

# Postgraduate Certificate

## Low Poly Modeling in 3D Studio Max



## Postgraduate Certificate Low Poly Modeling in 3D Studio Max

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

Website: [www.techtitute.com/in/design/postgraduate-certificate/low-poly-modeling-3d-studio-max](http://www.techtitute.com/in/design/postgraduate-certificate/low-poly-modeling-3d-studio-max)

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# 01

# Introduction

Digital artists, when creating, have at their disposal a large number of tools and techniques to bring their ideas to life. Therefore, this program combines a type of 3D modeling, such as Low Poly, with a computer graphics program called 3D Studio Max. Design professionals are looking for a technique that simplifies shapes and drastically reduces loads in video games and other products. Therefore, this program meets their needs. In addition, through its online format, students can set their own learning pace and combine teaching with their work and personal responsibilities.



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*With the Low Poly technique, you will learn to reduce time and work in a more fluid way. That's why this Postgraduate Certificate is for you. Enroll, don't lose your place"*

Low Poly is a booming technique in the world of design, as it allows to create with a very low number of polygons, tests or versions of design samples that simplify shapes and details. Therefore, through this educational program and the 3D Studio Max platform, digital artists will be able to create and visualize pieces, adding and incorporating subcomponents.

This Postgraduate Certificate will allow professionals to design massive game worlds, learn to produce detailed characters and customize construction environments. In other words, through this program, students will develop new skills that will broaden their academic experience and enhance their knowledge of new technologies.

The teachers are qualified professionals and experts in the field. Therefore, they will teach designers to create unique models. Throughout their professional career, they have analyzed how the powerful 3D Studio Max software can become the students' ally, saving them a significant amount of work time for the presentation of their projects.

On a positive note, the qualification is suitable for professionals who wish to balance the Postgraduate Certificate with their personal and work responsibilities as it is 100% online. In addition, it is expected that the future graduates will stand out in their work field not only for knowing how to apply avant-garde methods such as the one taught, but also for their ability to master new technologies.

This **Postgraduate Certificate in Low Poly Modeling in 3D Studio Max** contains the most complete and up-to-date program on the market. The most important features include:

- ◆ The development of case studies presented by experts in 3D Studio Max modeling software
- ◆ The graphic, schematic, and practical contents with which they are created, provide 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



*Achieve really attractive finishes and textures using simple techniques such as Low Poly Modeling"*



*Big companies are looking for professionals like you: able to obtain the most current skills in the market by taking growth opportunities such as this Postgraduate Certificate"*

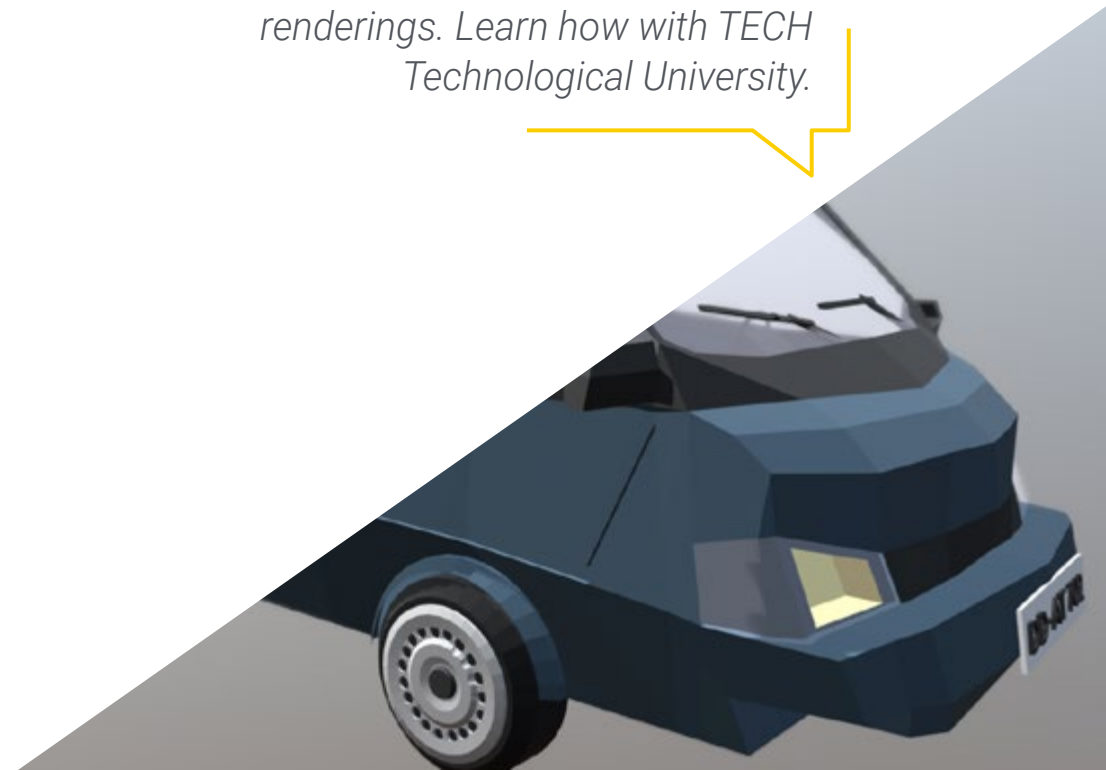
The program's teaching staff includes professionals from the fashion industry, who contribute with their work experience, as well as renowned specialists from leading companies and prestigious universities.

