



Postgraduate Diploma

Reconstruction of Endodontic Teeth

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

 $We b site: {\color{blue} www.techtitute.com/pk/dentistry/postgraduate-diploma/postgraduate-diploma-reconstruction-endodontic-teeth}$

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tech 06 | Introduction

This online program aims to respond to the needs not only of its students, but also of society, anticipating the future demands of the environment. Change, the result of globalization and the imperatives of a new knowledge-based economy, requires ambitious modernization programs in the field of online training.

This training will be carried out in a balanced way, with a focus on endodontics, post-endodontic reconstruction and apical surgery with the intense involvement of anatomy, dental materials, radiology, the use of magnification, new technologies, and an interdisciplinary approach.

The knowledge acquired 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 lifelong professional development and continuing education, be able to efficiently utilize advances in knowledge and technology, and understand the central role of the patient in therapeutic decision making.

This **Postgraduate Diploma in Reconstruction of Endodontic Teeth** 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 dental 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.
- Latest information on Reconstruction in Endodontics.
- Algorithm-based interactive learning system for decision-making in the presented clinical situations.
- With special emphasis on evidence-based medicine and research methodologies in Reconstruction in Endodontics.
- Content that is accessible from any fixed or portable device with an Internet connection.



Expand your knowledge through the Postgraduate Diploma in Reconstruction of Endodontic Teeth, in a practical way and adapted to your needs"



This Postgraduate Diploma may be the best investment you can make when choosing a refresher program for two reasons: in addition to updating your knowledge in Reconstruction of Endodontic Teeth, you will obtain a Postgraduate Diploma from TECH Technological University"

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

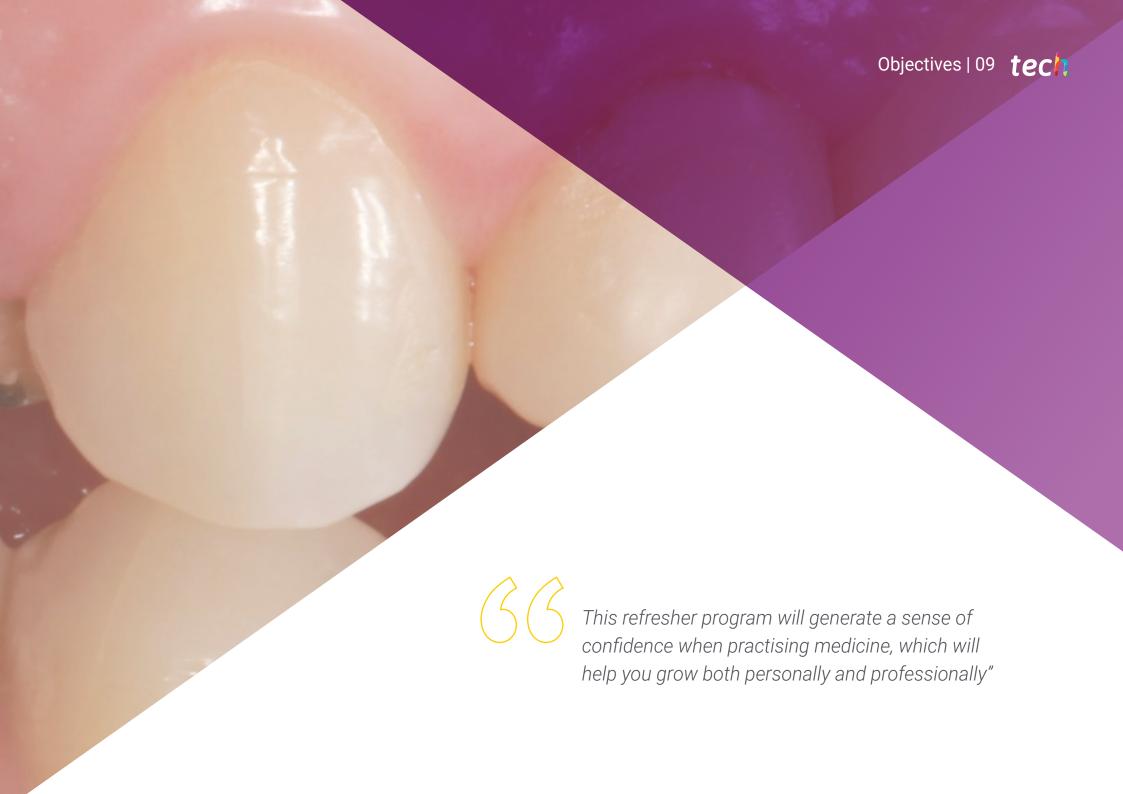
The multimedia content developed with the latest educational technology will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive training program to train in real situations.

