

Postgraduate Certificate

Closed Source Design Software
for Digital Dentistry



Postgraduate Certificate

Closed Source Design Software for Digital Dentistry

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

Website: www.techtute.com/us/dentistry/postgraduate-certificate/closed-source-design-software-digital-dentistry

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01

Introduction

In recent years, closed source software has started to be used in the field of dentistry to design and plan dental treatments such as implants, crowns or bridges. Thanks to its use, dentists can simulate the final result prior to its realization, in order to ensure that the procedure fully meets the patient's expectations. Therefore, having up-to-date knowledge of these programs is crucial for dentists who want to stay at the forefront of their discipline. In view of this situation, TECH has designed this program, which allows the student to delve into the sophisticated techniques of design with Exocad of provisional crowns or occlusal guards with Blender, in a 100% online way and without time constraints.



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Through this program, you will delve deeper into the state-of-the-art techniques of temporary crown design using Exocad”

As a result of technological advances, closed source design software has been implemented in the field of dentistry to help create accurate models of the patient's mouth. In this way, treatments can be customized based on the specific needs of each individual, improving the precision and quality of the interventions performed. Given the benefits it provides to patients, all dentists who want to stay current as professionals should know the ins and outs of these cutting-edge digital programs.

That is why TECH has developed the Postgraduate Certificate in Closed Source Design Software for Digital Dentistry, a complete program that will allow the student to identify the most relevant and up-to-date aspects in this field. During 6 weeks of training, you will learn the most up-to-date methods for the design of bridges, crowns and inlays with Exocad. In the same way, you will detect the techniques to create with Blender the Geller models, the discharge cell or the occlusal map, among other issues.

All this, following a very complete 100% online methodology, which will enable the student to study without the need to stick to uncomfortable pre-established schedules. Furthermore, this program is directed and taught by renowned specialists in the area of Digital Dentistry, who have extensive experience in the use of closed source design software. As a result, all the knowledge provided will be fully up-to-date.

This **Postgraduate Certificate in Closed Source Design Software for Digital Dentistry** 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 Digital 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 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



Take this Postgraduate Certificate and be able to know the state-of-the-art procedures to undertake the design of Geller models or discharge cells with Blender"

“

Combine your excellent dental update with your professional skills thanks to the 100% online methodology offered by this program"

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 educational year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

Be at the forefront of Digital Dentistry in only 180 hours and with the best specialists in the discipline.

With this program, you will learn the sophisticated procedures for preparing dental models for three-dimensional impressions.



02 Objectives

TECH has designed the Postgraduate Certificate in Closed Source Design Software for Digital Dentistry with the idea of offering its students the most up-to-date knowledge in this field. Through this program, you will delve into cutting-edge design strategies with Exocad or Blender to produce different types of dental materials. Such learning will be preserved through the achievement of the following general and specific objectives.





