate 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 Minimally Invasive Dental Rehabilitation with Porcelain**

Official N° of hour: **600 h.**



\*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.



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