Postgraduate Certificate
Polygonal Modeling in 3D Studio Max

tech global university

Postgraduate Certificate
Polygonal Modeling
in 3D Studio Max

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

Website: **www.techtitute.com/us/design/postgraduate-certificate/polygonal-modeling-3d-studio-max**

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01
Introduction

Graphic design is one of the branches that has evolved the most in the last decades, reaching functions not only in the virtual dimension, but also in the physical production and industry, thanks to, among other tools, three-dimensional modeling. Being updated in Polygonal Modeling in 3D Studio Max has never been so easy. Thanks to this education, the program that has revolutionized 3D design will be more accessible and easier to use in just 6 weeks, adding value with this new knowledge to companies in the sector, to one's own professional career or to creativities and portfolios.

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Upgrade your knowledge in Polygonal Modeling in 3D Studio Max in only 6 weeks with this Postgraduate Certificate"

The Postgraduate Certificate in Polygonal Modeling in 3D Studio Max offered by TECH Global University is focused on design professionals who need to expand their knowledge and versatility in the field of three-dimensional modeling. The online program facilitates access to multimedia content from anywhere and at any time to make it easier to make learning compatible with day-to-day life.

This Postgraduate Certificate aims to introduce students to the use of the 3D Studio Max program and enable them to put it into practice once they have acquired the theoretical knowledge. Therefore, the study plan covers those aspects essential for the use and management of the program. In this way, the user learns to work with customized configurations and also delves into the knowledge, behaviors and smoothing of meshes.

Likewise, the contents focus on the conception of geometries through various methods, on the application of object transformation techniques and on gaining knowledge of the creation of UV maps.

This **Postgraduate Certificate in Polygonal Modeling in 3D Max** contains the most complete and up-to-date educational program on the market. Its most notable features are:

- The development of case studies presented by engineering experts focused on polygonal modeling in 3D Studio Max
- 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

Introduce yourself to the knowledge, behaviors and mesh smoothing in polygonal modeling in 3D Studio Max"

Be an expert in customized configurations and in applying 3D object transformation techniques thanks to the knowledge you will acquire with this Postgraduate Certificate"
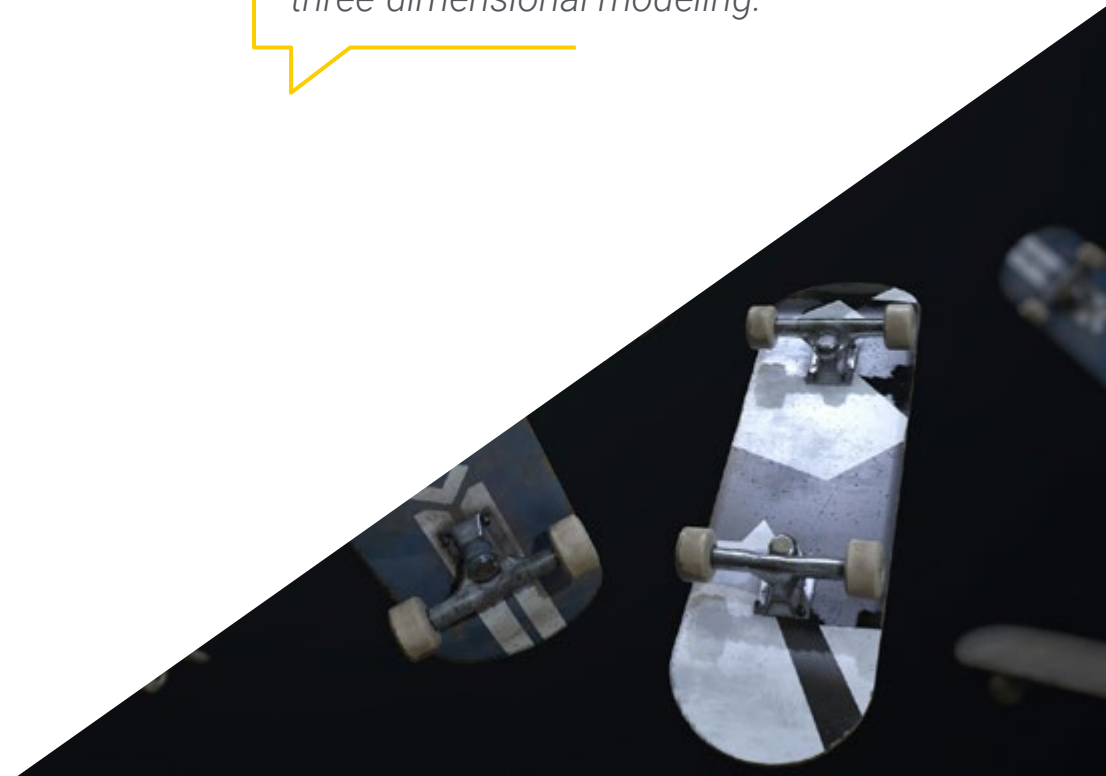
Become a 3D Studio Max Polygonal Modeling ace in 6 weeks thanks to this Postgraduate Certificate.

