

Postgraduate Certificate

Advanced 3D Modeling with 3DS Max





Postgraduate Certificate

Advanced 3D Modeling with 3DS Max

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

Website: www.techtute.com/us/design/postgraduate-certificate/advanced-3d-modeling-3ds-max

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01

Introduction

The field of specialization of 3D Modeling with leading programs such as 3DS Max Advanced requires more and more professional experts in the field. This plan focuses on deepening in the most advanced options of this program and its utilities, as it focuses on more specific notions, taught with the best teaching resources and in online mode. Therefore, in addition to increasing work possibilities and professional progress, the result will be an expert profile in a field increasingly required by the design, animation or industrial production industry.



“

Progress professionally in the world of 3D modeling thanks to this Postgraduate Certificate, with which you will be able to deepen in the use of the 3DS Max Advanced tool"

If you already have some control over the 3DS Max program, this Postgraduate Certificate is perfect to continue delving into its more complex functionalities and at the same time ensure a better adaptation of the designer to the current challenges in the three-dimensional design industry. This plan is designed precisely to develop in depth on two forms of editing offered by the tool and use them according to the purpose or type of modeling.

Among its objectives are also the teaching of all types of editing of the program to use it in the fastest and most efficient way, as well as to know and handle the most advanced tools of the program. Finally, the plan facilitates the introduction to *Plugins* and *Scripts* to use them for the benefit of the modeling developed by the designer.

This Postgraduate Certificate highlights a comprehensive approach to the 3DS Max program, which provides designers with skills and abilities superior to those of another person who only handles this tool at a basic level. Therefore, this more advanced study plan gives continuity to more basic notions and aims to meet the needs of the most demanding users or those who want to expand their knowledge in the field of three-dimensional design.

Designed for today's workers or students, who combine different tasks on a daily basis, this Postgraduate Certificate combines the fundamental characteristics to be able to combine life with the updating and acquisition of new knowledge: online mode and access to all the multimedia material from anywhere with an Internet connection.

This **Postgraduate Certificate in Advanced 3D Modeling with 3DS 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 Modeling with 3DS Max
- ♦ 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



If you have an Internet connection and want to update your knowledge in 3DS Max this is your Postgraduate Certificate"

“*If you need to improve your knowledge in 3DS Max, don't wait any longer and sign up for this Postgraduate Certificate, which will give you the keys to become an expert*”

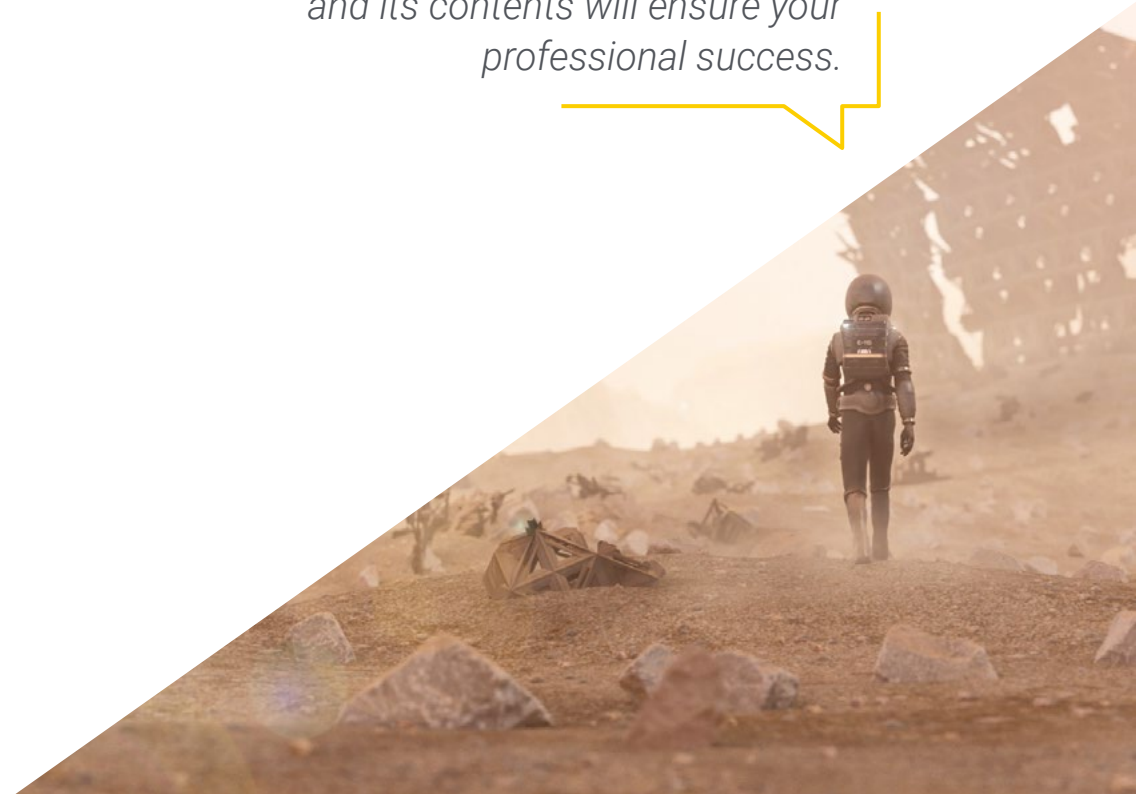
The program's teaching staff includes professionals from the sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will allow professionals to learn in a contextual and situated learning environment, i.e., a simulated environment that will provide immersive education programmed to prepare in real situations.