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 an immersive learning experience designed to prepare for real-life 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 professional will be assisted by an innovative interactive video system created by renowned and experienced experts.

*TECH Technological University programs offer added value for their quality and teachers. Increase your knowledge in Low Poly and become an expert.*

*Low Poly allows you to give a lower resolution to your compositions providing greater speed to your renderings. Learn how with TECH Technological University.*



# 02 Objectives

The main objective of this Postgraduate Certificate in Low Poly Modeling in 3D Studio Max is to offer the professional the latest tools in the design field. In this way, the students will be able to incorporate the knowledge to their projects simultaneously while studying the educational program. In this way, they will be able to experience a fast and efficient professional progress thanks to the solutions and techniques that TECH Technological University makes available to them.





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*Be able to bring value and new work strategies not only to your clients, but also to your employees. Become the professional designer you want"*

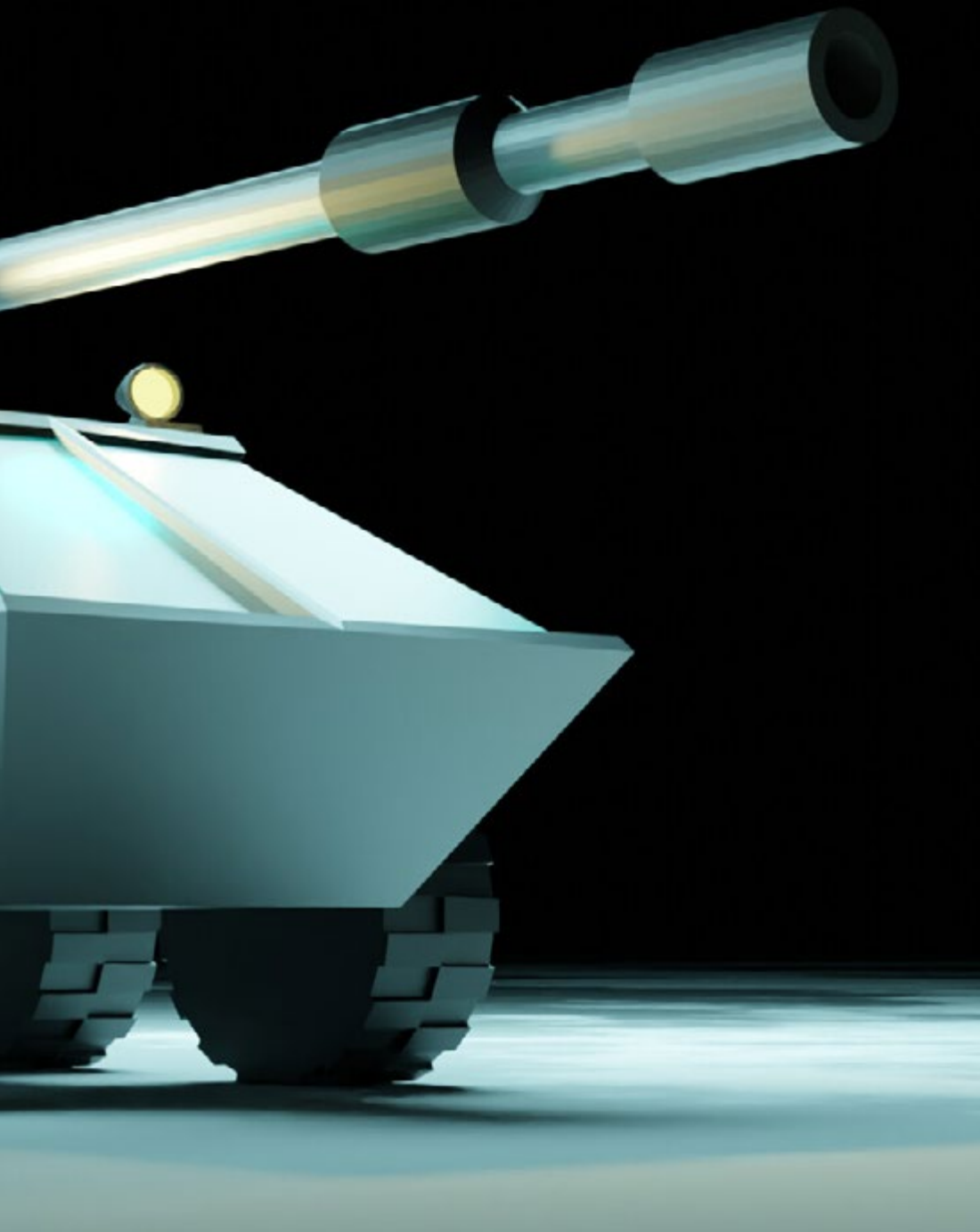


## General Objectives

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- ◆ To have a comprehensive knowledge of 3D modeling through 3D Studio Max software and its Low Poly modeling technique