Turn your career path around and acquire the best skills in three-dimensional modeling.

The program's teaching staff includes professionals from sector who contribute their work experience to this 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.

Objectives

The objective of this Postgraduate Certificate is to introduce students to the control and management of the most important three-dimensional modeling programs in the world. Therefore, it will have the most current and practical content, with which you will have a variety of exercises to edit and transform geometries, organize scenes and learn to model with 3D Studio Max.

With clear and defined objectives, TECH helps you to achieve your degree and to consolidate your knowledge in the fastest and most practical way"

General Objectives

- Delve into the theory of shape creation in order to develop Shape Masters
- Learn in detail the basics of 3D modeling in its different forms
- Generate designs for different industries and their application
- Know all the tools involved in the 3D modeling profession
- Acquire skills for the development of textures and FX of 3D models

Specific Objectives

- Possess extensive knowledge of using 3D Studio Max
- Work with custom settings
- Have an in-depth understanding of how mesh smoothing works
- Conceive geometries through a variety of methods
- Develop an understanding of how a mesh behaves
- Apply object transformation techniques
- Have knowledge of creating UV maps

"This online Postgraduate Certificate is designed to help you achieve your goals"

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Course Management

This program has been designed thanks to the expertise of a select teaching staff. They are professionals of the highest level and are interested in providing the most current and cutting-edge content in the design sector. Students will be able to learn how to create different surfaces regardless of the field in which they specialize, completing their studies in a sector of great demand at an international level.

Reach the top of your career in the company of the best professionals and experts in hard texture modeling"

Management

Mr. Salvo Bustos, Gabriel Agustín

- CEO at D- SAVE 3D services
- Experience in Aeronautical 3D Modeling
- 3D Artist at 3D VISUALIZATION SERVICE INC
- 3D Production for Boston Whaler
- 3D Modeler at Shay Bonder Multimedia TV Production Company
- Audiovisual Producer at Digital Film
- Product Designer for Escencia de los Artesanos by Eliana M
- Industrial Designer Specializing in Products. National University of Cuyo
- Honorable Mention in the Mendoza Late Contest
- Exhibitor at the Regional Visual Arts Salon Vendimia
- Digital Composition Seminar. National University of Cuyo
- National Congress of design and production. CPRODI

