

Postgraduate Certificate

Advanced 3D Modeling with 3ds Max





Postgraduate Certificate Advanced 3D Modeling with 3ds Max

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

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

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

Certificate

p. 28

01 Introduction

Three-dimensional modeling is becoming more and more accessible and simple thanks to the fact that the software that allows its application is being developed at the same time as this activity is being developed. An example of this is the leading software 3ds Max, which has undergone major implementations in the last decade, getting designers who use it to develop models increasingly achieved and rushed. Its interface, configurations and more advanced utilities will be no secret thanks to this training, which also offers an overview of all the applications and uses that three-dimensional design can have in modern life. This qualification is offered in a completely online format and is directly accredited, so it is not necessary to do a final project to obtain it.





Discover the most advanced options and utilities of 3ds Max software thanks to this fully online training”

This Postgraduate Certificate in Advanced 3D Modeling with 3ds Max focuses on unveiling the most advanced settings and utilities of the software, as well as teaching in depth two ways of editing and using them according to the modeling objective or project. In this way, it is intended that the students will be able to apply themselves professionally in a more expert way in three-dimensional modeling.

The educational program also focuses on showing all types of program-editing to create any type of proposed modeling, as well as developing the criteria for choosing it. In the same way, the aim is to customize the program to use it in the fastest and most efficient way for each professional, to know and handle the most advanced tools of the program and to introduce the Plugins and Scripts to use them for the benefit of the modeling.

Like all the qualifications offered by TECH in online mode, this educational plan is condensed and available for consultation on the virtual platform, making it easier for students to combine their studies with other personal and professional projects. In addition, it is supported by a teaching staff made up of real experts in the area of three-dimensional modeling who are always ready to tutor and answer questions.

This **Postgraduate Certificate in Advanced 3D Modeling with 3ds Max** contains the most complete and up-to-date educational program on the market. The most important features include:

- ◆ The development of case studies presented by experts in Advanced 3D Modeling with 3ds Max
- ◆ The graphic, schematic, and eminently 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



Learn the most complex configurations of 3ds Max in the easiest and simplest way through this Postgraduate Certificate”

“

Like all the programs offered by TECH, this qualification is supported by a teaching staff made up of real experts in the sector”

Delve into more complex modeling and design through this Postgraduate Certificate in Advanced 3D Modeling with 3ds Max.

Get the expertise in Advanced 3D Modeling with 3ds Max in the easiest and simplest way with this Postgraduate Certificate.