- ◆ Delve into the theory of shape creation to develop shape masters
- ◆ Learn in detail the Low Poly technique in 3D Studio Max software
- ◆ Generate designs for different industries and their application
- ◆ Be a technical expert and/or artist in 3D Studio Max software, applying the Low Poly technique
- ◆ Know all the tools involved in the 3D modeling profession





## Specific Objectives

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- ◆ Working on the basis of basic shapes for mechanical models
- ◆ Develop the ability to decompose elements
- ◆ Understand in depth how detail makes for realism
- ◆ Solve different techniques to develop details
- ◆ Understand how mechanical parts are connected

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*Set yourself goals and make this Postgraduate Certificate in Low Poly Modeling in 3D Studio Max one of them"*

03

# Course Management

In order to ensure that the student's learning process is carried out in a proper way, TECH Technological University selects a teaching staff with high level profiles. Through its teaching, the student will be able to understand in depth how the Low Poly technique notoriously improves their projects and makes them more realistic, therefore becoming a designer in great demand internationally.





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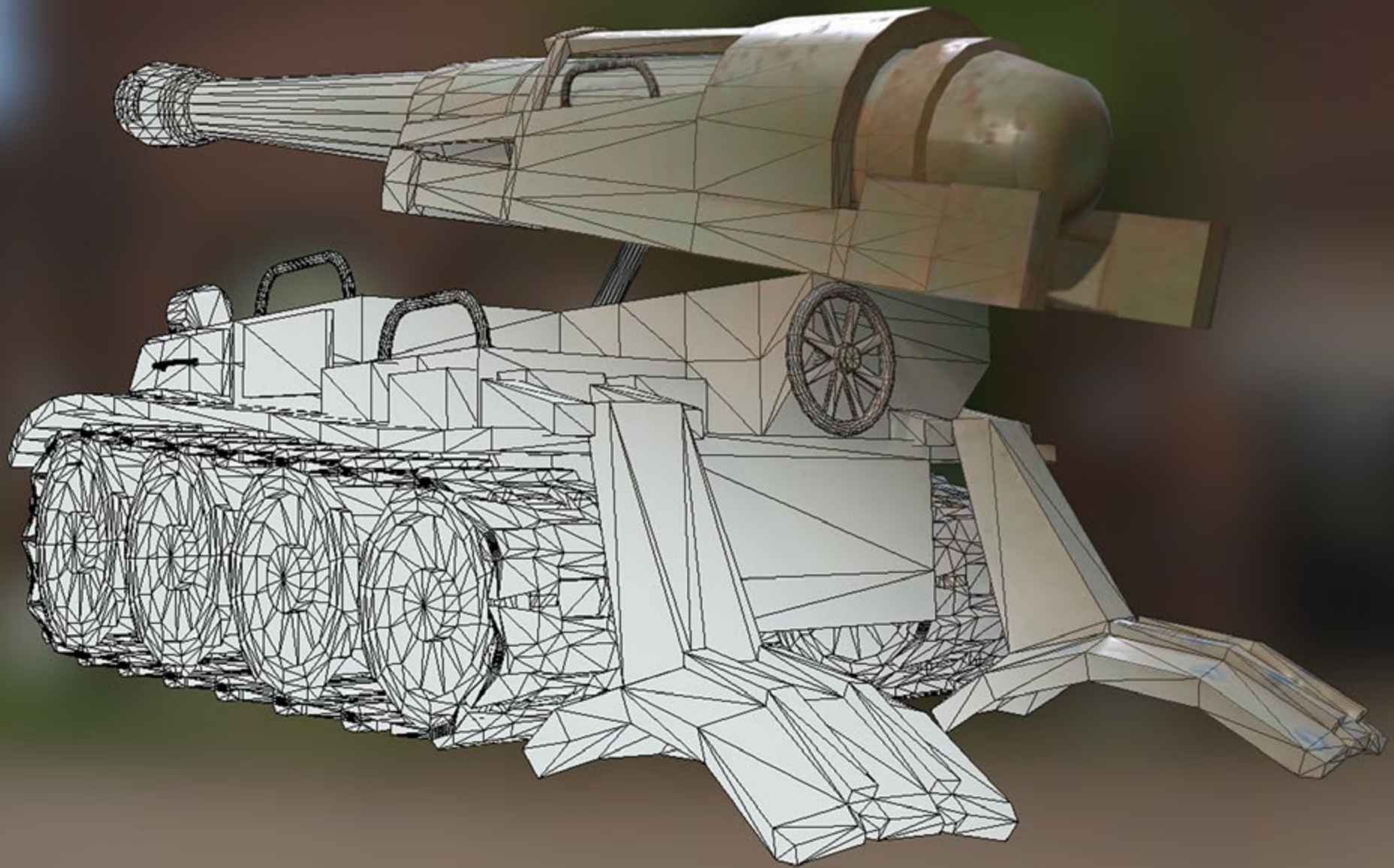
*New technologies have developed  
new techniques in the field of design.  
That's why having a good teacher is  
the key to stand out as professionals"*