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Structure and Content

The content of this Postgraduate Certificate has been designed based on the need to introduce polygonal modeling in 3D Studio Max, following the specificity of a sector and the requirements proposed by the teaching team. In this way, the Postgraduate Certificate provides students with the necessary tools to put learning into practice, as well as the necessary knowledge in case they would like to continue advancing within the same program. Students will broaden their knowledge, which will enable them to develop professionally and add value to their career path and personal brand.
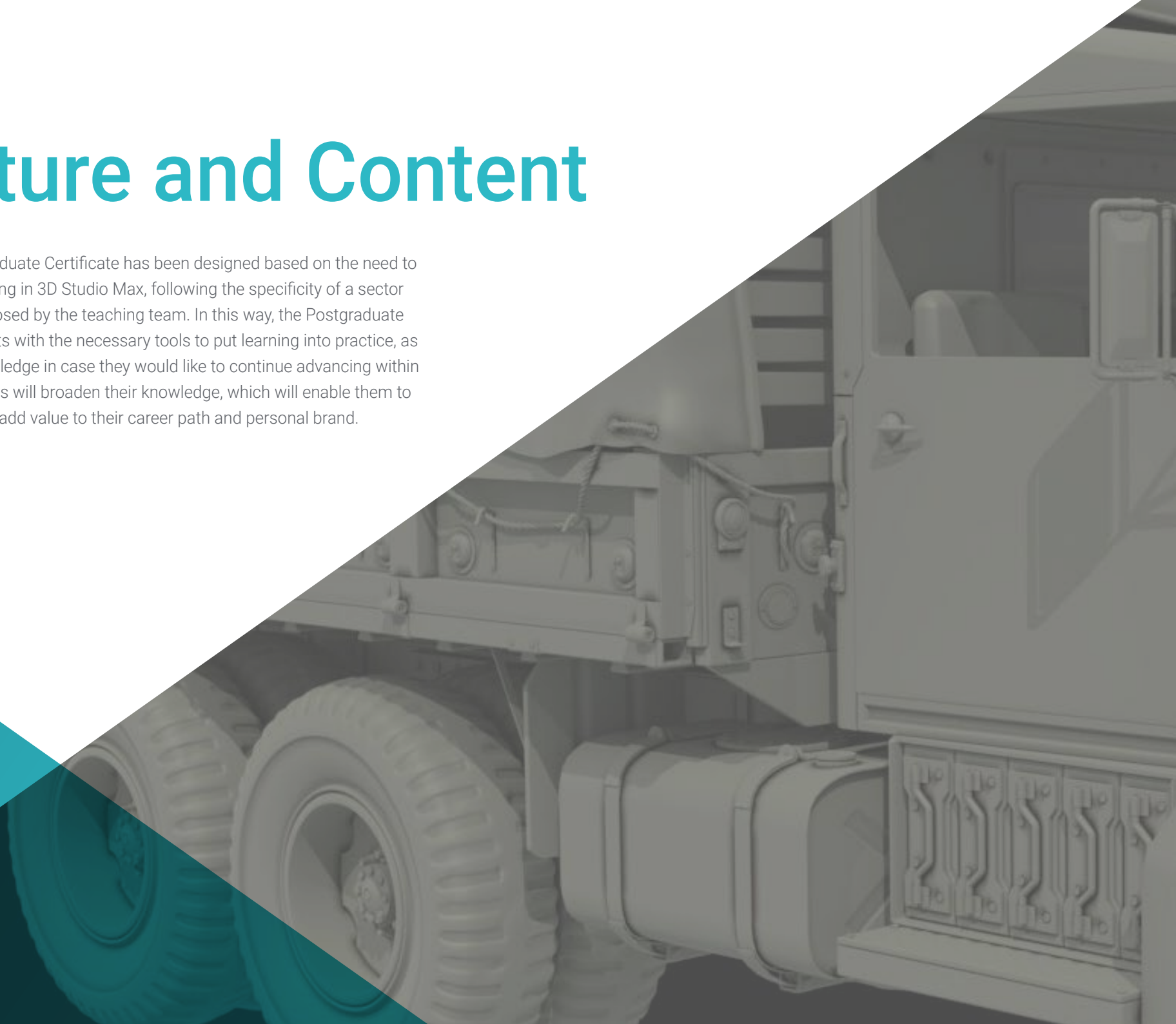
This Postgraduate Certificate is tailor-made to discover and use Polygonal Modeling in 3D Studio Max"

Module 1. Polygonal Modeling in 3D Studio Max

1.1. 3D Studio Max
 1.1.1. 3DS Max Interface
 1.1.2. Custom Settings
 1.1.3. Modeling with Primitives and Deformers

1.2. Reference Modeling
 1.2.1. Reference Image Creation
 1.2.2. Hard Surface Smoothing
 1.2.3. Scene Organization

1.3. High Resolution Meshing
 1.3.1. Basic Smoothed Modeling and Smoothing Groups
 1.3.2. Modeling with Extrusions and Bevels
 1.3.3. Using the Turbosmooth Modifier

1.4. Spline Modeling
 1.4.1. Modifying Curvatures
 1.4.2. Configuring Polygon Faces
 1.4.3. Extruding and Spherizing

1.5. Creating Complex Shapes
 1.5.1. Setting Up Components and Work Grid
 1.5.2. Duplicating and Welding Components
 1.5.3. Cleaning Polygons and Smoothing

1.6. Modeling With Edge Cuts
 1.6.1. Creating and Positioning the Template
 1.6.2. Making Cuts and Cleaning Topology
 1.6.3. Extruding Shapes and Creating Folds