The design of this program focuses on Problem-Based Learning, by means of which professionals must try to solve the different professional practice situations that are presented to them throughout the course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

Do not put obstacles to your own possibilities and combine our online Postgraduate Certificate with your personal and professional life.

This TECH program will allow you to study at your own pace and its contents will ensure your professional success.



02 Objectives

The Postgraduate Certificate in Advanced 3D Modeling with 3DS Max is a complete plan designed for those who need to continue improving their skills in 3D modeling. The main idea is that users get to know in depth all the steps to create a professional 3D modeling and master the most complex editing tools. After completing this educational program, users successfully pass the Postgraduate Certificate and are able to face the challenges of the profession.





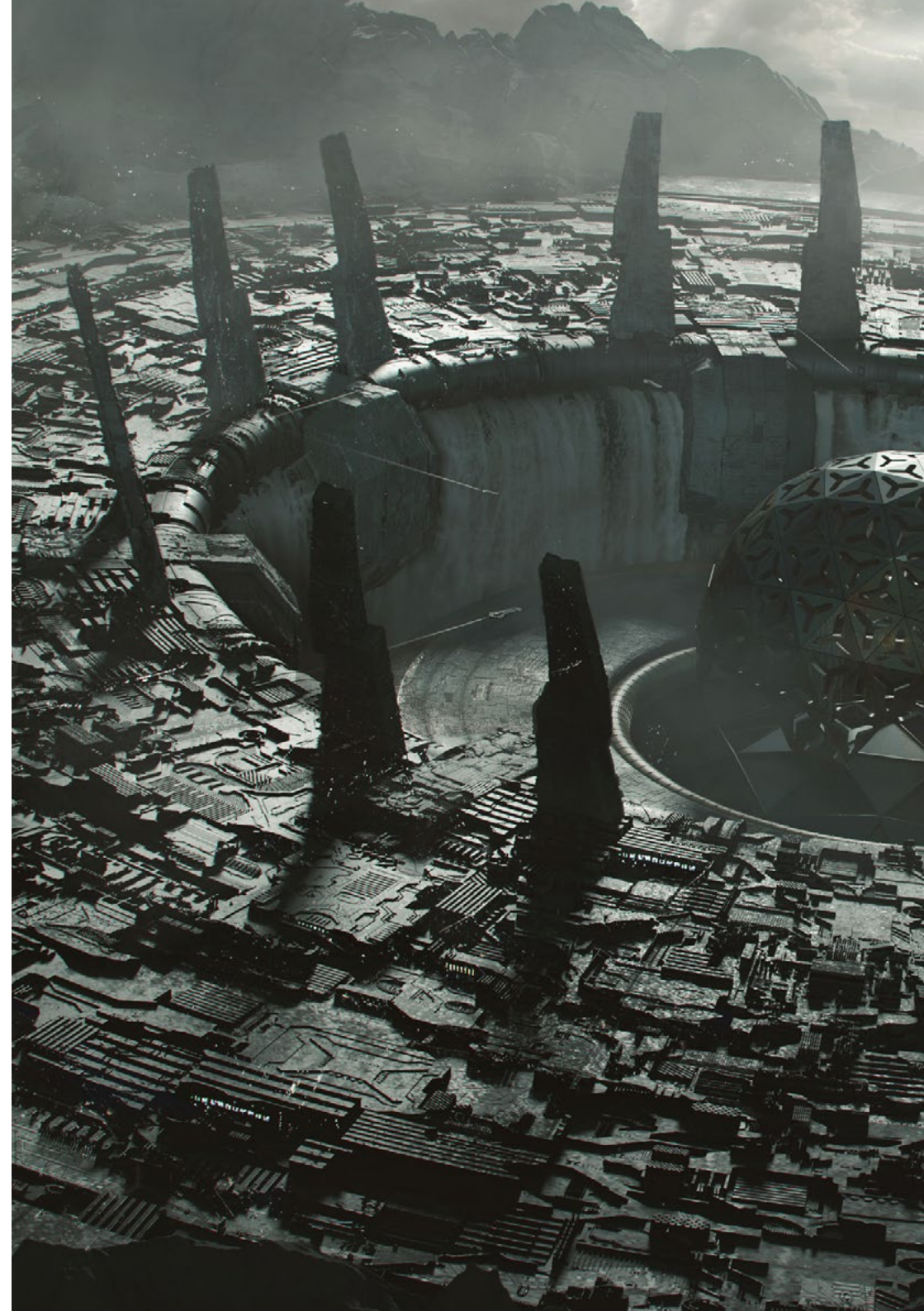
“

You will be able to successfully face the challenges of your profession thanks to this Postgraduate Certificate with which you will learn the most complex aspects of 3DS Max"



General Objectives

- ◆ Know in depth all the steps to create a 3D modeling of a professional's own
- ◆ Know and understand in detail how textures work and how they influence on the modeling
- ◆ Master several programs focused on modeling, texturing and real time used today in the professional world
- ◆ Apply the knowledge acquired in the resolution of problems of a modeling
- ◆ Expertly use the knowledge acquired to create your own projects and intelligently add them to your portfolio
- ◆ Develop the resources of each program to achieve the best effect for your modeling





Specific Objectives

- ◆ Learn in depth two ways of editing and use them according to the type of modeling or according to the objective
- ◆ Know all types of program editing to create any type of modeling proposed by the user
- ◆ Customize the program to use it in the fastest and most efficient way for each professional
- ◆ Know and use the most advanced tools of the program
- ◆ Delve into *Plugins* and *Scripts* to use them for the benefit of modeling



*Don't be afraid of 3D modeling
job challenges with 3DS Max"*

03

Course Management

This program is designed following the guidelines of a group of experts of the highest prestige. They are working professionals who have dedicated a large part of their careers to develop their texturing technique, continuing at the forefront of the industry and developing their professional practice in the best animation studios and projects of international stature. Thus, through the content they will present and the diverse didactic materials they have developed, the student will receive the most current and requested knowledge of this industry.



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*All our programs are managed by
true professionals in the field"*

