

Postgraduate Certificate

3D Modeling with 3ds Max



Postgraduate Certificate 3D Modeling with 3ds Max

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

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

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Certificate

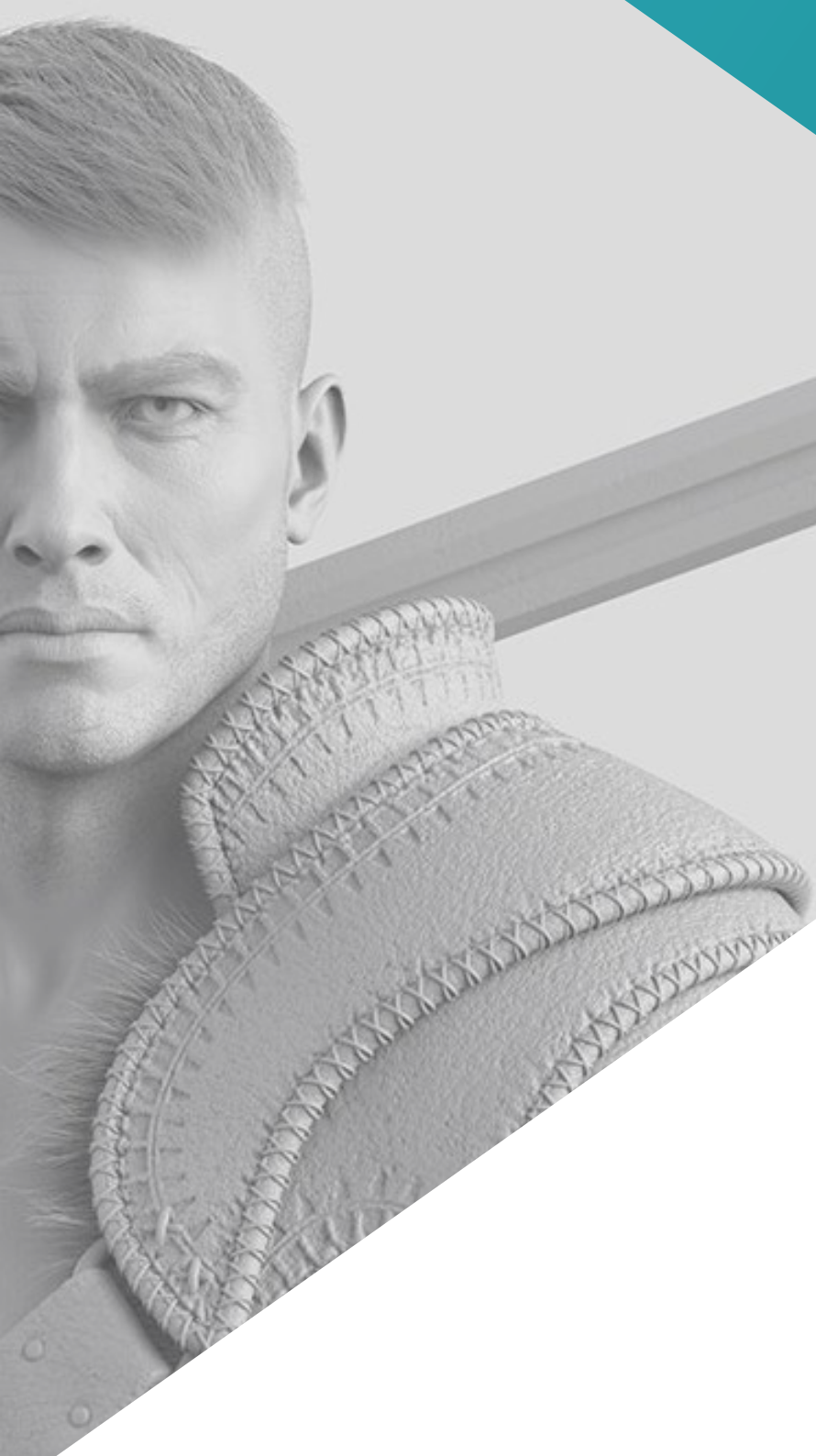
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01

Introduction

The 3ds Max software, developed to recreate the most complex 3D models, is one of the fundamental tools in the design sector. Specifically, this program is applied in the field of video game design, which has grown tremendously in recent decades, refining its graphic creativity and striving to captivate the player's eye with increasingly realistic representations. Thus, this fully online curriculum, guided by renowned professionals in the field, is designed to introduce users to 3D modeling with this important design software, 3ds Max. As such, this fully online curriculum, guided by esteemed industry professionals, is designed to introduce users to 3D modeling with this important 3D design software, 3ds Max.