This program is designed around Problem Based Learning, whereby the physician 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.

Increase your decision-making confidence by updating your knowledge with this Postgraduate Diploma in Reconstruction of Endodontic Teeth.

Don't miss out on the opportunity to update your knowledge in Endodontics in Reconstruction of Endodontic Teeth in order to improve your care of your patients.





tech 10 | Objectives



General objectives

- Update the theoretical and practical knowledge of the dentist in the different areas of Endodontics and Apical Microsurgery, through evidence-based dentistry.
- Promote work strategies based on a multidisciplinary approach to the patient who is a candidate for endodontic treatment or apical surgery.
- 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.
- Train the professional to reach levels of excellence based on the attentive observation of
 the patient and their circumstances, extraction of the appropriate clinical and exploratory
 data, elaboration of a diagnostic process and therapeutic plan that will lead them to offer
 the patient the best possible option in that situation. To this end, it will be essential to
 immerse oneself in the continuous study of the bibliography, acquiring stable bases and
 a habit of periodically reviewing the evolution of knowledge with a critical attitude and
 discriminating capacity.





Specific objectives

- Describe the biological principles of endodontics.
- Perform a correct clinical history in endodontics, taking into account the risk diseases as well as the various radiological techniques available to us to make a correct diagnosis.
- Know how to differentiate the different treatment options for open apex teeth.
- Be able to perform the procedure for insulation by means of a rubber dam.
- Explain the anatomy and location of root canals.
- Correctly prepare the surgical field in apical surgery as well as master the sterilization protocols.
- Gain knowledge and skills in the use of magnification in Endodontics.
- Explain the performance of incision techniques in Apical surgery, lesion removal, apicoectomy, and retro-preparation.



Make the most of the opportunity and take the step to get up-to-date on the latest developments in the Reconstruction of Endodontic Teeth"





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Management



Dr. Fabra Campos, Hipólito

- Graduate in medicine and surgery.
- Degree in Stomatology from the School of Stomatology of the Complutense University of Madrid.
- Doctor of Medicine from the Complutense University of Madrid.
- Collegiate of Honor of the Iltre. Official College of Odontologists and Stomatologists of La Rioja.
- Rodríguez Carvajal Award for the best case published in the magazine of the Spanish Endodontic Association 1992.
- Winner of the II Contest of Odonto-Stomatological Scientific Activities Ciudad de Córdoba 1997.
- Pedro Ruíz de Temiño Malo Award for the best original article published in the Spanish Journal of Endodontics 1998.
- Award for the best Communication in video format XXVI National Congress of AEDE 2005.
- Founding member of the Spanish Society of Endodontics.
- Active member of the European and American Society of Endodontics, of the Academy of Dental Materials and Full Member Specialist of the Spanish Society of Periodontology.
- Active member of the Spanish section of the Pierre Fauchard Academy.
- Dictated more than 150 conferences and courses on Endodontics and Dental Surgery in Spain, Portugal, Argentina, Ecuador and Brazil.
- Co-author of the New Medical Etymological Dictionary of Dentistry 2008.
- More than 75 scientific articles published in various Spanish journals, as well as in The Journal of Endodontics, The International Endodontic Journal, The Endodontics & Dental Traumatology, The Quintessence International and The Endodontic Practice

Management



Dr. Cañizares, Luís

- Master Professor in Endodontics at the University of Zaragoza.
- Degree in Dentistry European University of Madrid.
- Official Master of Advanced Endodontics.
- Titular Member of the Spanish Association of Endodontics (AEDE).
- Master Professor in Endodontics at the University of Zaragoza.
- Exclusive dedication in Endodontics at the Dr. Ruiz de Gopegui Clinic.
- Speaker in different courses and congresses in the area of Endodontics.