1.7. Modeling from Low Poly Model
 1.7.1. Starting with the Basic Shape and Adding Chamfers
 1.7.2. Adding Subdivisions and Generating Edges
 1.7.3. Cutting, Welding and Detailing
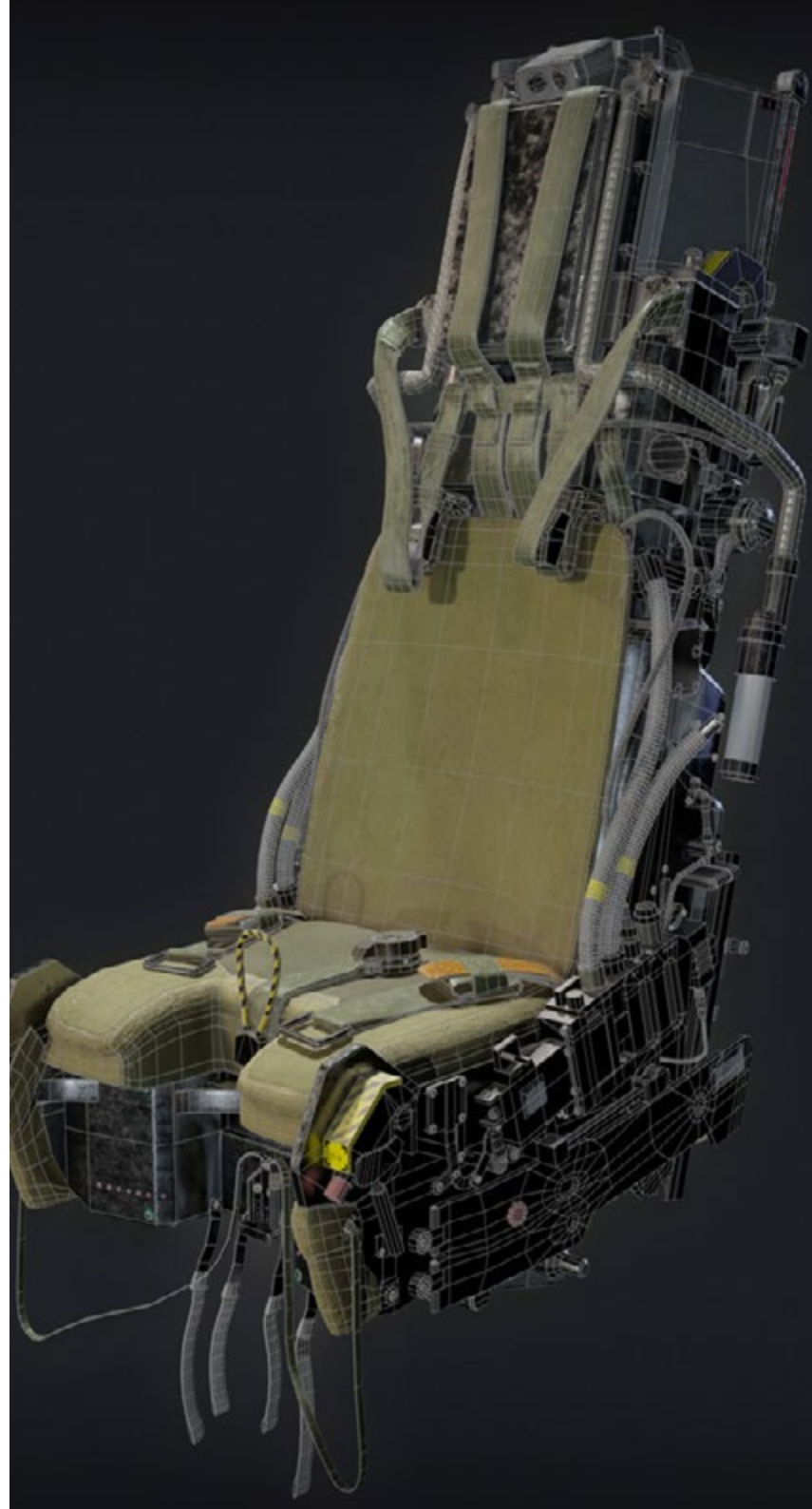
A complete program that will lay the foundations to become an expert designer in three-dimensional odelling"

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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.

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"

Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

"
At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world"

You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.

The student will learn to solve complex situations in real business environments through collaborative activities and real cases.

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.

> *Our program prepares you to face new challenges in uncertain environments and achieve success in your career"*

The case method is the most widely used learning system in the best faculties in the world. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.

Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

In 2019, we obtained the best learning results of all online universities in the world.

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.

01 learning from evidence

02 relearning from evidence

03 testing

04 learning from an expert

05 neurocognitive context dependent learning

06 Von-Restorff effect

07 case based learning through storytelling

08 competencies testing (retesting)

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. With this methodology we have trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, markets, and financial instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

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.

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.

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.

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.

Practising Skills and Abilities

They will carry out activities to develop specific competencies and skills in each thematic area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.

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.