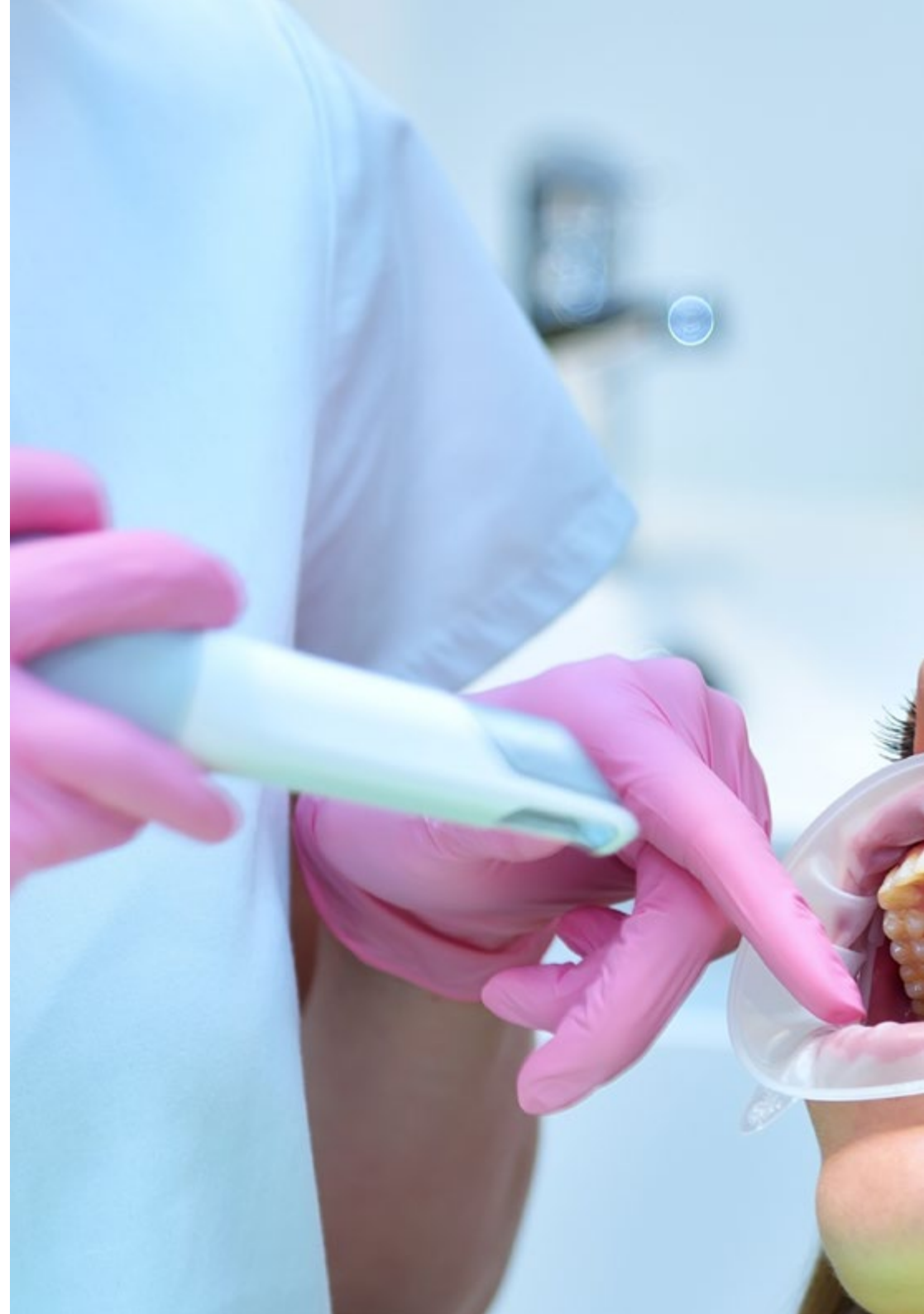
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Identify, through this program, the benefits offered by tools such as Exocad or Blender to establish the design of dental pieces”



General Objectives

- Increase the professional's knowledge of the application of digital technologies in the diagnosis, treatment and planning of clinical cases
- Know the techniques of digital orthodontics and computer-guided implant planning
- Develop skills in interdisciplinary communication and collaboration in teamwork, using digital technology as a tool
- Examine the application of acquired knowledge in clinical practice, in this way improving the quality of patient care





Specific Objectives

- ◆ Understand the basic concepts of closed source design software and its importance in the creation of software solutions
- ◆ Use closed source design software for the creation of graphical, user interface and user experience designs
- ◆ Develop skills in editing and manipulating graphic elements, such as images, shapes and typefaces
- ◆ Understand the basic concepts of programming and how they relate to the use of closed source design software



In just 6 weeks, you will acquire a series of up-to-date knowledge that will boost your professional development in the field of Dentistry"

03

Course Management

To maintain intact the excellent educational level that characterizes TECH programs, this teaching staff is made up of the best active specialists in Digital Dentistry, who have great skills in the world of dental design software. These professionals are responsible for designing all the teaching contents of this Postgraduate Certificate. Therefore, all the knowledge that they will transmit to the students will be in tune with the recent advances in the sector.