Management



Ms. Vidal Peig, Teresa

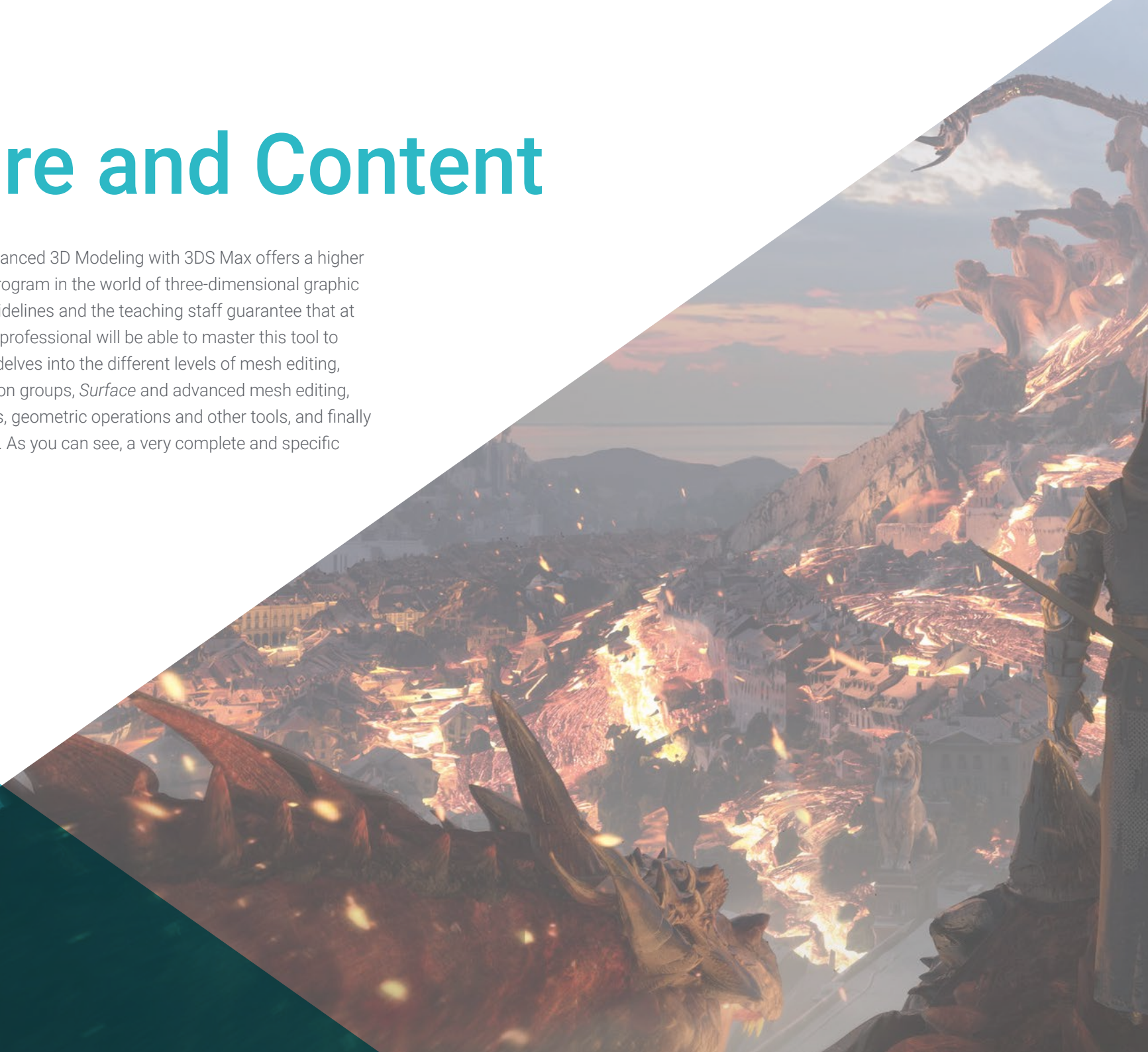
- ♦ Specialist in Arts and Technology (digital art, 2D, 3D, VR and AR)
- ♦ Designer and creator of 2D character sketches for mobile video games
- ♦ Designer at Sara Lee, Motos Bordy, Hebo and Full Gass
- ♦ Teacher and director of Professional Master's Degree in Video Game Programming
- ♦ Teacher at the University of Girona
- ♦ PhD in Architecture from the Polytechnic University of Catalonia
- ♦ Bachelor of Fine Arts from the University of Barcelona



04

Structure and Content

The Postgraduate Certificate in Advanced 3D Modeling with 3DS Max offers a higher level of depth in this cutting-edge program in the world of three-dimensional graphic design and editing. The course's guidelines and the teaching staff guarantee that at the end of this program, the design professional will be able to master this tool to perfection. In this way, the content delves into the different levels of mesh editing, polygonal editing, geometry, selection groups, *Surface* and advanced mesh editing, as well as the distribution of objects, geometric operations and other tools, and finally the introduction to *Plugins y Scripts*. As you can see, a very complete and specific Postgraduate Certificate.