30%

10%

8%

20%

25%

4%

3%
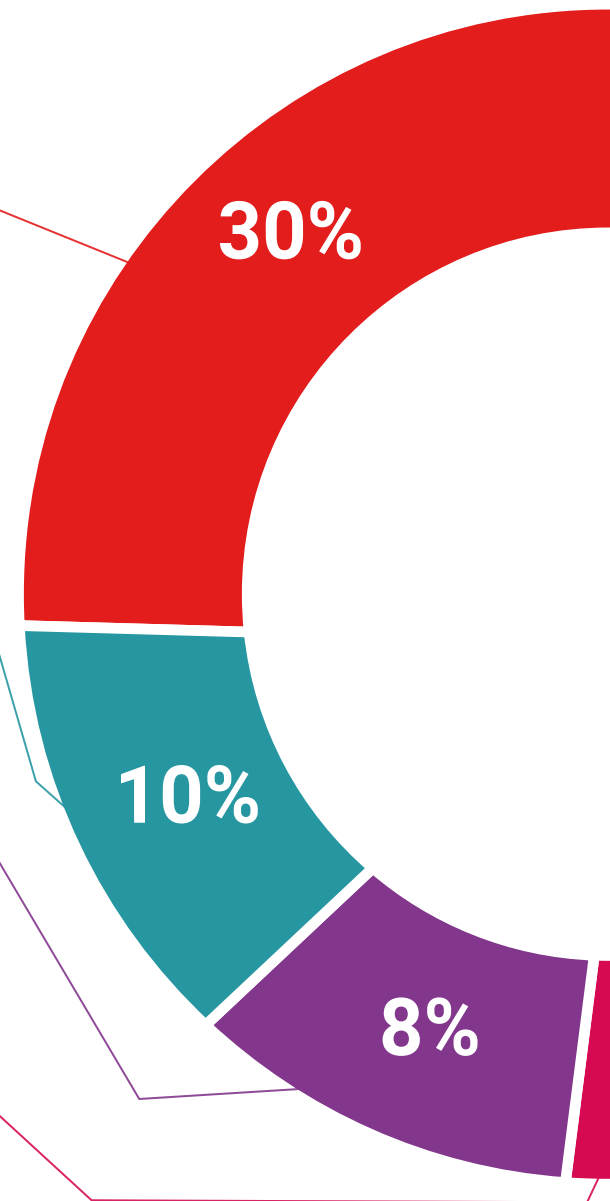
Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best specialists in the world.

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".

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.

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Certificate

The Postgraduate Certificate in Polygonal Modeling in 3D Studio Max guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.

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 Polygonal Modeling in 3D Studio Max** 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.
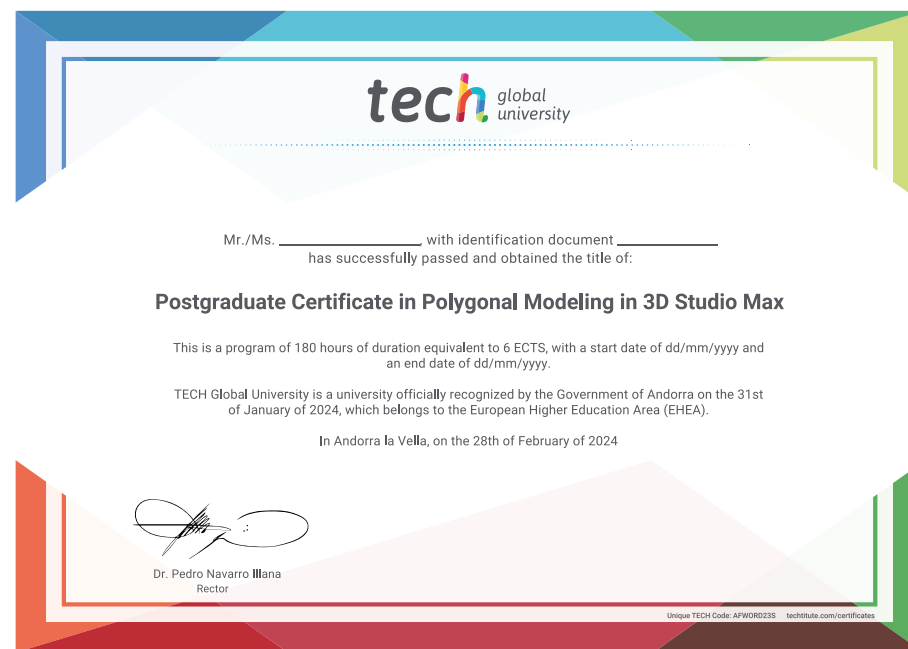
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Polygonal Modeling in 3D Studio Max**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**

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tech global university

Mr./Ms. _____ with identification document _____
has successfully passed and obtained the title of:

Postgraduate Certificate in Polygonal Modeling in 3D Studio Max

This is a program of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
Rector

Unique TECH Code: AFWORD23S   techtitute.com/certificates

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*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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