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Together with the best experts in Digital Dentistry, you will acquire cutting-edge knowledge of closed-source design software"

Management



Mr. Ulman, Darío

- ◆ Dentist Specializing in Implant Dentistry and Orthodontics
- ◆ Dentist in own practice
- ◆ International Intraoral Scanner Trainer
- ◆ Speaker Corner FONA
- ◆ Director of training courses for dentists
- ◆ Degree in Dentistry



Mr. Roisentul, Alejandro

- ◆ Director of the Oral and Maxillofacial Surgery Unit of Ziv Medical Center
- ◆ Clinical Instructor, Bar-Ilan University School of Medicine
- ◆ Regional Delegate for Asia of the Latin American Association of Buccomaxillofacial Surgery and Traumatology
- ◆ President of the Israeli Association of Oral and Maxillofacial Surgeons
- ◆ Winner of numerous awards and honorable mentions



Teachers

Ms. Maturana, María

- ◆ CAD Area Manager at Ztech Digital & Esthetics-Denteo
- ◆ 3D dental prostheses designer at the Angel Lorenzo Chiscano Laboratory
- ◆ 3D dental prosthesis designer at Ledesma Dental S.L
- ◆ Expert in dental prosthesis in Luis Somoza Dental Laboratory

04

Structure and Content

The syllabus of this Postgraduate Certificate has been carried out with the aim of providing dentists with the most up-to-date and relevant knowledge in Closed Source Design Software for Digital Dentistry. The teaching contents that the student will enjoy during the duration of this program are available in a wide range of textual and multimedia supports. As a result of this, and following a 100% online methodology, the student will receive a resolute education that is compatible with their daily obligations.