“A journey designed for you to become
an expert in Advanced 3D Modeling
with 3DS Max”

Module 1. Advanced 3D Modeling with 3DS Max

- 1.1. Mesh Editing Polygonal Editing
 - 1.1.1. Polygonal Editing EditablePoly and EditPoly
 - 1.1.2. Panels, Selection and Flexible Selection
 - 1.1.3. TurboSmooth, MeshSmooth and HSDS Modifier
- 1.2. Mesh Editing Geometry
 - 1.2.1. Vertex, Edge and Edge Editing
 - 1.2.2. Polygon, Element and Geometry Editing
 - 1.2.3. Geometry Cutting Planes and Added Resolution
- 1.3. Mesh Editing Selection Groups
 - 1.3.1. Geometry Alignment and Visibility
 - 1.3.2. Selection Sub-Objects, Material IDs and Smoothing Groups
 - 1.3.3. Surface Subdivision and Vertex Painting
- 1.4. Mesh Editing Surface
 - 1.4.1. Geometry Displacement and Deformation Brush
 - 1.4.2. Flat Mode and EditableMesh
 - 1.4.3. Splines + Surface
- 1.5. Advanced Mesh Editing
 - 1.5.1. EditablePatch
 - 1.5.2. Model Sheet and Setup for Modeling
 - 1.5.3. Symmetry Tracing and Symmetry
- 1.6. User Customization
 - 1.6.1. Display Floater Tool and Panel Display
 - 1.6.2. Object Properties and Preferences
 - 1.6.3. UI Personalization Shortcuts, Menus and Colors
 - 1.6.4. Viewer Configuration
- 1.7. Object Distribution
 - 1.7.1. Orthographic View
 - 1.7.2. Spacing Tool and SnapShot
 - 1.7.3. Cloning and Alignment Tool
 - 1.7.4. Matrices. Array





- 1.8. Geometric Operations
 - 1.8.1. Polygonal and Parametric Combination
 - 1.8.2. Polygonal Combination and Shapes
 - 1.8.3. Polygonal and Boolean Combination
 - 1.8.4. Polygonal, Spline, Parametric and Boolean Combination
- 1.9. Other Tools
 - 1.9.1. Loops, Constraints and Edge Splitting
 - 1.9.2. Isoline and Collapse Modifiers
 - 1.9.3. Polygon Counter and Types of Optimization
- 1.10. Plugins and Scripts
 - 1.10.1. Plugins and Scripts. Grass - o - Matic
 - 1.10.2. Creation of Herbs and Fibers with Grass - o - Matic
 - 1.10.3. Plugin Greeble
 - 1.10.4. Script Voronoi. Fracture

“ *A syllabus designed to acquire knowledge in the most efficient way possible* ”

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.



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.



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.

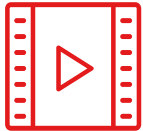
Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.

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.