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*Be part of the 3D modeling revolution
and redirect your career as an image
and graphics designer for video games”*

This Postgraduate Certificate is aimed at providing a deep understanding of the functionality of the 3ds Max software, including an in-depth exploration of the program's interface and controls. Additionally, the course covers how to transform geometry to achieve the desired shape quickly and efficiently.

Throughout this educational journey, students will learn all the effects of modifiers and how to combine them for greater impact. There is also a specific section dedicated to understanding Boolean operations and how to use them to benefit the modeling process.

Finally, a particularly useful skill covered in this course is how to use 2D elements and combine them with 3D objects to create shapes more effectively. This is a comprehensive Postgraduate Certificate designed to ensure students fully understand this leading program in 3D design.

This training, developed by TECH Global University, is entirely designed to allow students to balance their studies with daily life. Its online format enables users to progress at their own speed during the 6-week duration of the course, with access to content from anywhere and at any time.

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

- ♦ The development of practical cases 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



Without disrupting your personal or professional routine, take this Postgraduate Certificate and learn the keys to 3D design in 3D Studio Max"

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This Postgraduate Certificate has been designed to integrate learning with your professional and personal routine, allowing you to continue updating your skills without abandoning other projects”

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.

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 course. For this purpose, students will be assisted by an innovative interactive video system created by renowned experts.

Embark on a progressive learning journey with our teaching methodology developed by TECH, including re-learning and learning by doing.

Specialize your resume and give your career as a 3D Modeling designer with 3ds Max a new direction.



02 Objectives

By completing this curriculum, users will gain a deep understanding of the key features and configurations of the leading 3D design program, 3ds Max, and apply their knowledge to the development of creative designs and graphics for video games. With well-structured objectives, you will acquire the necessary skills and knowledge to confidently navigate its functionalities, interface, and controls. The program's management and teaching team has designed the content to ensure that professionals in the field acquire all the required skills.





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Acquire the fundamental concepts of 3D modeling with 3ds Max through a well-defined curriculum”



General Objectives

- ♦ Gain a deep understanding of all the steps to create a 3D model that reflects a professional standard
- ♦ Gain a detailed understanding of how textures work and how they influence the modeling process
- ♦ Master several programs focused on modeling, texturing and real time used today in the professional world
- ♦ Apply the knowledge acquired in solving modeling problems
- ♦ 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

- ◆ Gain an in-depth understanding of the functionality of the 3ds Max software
- ◆ Gain an in-depth understanding of the program's interface and controls
- ◆ Transform the geometry to get the shape we want in the fastest and most efficient way
- ◆ Learn all the effects of the modifiers and learn how to combine them for greater effect
- ◆ Understand Boolean operations and know how to use them to our advantage
- ◆ Use 2D elements and combine them with your 3D models to create shapes more effectively

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With a clear structure and guidance from the best professionals in the field, you will master the 3ds Max software”

03

Course Management

The management team of this course, along with the faculty, has collaboratively designed a comprehensive curriculum to ensure that users are updated in both the theoretical and practical dimensions of the field, supplemented by their professional experience. These internationally renowned experts are highly qualified to teach the content of this program. Through the content they present and the various educational materials they have developed, students will gain the most current and in-demand knowledge in the industry.





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Take on new professional challenges and projects, and acquire the best knowledge in the leading software, 3ds Max”

Management



Dr. 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
- Designers at Sara Lee, Motos Bordy, Hebo and Full Gass
- Teacher and director of Master's Degree in Video Game Programming
- Professor at the University of Girona
- PhD in Architecture from the Polytechnic University of Catalonia
- Degree in Fine Arts from the University of Barcelona



04

Structure and Content

The content of this Postgraduate Certificate is divided into smaller sections, ensuring that knowledge is acquired progressively, from the most basic and essential concepts to the more advanced configurations and tools. In just 6 weeks, users will become professionals specializing in 3D modeling with 3ds Max. The Postgraduate Certificate in 3D Modeling with 3ds Max is designed to solidify the designer's understanding of this software, laying a strong foundation to continue exploring it and to face 3D modeling challenges with this cutting-edge tool.