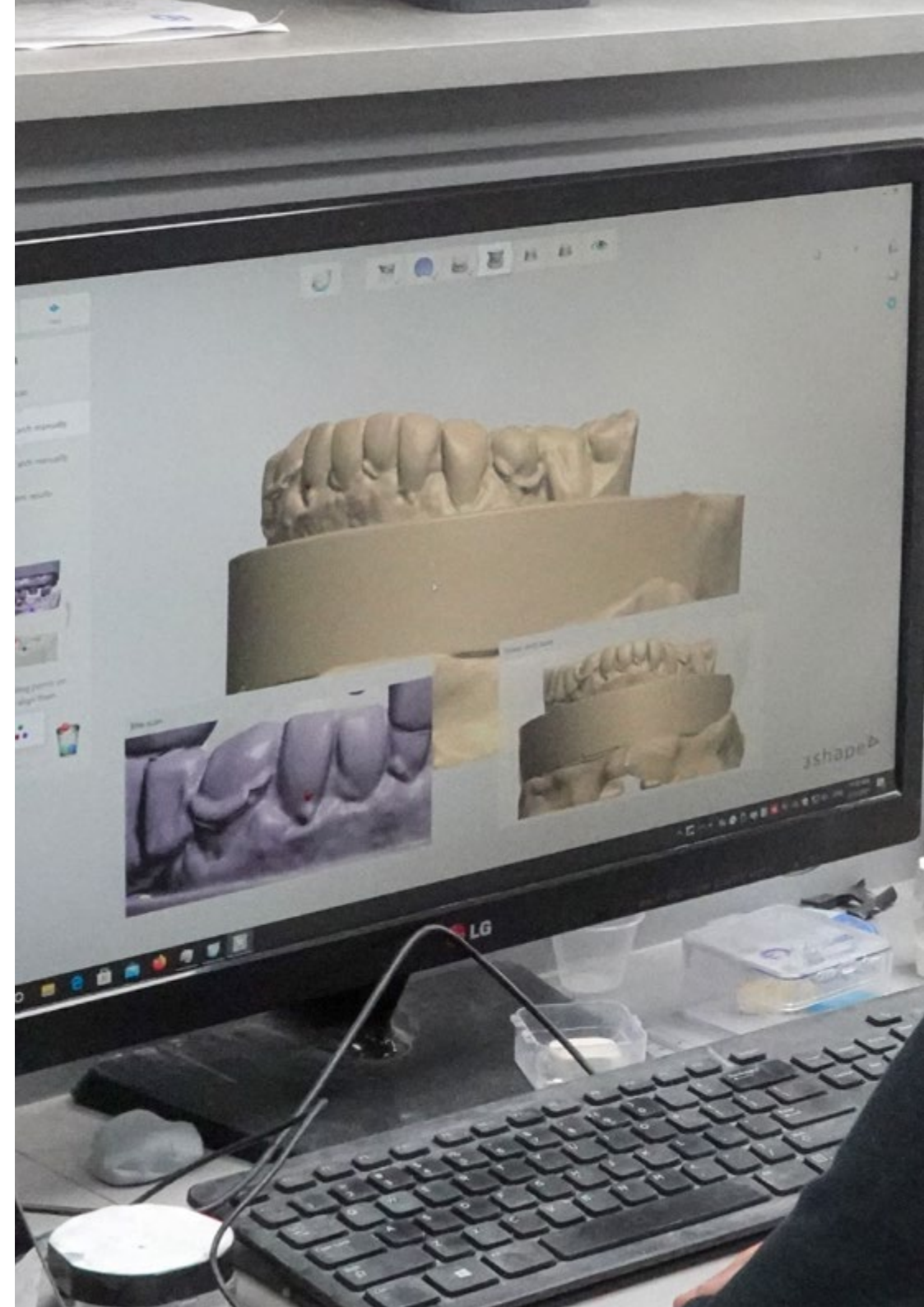


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This Postgraduate Certificate has a Relearning system that will allow you to study at your own pace and without time constraints”

Module 1. Closed Source Design Software

- 1.1. Exocad Design
 - 1.1.1. Data Upload
 - 1.1.2. Work Order
 - 1.1.3. CAD design, File Import
 - 1.1.4. CAD Design, Design Tools
- 1.2. Exocad Design of Temporary Crowns
 - 1.2.1. Work Order
 - 1.2.2. Material Selection
 - 1.2.3. Crown Design
 - 1.2.4. File Export
- 1.3. Exocad Bridge Design
 - 1.3.1. Work Order
 - 1.3.2. Material Selection
 - 1.3.3. Bridge Design
 - 1.3.4. File Export
- 1.4. Inlay Design with Exocad
 - 1.4.1. Work Order
 - 1.4.2. Material Selection
 - 1.4.3. Inlay Design
 - 1.4.4. File Export
- 1.5. Design of Crowns on Implants with Exocad
 - 1.5.1. Work Order
 - 1.5.2. Material Selection
 - 1.5.3. Crown Design on Implants
 - 1.5.4. File Export





- 1.6. Blender Design of Geller Models
 - 1.6.1. File Import
 - 1.6.2. Geller Model Design
 - 1.6.3. Geller Model Tools
 - 1.6.4. Geller Model Manufacturing
- 1.7. Blender Design of Discharge Cell Design
 - 1.7.1. File Import
 - 1.7.2. Geller Model Design
 - 1.7.3. Geller Model Tools
 - 1.7.4. Geller Model Manufacturing
- 1.8. Blender Design of Occlusal Guard
 - 1.8.1. File Import
 - 1.8.2. Geller Model Design
 - 1.8.3. Geller Model Tools
 - 1.8.4. Geller Model Manufacturing
- 1.9. Blender Design of Occlusal Map
 - 1.9.1. Blender Software Functions and Tools for Occlusal Mapping
 - 1.9.2. Occlusal Map
 - 1.9.3. Occlusal Map Interpretation
 - 1.9.4. Occlusal Map Analysis
- 1.10. Design with Blender for 3D Printing Model Preparation
 - 1.10.1. Data Science
 - 1.10.2. Model Selection
 - 1.10.3. Digital Model Repair
 - 1.10.4. Model Labeling and Export



Enroll in this program and enjoy the most cutting-edge teaching content on the market in Closed Source Design Software for Digital Dentistry"

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. Gervas, 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