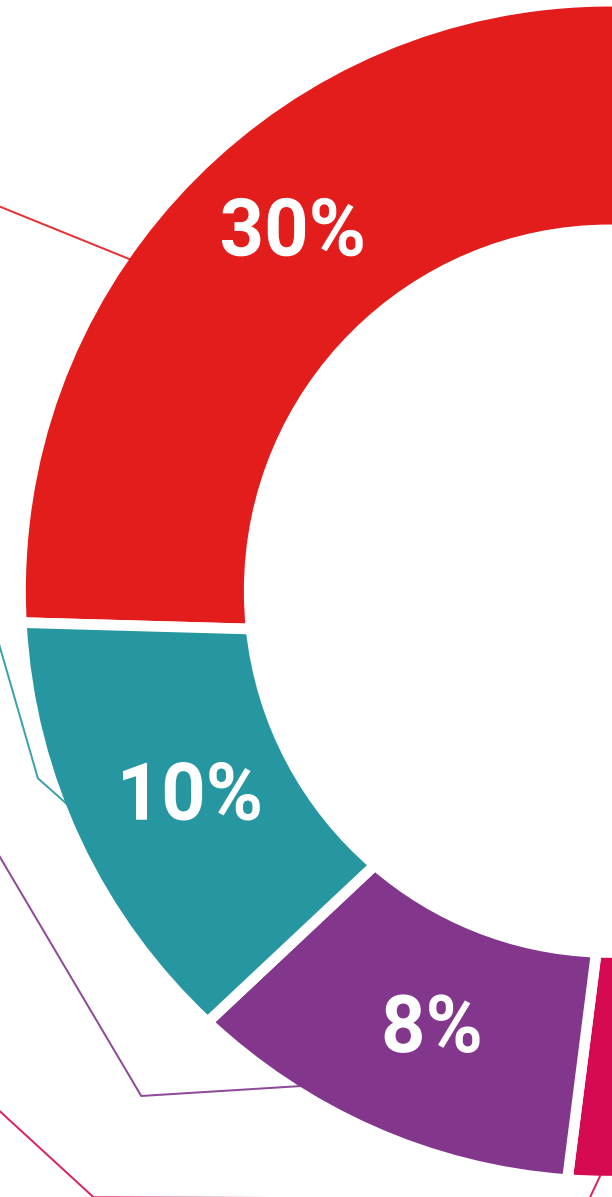
Practising Skills and Abilities

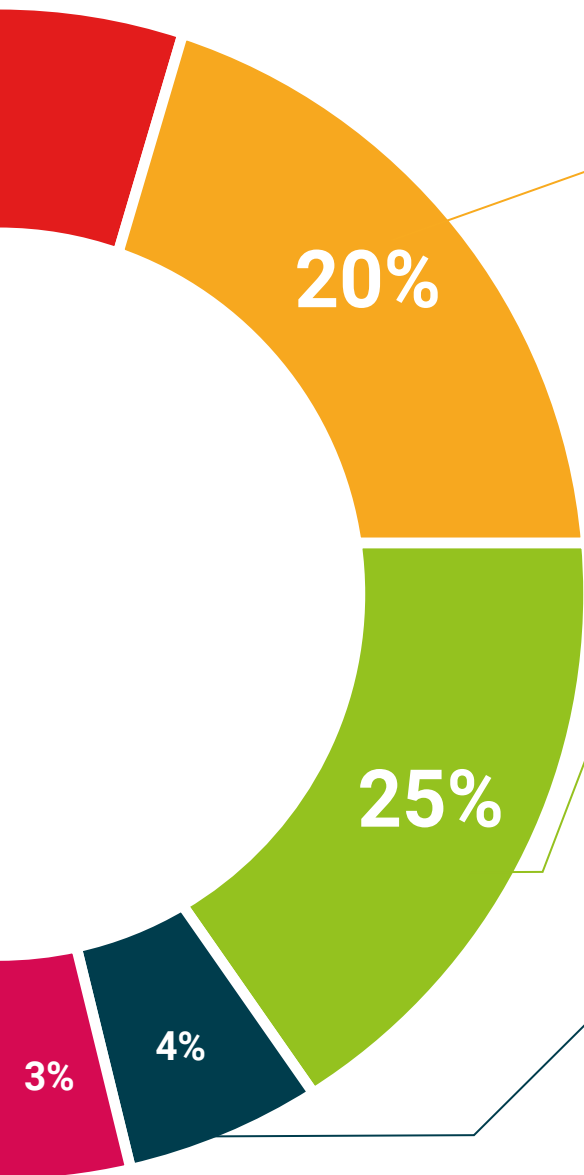
They will carry out activities to develop specific competencies and skills in each thematic area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



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 Advanced 3D Modeling with 3DS Max guarantees students, in addition to the most rigorous and up to date education, access to a Postgraduate Certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in Advanced 3D Modeling with 3DS Max** contains the most complete and up-to-date 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 diploma 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 Advanced 3D Modeling with 3DS Max**

Modality: **online**

Duration: **6 weeks**



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.



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