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Acquiring the necessary knowledge to become a 3D modeler with 3ds Max has never been easier than with this fully online Postgraduate Certificate, which will lay the groundwork to master this program perfectly”

Module 1. 3D Modeling with 3ds Max

- 1.1. 3D Modeling with 3ds Max
 - 1.1.1. Orbit, Viewers and Views
 - 1.1.2. Geometry Display Modes
 - 1.1.3. Steering Wheels
- 1.2. Transformations and Geometry
 - 1.2.1. Interactive and Parametric Transformations
 - 1.2.2. Standard and Extended Primitives
 - 1.2.3. Scaling Transformation
 - 1.2.4. Select and Place / Select and Rotate
 - 1.2.5. Align and Symmetry
- 1.3. Main Operations
 - 1.3.1. Duplicate, Interactive Selection and Selection Groups and Elements
 - 1.3.2. Layers, Grid, Snap and Pivot Point
 - 1.3.3. Links, Coordinate Systems, Actions, Views and Isolate Geometry
- 1.4. Parametric Modifiers
 - 1.4.1. Bend, Taper, Skew and Twist
 - 1.4.2. Stretch and Squeeze
 - 1.4.3. Ripple, Wave and Noise
 - 1.4.4. Spherify, Lattice and Mirror
 - 1.4.5. Push and Relax
 - 1.4.6. Slice, Shell and CapHoles
- 1.5. Free Deformation Modifiers
 - 1.5.1. FFD Modifiers
 - 1.5.2. FFD Cyl
 - 1.5.3. FFD Box





- 1.6. Composition Objects
 - 1.6.1. Boolean Operations. Boolean and ProBoolean
 - 1.6.2. Objects Dispersion Scatter
 - 1.6.3. Morphism. Morph
- 1.7. 2D Shapes. Splines
 - 1.7.1. Splines and its Options
 - 1.7.2. The Line and Vertex Types
 - 1.7.3. Vertex, Segment and Splines Subobjects
- 1.8. 2D Shapes. Advanced Splines
 - 1.8.1. Editable Splines and Use of Grid and Snap to Create 2D Shapes
 - 1.8.2. Parametric Modifiers, FFD and Booleans with Splines
 - 1.8.3. Extended Splines and Section
- 1.9. Modifiers of Splines
 - 1.9.1. Extrude
 - 1.9.2. Bevel
 - 1.9.3. Sweep
 - 1.9.4. Lathe
- 1.10. Composition Objects. Splines
 - 1.10.1. Loft
 - 1.10.2. Terrain
 - 1.10.3. Shape Merge



In just 6 weeks, the user will become a professional specialized in 3D modeling with 3ds Max”

05

Study Methodology

TECH Euromed University is the first in the world to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This innovative pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and moving away from more conventional methodologies.



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*TECH Euromed University will
prepare you to face new challenges
in uncertain environments and
achieve success in your career”*

The student: the priority of all TECH Euromed University programs

In TECH Euromed University's study methodology, the student is the main protagonist. The teaching tools for each program have been carefully selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions on the labor market.

With TECH Euromed University's asynchronous educational model, students have the flexibility to choose when and how much time they dedicate to studying, as well as how they establish their routines, and all this from the comfort of their preferred electronic device. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities can be completed at a time that is convenient for the student, allowing them to decide when and where they want to study.

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At TECH Euromed University you will NOT have live classes (which you might not be able to attend)”



The most comprehensive study plans at the international

TECH Euromed University is distinguished by offering the most complete academic itineraries on the higher education landscape. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs enable students to keep up with market changes and acquire the skills most valued by employers. As a result, those who complete their studies at TECH Euromed University receive a well-rounded education that provides them with a significant competitive edge to advance their careers.

Moreover, they can access their studies from any device-PC, tablet, or smartphone.

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TECH Euromed University's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want”

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH Euromed University. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH Euromed University, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH Euromed University offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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



A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH Euromed University focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH Euromed University students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of 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.