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

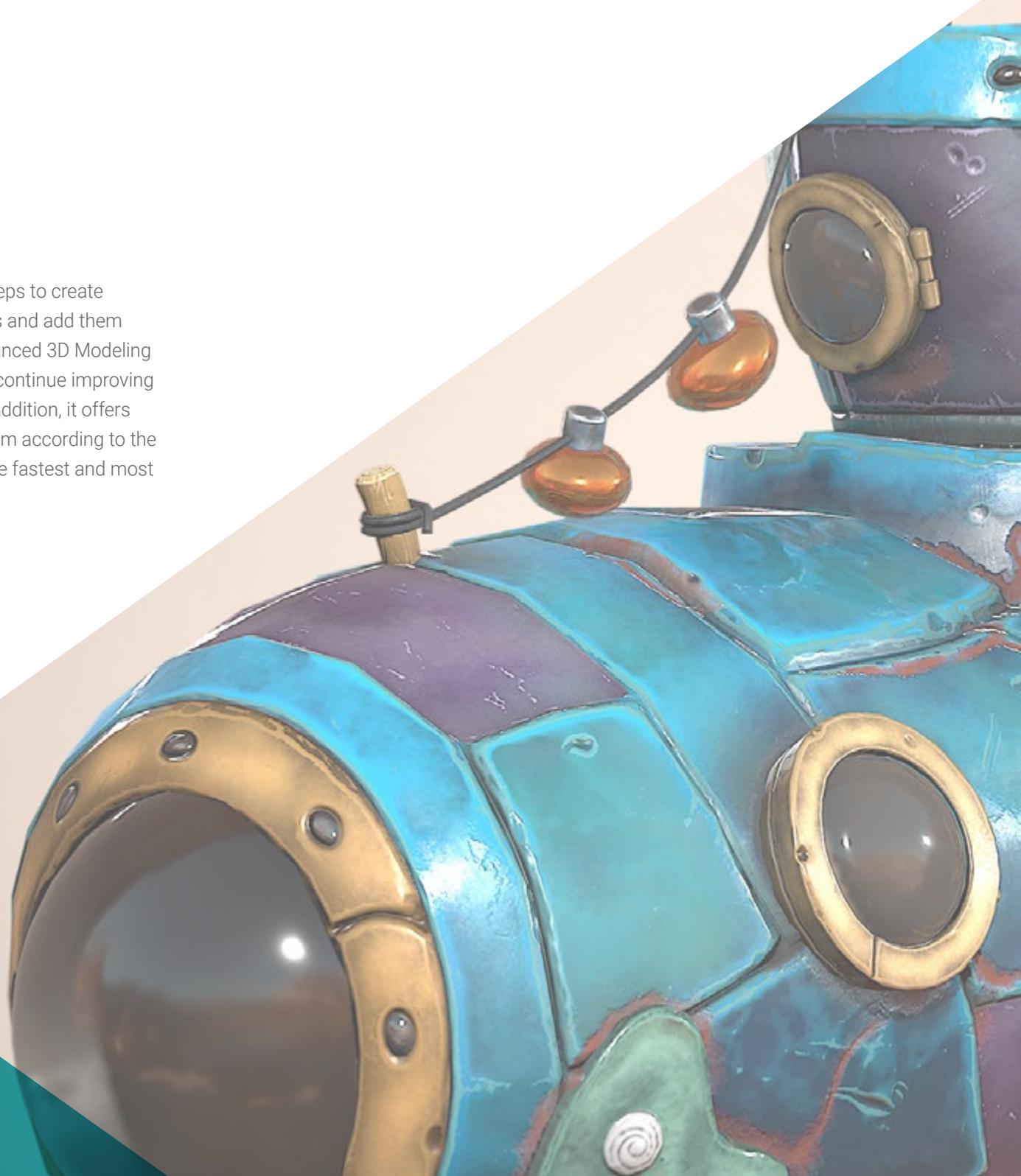
The multimedia content, developed with the latest educational technology, will provide professionals with situated and contextual learning, i.e., a simulated environment that will provide immersive training, designed for training oneself in real situations.

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.



02 Objectives

Aimed at those professionals who wish to know in depth all the steps to create professional 3D modeling and to expertly create their own projects and add them intelligently to their portfolio. This 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 with this leading tool in the industry. In addition, it offers knowledge of two ways of editing so that the designer can use them according to the project required, as well as customizing the program to use it in the fastest and most efficient way according to each professional's needs.





“

Discover the most complete dimension of this software and get to apply yourself professionally as a professional 3D modeler in 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
- ◆ Get introduced to Plugins and Scripts to use them for the benefit of modeling

“

Learn how to customize the program to use it in the fastest and most efficient way for each professional”

03

Course Management

This Postgraduate Certificate in Advanced 3D Modeling with 3ds Max has been designed by a faculty and teaching staff made up of true experts in 3D modeling, who have dedicated their professional lives to researching and developing the best techniques to achieve the best results. In addition, they have developed part of their experience in the educational field. TECH aims to guarantee the necessary theoretical and practical learning, but also the professional criteria so that students can dedicate themselves professionally to what they most desire. With practical cases and real experiences, students will be able to approach the most realistic dimension of their field.





“

TECH's programs have been designed by true industry professionals, who also have extensive teaching experience”

Management



Ms. Sanches Lalaguna, Ana

- 3D Designer at Lalaguna Studio
- 3D Generalist at NeuroDigital Technologies
- Freelance video game figure modeler
- 3D Artist and Narrative Responsible in the videogame "A Rising Bond" (InBreak Studios)
- Master's Degree in Videogame Art and Design (U-tad)
- Diploma in 2D and 3D Animation Filmmaking (ESDIP)
- Winner of the Best Narrative award and nominated for Best Game and Best Art at the PlayStation Awards



04

Structure and Content

This educational plan in Advanced 3D Modeling with 3ds Max offers a greater degree of depth in this leading program in the world of editing and three-dimensional graphic design. The content is divided into 10 subsections, perfectly structured so that the designer will be able to master this tool to perfection. The syllabus delves into the different degrees of mesh editing, at the level of polygonal editing, geometry, selection groups, surface and advanced mesh editing, as well as object distribution, geometric operations and other tools and, finally, an introduction to Plugins and Scripts.