Dr. García Rielo, Manuel Miguel

- Clinical Tutor Professor of the USC in the Teaching Unit of Dental Pathology and Therapeutics.
- Degree in Dentistry from the University of Santiago de Compostela.
- International Master of Advanced Endodontics
- Master's Degree in Implantology, Periodontology and Oral Surgery
- Advanced Studies diploma
- Clinical Tutor Professor of the USC in the Teaching Unit of Dental Pathology and Therapeutics.
- Collaborating professor of the International Master of Advanced Endodontics at the USC School of Dentistry.
- Author of various articles in national and international magazines.
- Lecturer and author of two books in exam preparation courses.
- National research awards granted by the Spanish Society of Conservative Dentistry (SEOC)
- Member of different scientific societies: SEPES, SEPA, SEOC, SEGER and SEMO





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Module 1. The Modern Concept of Endodontics

- Reviewing the Concept of Dentinal Canal, Cementary Canal and Pulp Stump, Pulp Cap, or Differentiated Apical Periodontium.
 - 1.1.1. Dentinal Canal.
 - 1.1.2. Cementary Canal.
 - 1.1.3. Pulp Stump, Pulp Cap, or Differentiated Apical Periodontium.
- 1.2. Reviewing the Concept of Root Cementum, Apical Foramen, Periodontal Membrane, and Alveolar Bone.
 - 1.2.1. Cementodentinal Junction.
 - 1.2.2. Root Apex.
 - 1.2.3. Root Cementum.
 - 1.2.4. Apical Foramen.
 - 125 Periodontal Membrane

Module 2. Retreatments

- 2.1. What is the cause of failure of an endodontically treated tooth?
 - 2.1.1. Persistent or Secondary Endodontic Infections.
 - 2.1.2. Microbiology in the Root Filling Phase.
- 2.2. Diagnosing Endodontic Failure.
 - 2.2.1. Clinical Evaluation of Root Canal Treatment.
 - 2.2.2. Radiographic Evaluation of Root Canal Treatment.
 - 2.2.3. Acceptable, Questionable, and Radiographically Unacceptable Root Canal Treatment.
 - 2.2.4. Diagnosing Apical Periodontitis with Cone Beam Computed Tomography (CBCT)
 - 2.2.5. The Role of the Optical Microscope when We Need to Retreat a Tooth.
 - 2.2.6. Integration of Evaluative Factors in Determining the Outcome of Root Canal Treatment.
- 2.3. Predisposing Factors for Post-Treatment Disease.
 - 2.3.1. Preoperative Factors that May Influence the Outcome of Root Canal Treatment.
 - 2.3.2. Intraoperative Factors that May Influence the Outcome of Root Canal Treatment
 - 2.3.3. Postoperative Factors that May Influence the Outcome of Root Canal Treatment.

- 2.4. Non-Surgical Clinical Retreatment.
 - 2.4.1. Preparing the Access Cavity.
 - 2.4.2. The Use of Ultrasound.
 - 2.4.3. Crown Removal.
 - 2.4.4. Removal of Bolts and/or Posts.
 - 2.4.5. Rotosonic VIbration.
 - 2.4.6. Ultrasound.
 - 2.4.7. Mechanical Option.
 - 2.4.8. Access to the Root Third.
 - 2.4.9. Gutta-Percha Solvents
 - 2.4.10. Gutta-Percha Removal Techniques.
 - 2.4.11. Hedstroem Filing Technique.
 - 2.4.12. Techniques with Rotary Files.
 - 2.4.13. Removal via Ultrasound.
 - 2.4.14. Removal via Heat.
 - 2.4.15. Removal via Preheated Instruments.
 - 2.4.16. Removal with Files, Solvents, and Paper Cones.
 - 2.4.17. Paste Removal.
 - 2.4.18. Single Cone Gutta-Percha Removal with Solid Stem.
 - 2.4.19. Silver Tip Removal.
 - 2.4.20. Removal of Broken Instruments.