## 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. C.P.R.O.D.I



# 04

# Structure and Content

The student, throughout the educational program, by combining theory with practice, will acquire the knowledge and skills necessary to become an expert in Low Poly Modeling. Thanks to the comprehensive contents of the program, students will be able to learn in depth the tools offered by the 3D Studio Max platform when perfecting the polygon creation technique. All this will enable them to act correctly in the different scenarios that may arise in their professional practice.







“

*This Postgraduate Certificate is for you: transform your professional career as a designer. Enjoy up-to-date and quality content that will enhance your skills"*

## Module 1. Low Poly 3D Studio MAX Modeling

- 1.1. Heavy Machinery Vehicle Modeling
  - 1.1.1. Creation of the Volumetric Model
  - 1.1.2. Volumetric Modeling of the Crawler Tracks
  - 1.1.3. Volumetric Construction of the Shovel
- 1.2. Incorporating Different Components
  - 1.2.1. Cab Volumetry
  - 1.2.2. Volumetry of the Mechanical Arm
  - 1.2.3. Volumetry of the Mechanical Shovel Sword
- 1.3. Adding Subcomponents
  - 1.3.1. Creating Shovel Teeth
  - 1.3.2. Adding the Hydraulic Piston
  - 1.3.3. Connecting Subcomponents
- 1.4. Incorporating Details to Volumetrics I
  - 1.4.1. Creating *Caterpillars*
  - 1.4.2. Incorporating Track Bearings
  - 1.4.3. Defining the Track Housing
- 1.5. Incorporating Details to Volumetrics II
  - 1.5.1. Chassis Subcomponents
  - 1.5.2. Bearing Covers
  - 1.5.3. Adding Parts Cuts
- 1.6. Incorporating Details to Volumetrics III
  - 1.6.1. Creating Radiators
  - 1.6.2. Adding the Hydraulic Arm Base
  - 1.6.3. Creating the Exhaust Pipes



- 1.7. Incorporating Details to Volumetrics IV
  - 1.7.1. Creating the Protective Cabin Grille
  - 1.7.2. Adding Piping
  - 1.7.3. Adding Nuts, Bolts and Rivets
- 1.8. Developing the Hydraulic Arm
  - 1.8.1. Creating the Supports
  - 1.8.2. Retainers, Washers, Screws and Connections
  - 1.8.3. Creation of the Head
- 1.9. Developing the Cabinet
  - 1.9.1. Defining the Housing
  - 1.9.2. Adding Windshields
  - 1.9.3. Door Handle and Headlight Details
- 1.10. Mechanical Development of the Excavator
  - 1.10.1. Creating the Body and Teeth
  - 1.10.2. Creating the Tooth Roller
  - 1.10.3. Wiring with Splines, Connectors and Fasteners



*TECH offers you the best Postgraduate Certificate in Low Poly Modeling in 3D Studio Max on the market. Give yourself the opportunity to acquire new knowledge and enhance your skills"*

# 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.



“

*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.*



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

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.





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.





#### 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.



06

# Certificate

The Postgraduate Certificate in Low Poly 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 Technological University.



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

This **Postgraduate Certificate in Low Poly Modeling in 3D Studio Max** contains the most complete and up-to-date educational program on the market.

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

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

Title: **Postgraduate Certificate in Low Poly Modeling in 3D Studio Max**

Official N° of Hours: **150 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.

future  
health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present  
development language  
virtual classroom



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