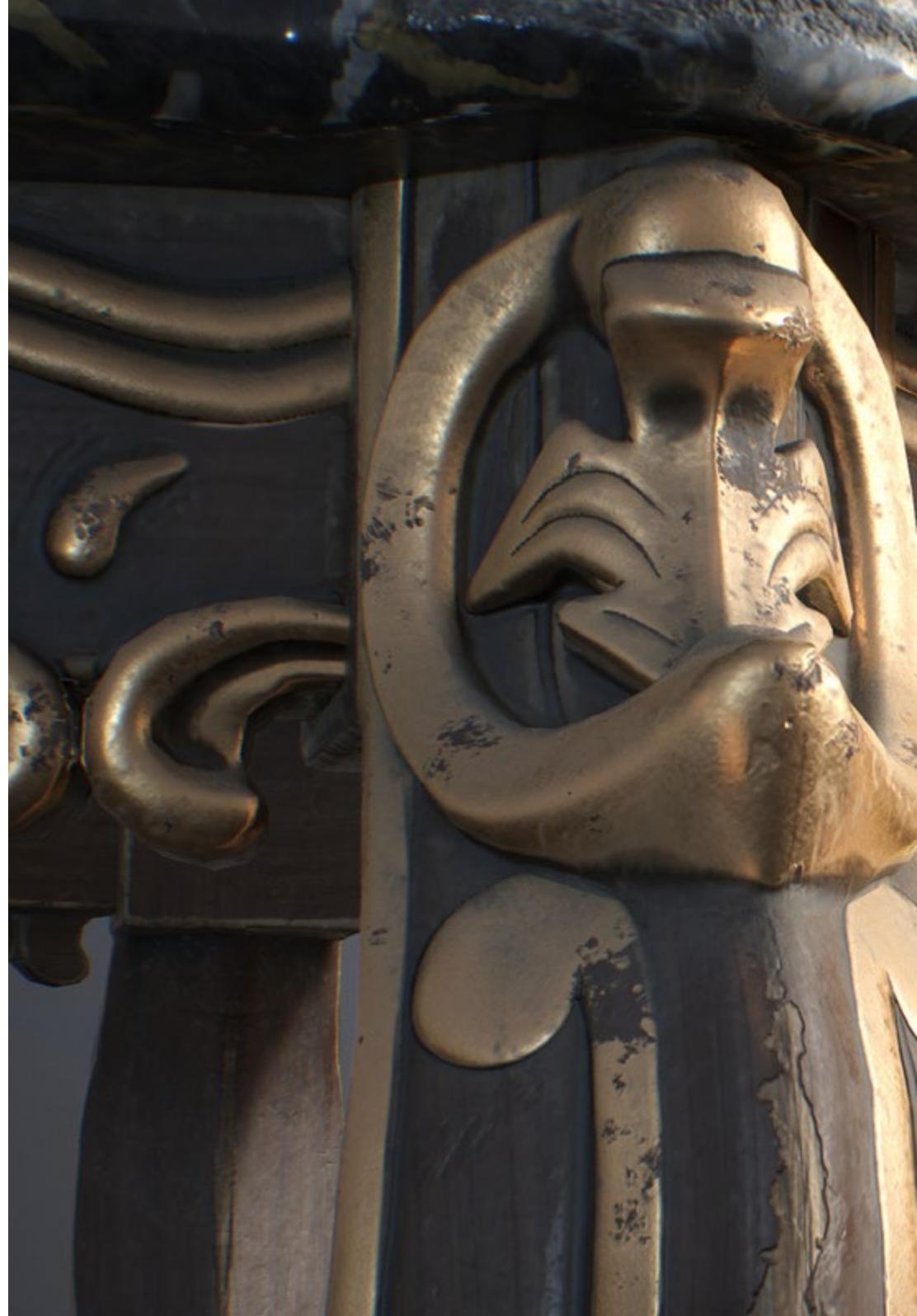


“

A comprehensive curriculum that is intended to give the designer the best skills with 3ds Max”

Module 1. Advanced 3D Modeling with 3ds Max

- 1.1. Mesh Editing Polygonal Editing
 - 1.1.1. Polygonal Editing Editable Poly and Edit Poly
 - 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 Editable Mesh
 - 1.4.3. Splines + Surface
- 1.5. Advanced Mesh Editing
 - 1.5.1. Editable Patch
 - 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 Customization: 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 or Matic
 - 1.10.2. Creation of Herbs and Fibers with Grass or Matic
 - 1.10.3. Plugin Greeble
 - 1.10.4. Script Fracture Voronoi

“

The content is divided into 10 sub-sections perfectly structured so that the designer is able to master this tool to perfection”

05 Methodology

This training program offers 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”

At TECH we use the Case Method

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

“

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



We are the first online university to combine Harvard Business School case studies with a 100% online learning system based on repetition.