Structure and Content | 21 tech

Module 3. Endodontic Problems and Complications in Endodontics

- 3.1. Uncommon Root Anatomy in Different Teeth of the Dental Arch.
 - 3.1.1. Variations in the Root Anatomy of the Maxillary Incisors and Canines.
 - 3.1.2. Variations in the Root Anatomy of the Maxillary Premolars.
 - 3.1.3. Variations in the Root Anatomy of the Mandibular Incisors and Canines.
 - 3.1.4. Variations in the Root Anatomy of the Mandibular Premolars.
- 3.2. Etiopathogenesis of Large Periapical Lesions and their Treatment in a Single Session.
 - 3.2.1. Pathologic Diagnosis of Granuloma.
 - 3.2.2. Anatomopathological Diagnosis of Cysts. Odontogenic Cysts.
 - 3.2.3. Bacteriological Considerations for Performing Endodontic Treatment of Large Periapical Lesions in a Single Session.
 - 3.2.4. Clinical Considerations for Performing Endodontic Treatment of Large Periapical Lesions in a Single Session.
 - 3.2.5. Clinical considerations on the Management of Fistulous Processes Associated with a Large Periapical Lesion.
- 3.3. Treatment of Large Periapical Lesions in Multiple Sessions.
 - 3.3.1. Differential Diagnosis, Chamber Opening, Permeabilization, Cleaning, Disinfection, Apical Permeabilization, and Canal Drying.
 - 3.3.2. Intra-duct Medication.
 - 3.3.3. Temporary Crown Obutration (To close or not to close, that is the question).
 - 3.3.4. Catheterization of the Fistulous Tract or Perforation of the Granuloma and Blind Scraping of the Apical Lesion of the Tooth.
 - 3.3.5. Guidelines for a Regulated Approach to a Large Periapical Lesion.
- 3.4. Evolution in the Treatment of Large Periapical Lesions in Several Sessions.
 - 3.4.1. Positive Evolution and Treatment Control.
 - 3.4.2. Uncertain Evolution and Treatment Control.
 - 3.4.3. Negative Evolution and Treatment Control.
 - 3.4.4. Considerations on the Cause of Failure in the Conservative Treatment of Large Periapical Lesions.
 - 3.4.5. Clinical Considerations on Fistulous Processes in Relation to the Tooth of Origin.

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- 3.5. Location, Origin, and Management of Fistulous Processes.
 - 3.5.1. Fistulous Tracts Originating from the Anterosuperior Group.
 - 3.5.2. Fistulous Tracts Originating from the Maxillary Molars and Premolars.
 - 3.5.3. Fistulous Tracts Originating from the Anteroinferior Group.
 - 3.5.4. Fistulous Tracts Originating from the Mandibular Molars and Premolars.
 - 3.5.5. Cutaneous Fistulas of Dental Origin.
- 3.6. The Problems of Maxillary First and Second Molars in Endodontic Treatment. The 4th Canal.
 - 3.6.1. Anatomical Considerations of the Maxillary First Molars of Children or Adolescents.
 - 3.6.2. Anatomical Considerations of Adult Maxillary First Molars.
 - The Mesio-Buccal Root in the Maxillary First Molars. The 4th Canal or Mesio-Vesticulo-Palatine Canal and the 5th Canal.
 - 3.6.3.1. Ways to Detect the 4th Canal: See it Bleeding.
 - 3.6.3.2. Ways to Detect the 4th Canal: See its Entrance.
 - 3.6.3.3. Ways to Detect the 4th Canal: With a Manual File.
 - 3.6.3.4. Ways to Detect the 4th Canal: Using an Optical Microscope with Magnified Vision.
 - 3.6.3.5. Ways to Detect the 4th Canal: With a Mechanical File.
 - 3.6.4. The Disto-Buccal Root in the Maxillary First Molars.
 - 3.6.5. The Palatal Root in the Maxillary First Molars.
- 3.7. The Problems of Mandibular First and Second Molars in Endodontic Treatment. 3 Ducts in the Mesial Root or the Intermediate Canal.
 - 3.7.1. Anatomical Considerations of the Mandibular First Molars of Children or Adolescents.
 - 3.7.2. Anatomical Considerations of Adult Mandibular First Molars.
 - 3.7.2.1. The Mesial Root in the Mandibular First Molars.
 - 3.7.2.2. The Distal Root in the Mandibular First Molars.
 - 3.7.3. Mandibular Molars with 5 Ducts.
 - 3.7.4. Anatomical Considerations of Adult Mandibular Second Molars.
 - 3.7.4.1. C-Shaped Canal.
 - 3.7.4.2. Molars with a Single Canal.
 - 3.7.5. Anatomical Considerations of the Mandibular Wisdom Teeth.