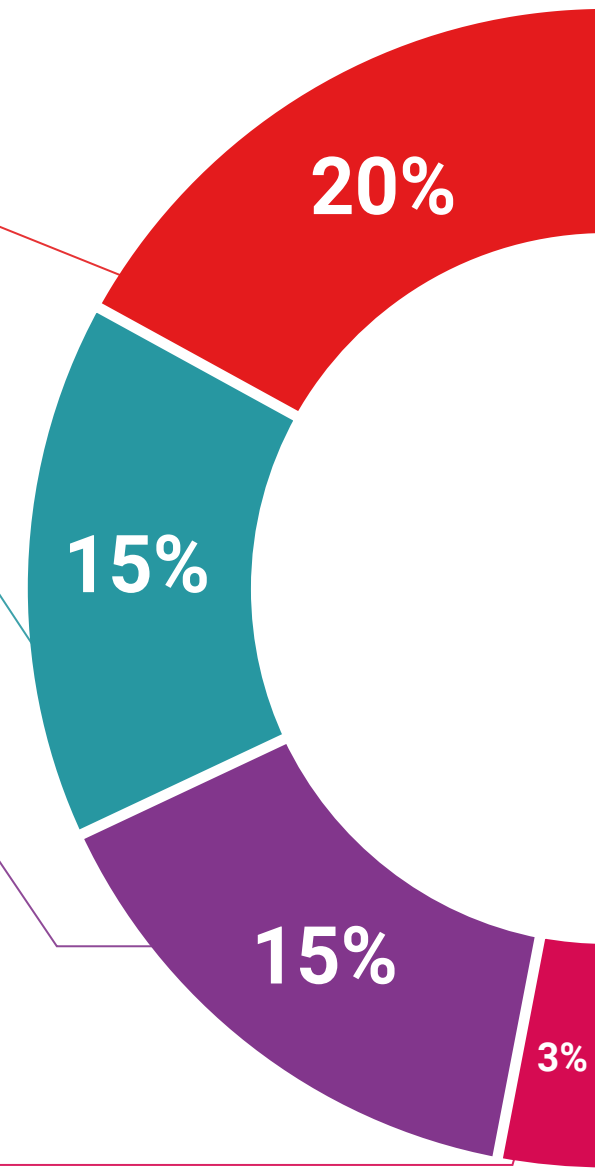
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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 Closed Source Design Software for Digital Dentistry 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 program will allow you to obtain your **Postgraduate Certificate in Closed Source Design Software for Digital Dentistry** 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.

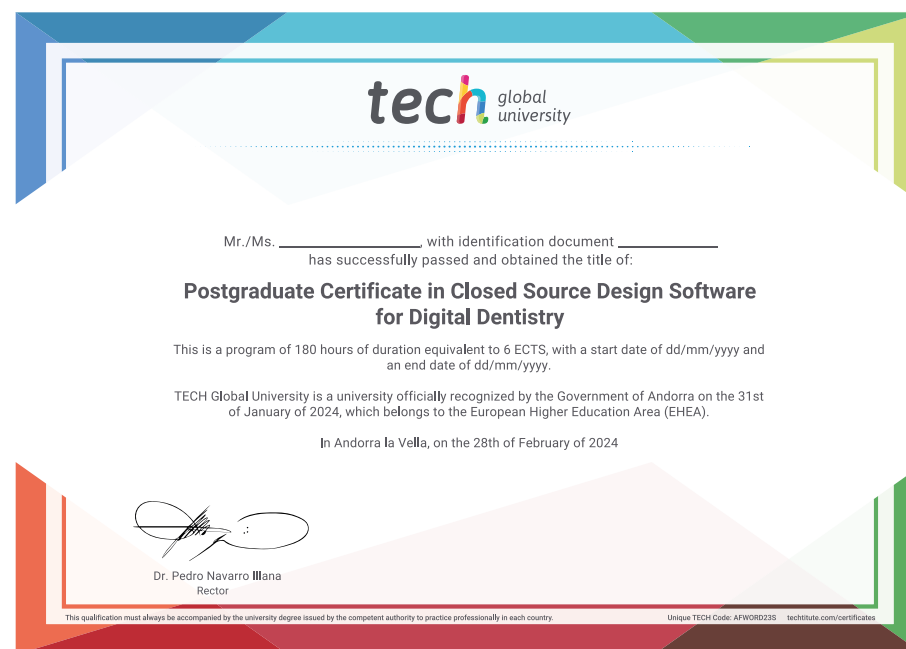
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Closed Source Design Software for Digital Dentistry**

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.



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