A learning method that is different and innovative.

This intensive Information Technology program at TECH Global University prepares you to face all the challenges in this field, both nationally and internationally. We are committed to promoting your personal and professional growth, the best way to strive for success, that is why at TECH Global University you will use Harvard case studies, with which we have a strategic agreement that allows us, to offer you material from the best university in the world.

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

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

The case method has been the most widely used learning system among the world's leading Information Technology schools for as long as they have existed. 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 that you are presented with in the case method, an action-oriented learning method. Throughout the course, students 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

Our university is the first in the world to combine Harvard University case studies with a 100%-online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance Harvard case studies 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 university 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.

This methodology has 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, and financial markets and 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.



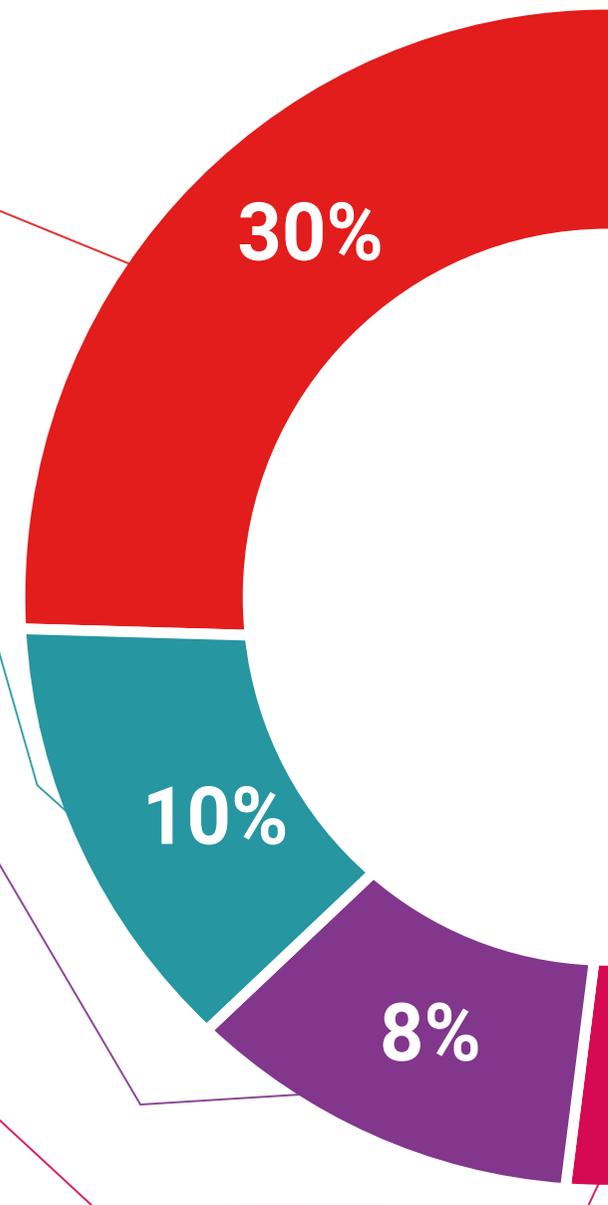
Practising Skills and Abilities

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 we live in.



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

They will complete a selection of the best case studies in the field used at Harvard. Cases that are presented, analyzed, and supervised by the best senior management 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 multimedia content presentation training Exclusive system 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 your 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 Global University.



“

*Successfully complete this training program
and receive your university certificate
without travel or laborious paperwork”*

This program will allow you to obtain your **Postgraduate Certificate in Advanced 3D Modeling with 3ds 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 Advanced 3D Modeling with 3ds Max**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



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



Postgraduate Certificate Advanced 3D Modeling with 3ds Max

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

Postgraduate Certificate

Advanced 3D Modeling with 3ds Max