Module 4. Surgery and Microsurgery in Endodontics

- 4.1. Surgical or Non-Surgical Retreatment. Decision-Making.
 - 4.1.1. Endodontic Surgery.
 - 4.1.2. Non-Surgical Retreatment.
 - 4.1.3. Surgical management
- 4.2. Basic Instruments.
 - 4.2.1. Scanning Tray.
 - 4.2.2. Anesthesia Tray.
 - 4.2.3. Rotary Instruments.
 - 4.2.4. Tipos de limas de endodoncia.
- 4.3. Types of Endodontic Files.
 - 4.3.1. Incision through the Gingival Sulcus.
 - 4.3.2. Gingival Flap.
 - 4.3.3. Triangular Flap.
 - 4.3.4. Trapezoidal Flap.
 - 4.3.5. Modified Semilunar Incision.
 - 4.3.6. Semilunar Incision.
- 4.4. Managing the Flap and Controlling Bleeding.
 - 4.4.1. Design of the Flap.
 - 4.4.2. Surgical Complication.
 - 4.4.3. General Considerations.
 - 4.4.4. Presurgical Considerations for Controlling Bleeding.
 - 4.4.5. Surgical Considerations for Controlling Bleeding.
 - 4.4.6. Local Anesthesia.
 - 4.4.7. Design and Elevation of the Flap.
- 4.5. Techniques and Materials Used for Retropreparation and Retro-Obturation.
 - 4.5.1. Mineral Trioxide Aggregate (MTA).
 - 4.5.2. Endodontic Application of MTA.
 - 4.5.3. Paraendodontic Surgery.
 - 4.5.4. Properties of MTA.
 - 4.5.5. Biodentine.

- 4.6. Ultrasonic Tips and Optical Microscope as Essential Equipment.
 - 4.6.1. Types of Tips.
 - 4.6.2. Optical Microscope.
 - 4.6.3. Surgical Microscope (S.M.).
 - 4.6.4. Appropriate Use of Instruments.
 - 4.6.5. Ultrasonic Devices and Designed Tips.
- 4.7. The Maxillary Sinus and Other Anatomical Structures with which we Can Interact.
 - 4.7.1. Neighboring Anatomical Structures.
 - 4.7.2. Maxillary Sinus.
 - 4.7.3. Inferior Alveolar Nerve.
 - 4.7.4. Mental Foramen.
- 4.8. Medication and Recommendations for Optimal Postoperative Care.

Module 5. Making Decisions between Root Canal Treatment, Retreatment, Apical Surgery, or Implant

- 5.1. Treat the Tooth or Extract It?
 - 5.1.1. Reasons to Extract a Tooth.
 - 5.1.2. Factors to Consider for Maintaining a Tooth.
- 5.2. Interrelation between Endodontics and Implants.
 - 5.2.1. Endodontic-Implant Pathology.
 - 5.2.2. Classification of Endodontic-Implant Pathology.
 - 5.2.3. Diagnosis of Endodontic-Implant Pathology.
 - 5.2.4. Treatment of Endodontic-Implant Pathology.
 - 5.2.5. Prevention of Endodontic-Implant Pathology.





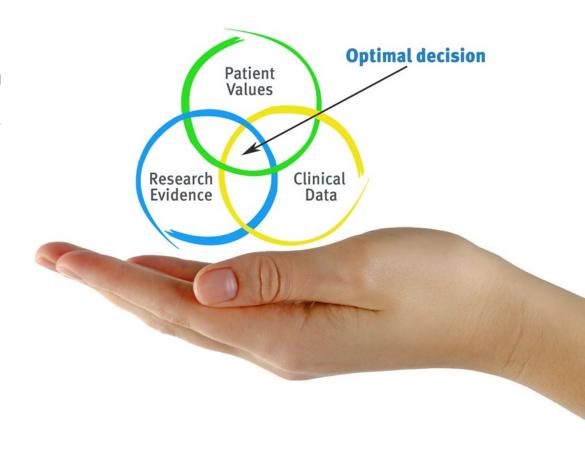


tech 24 | Methodology

At TECH we use the Case Method

In a given clinical situation, what would you do? Throughout the program you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method. Dentists learn better, faster, and more sustainably over time.

With TECH you can 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 potential 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:

- 1. Students 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. The learning process has a clear focus on practical skills that allow the student to better integrate into the real world.
- 3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
- 4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



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Re-Learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our 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, which represent a real revolution with respect to simply studying and analyzing 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 Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 115,000 students with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Re-learning 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 to success.

In our program, learning is not a linear process, but rather a spiral (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.

In this program you will have access to the best educational material, prepared with you in mind:



Study Material

All teaching material is produced specifically for the course by the specialists who teach the course, so that the teaching content is highly specific and precise.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Surgical Techniques and Procedures on Video

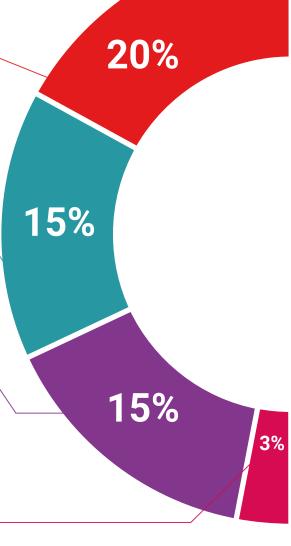
We introduce you to the latest techniques, to the latest educational advances, to the forefront of current dental techniques. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

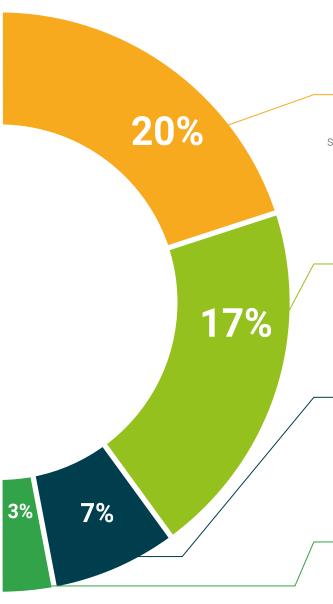
This multimedia content presentation training system was awarded by Microsoft as a "European Success Story".





Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.



Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Re-Testing

We periodically evaluate and re-evaluate your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your goals.



Classes

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





Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.







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This **Postgraduate Diploma in Reconstruction of Endodontic Teeth** contains the most complete and up-to-date scientific program on the market.

After passing the assessments, students receive their **Postgraduate Diploma** issued by **TECH Technological University** by tracked mail.

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

Title: Postgraduate Diploma in Reconstruction of Endodontic Teeth ECTS: 16

Official Number of Hours: 400 hours.



Reconstruction of Endodontic Teeth

This is a qualification awarded by this University, equivalent to 400 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro

his qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country

nique TECH Code: AFWORD23S techtitute.com/cer

^{*}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.

technological university

Postgraduate Diploma

Reconstruction of Endodontic Teeth

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