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH Euromed University graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH Euromed University is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.



As such, the best educational materials, thoroughly prepared, will be available in this program:



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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

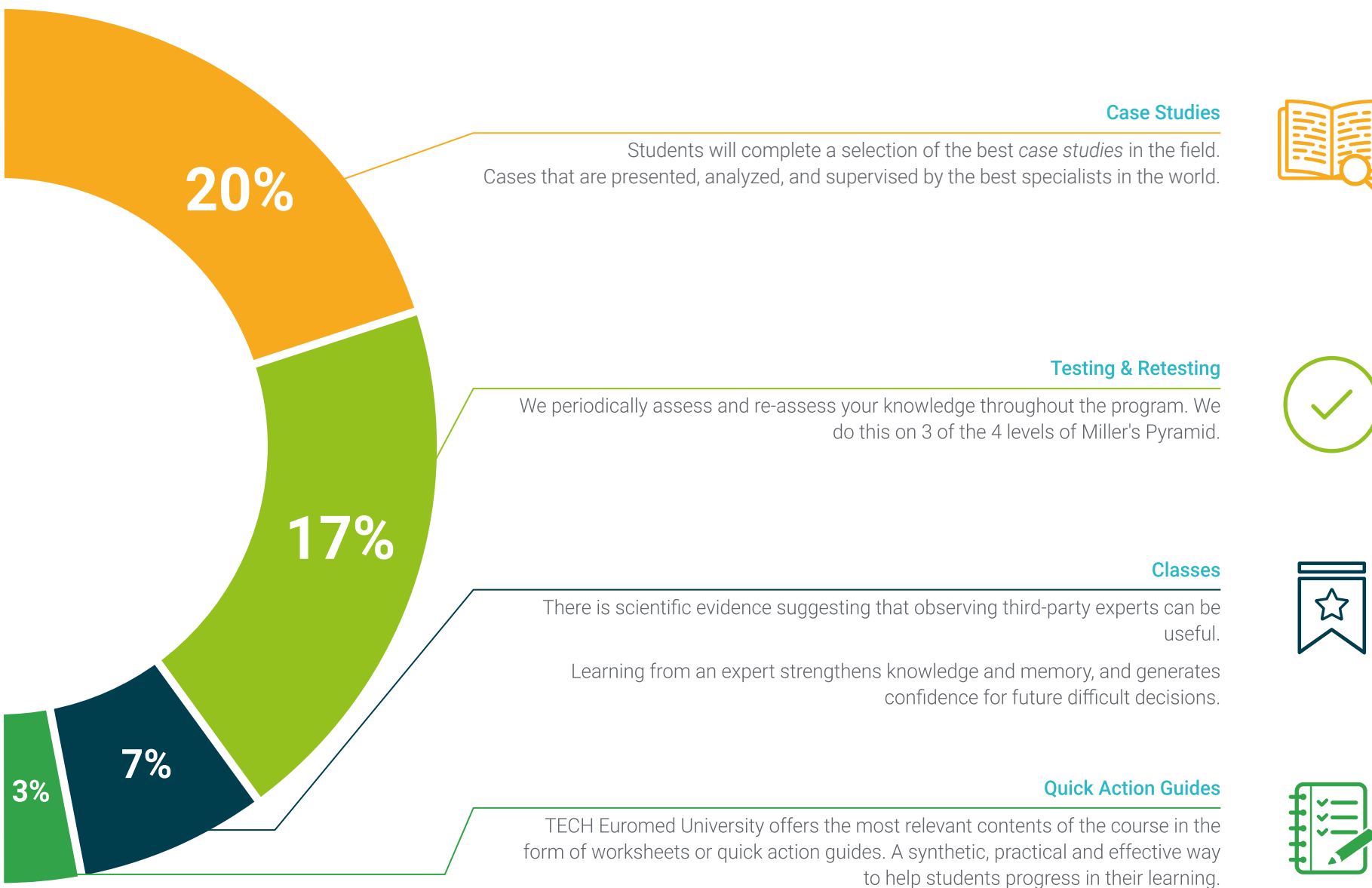
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





06 Certificate

The Postgraduate Certificate in 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.



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

This private qualification will allow you to obtain a **Postgraduate Certificate in 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.

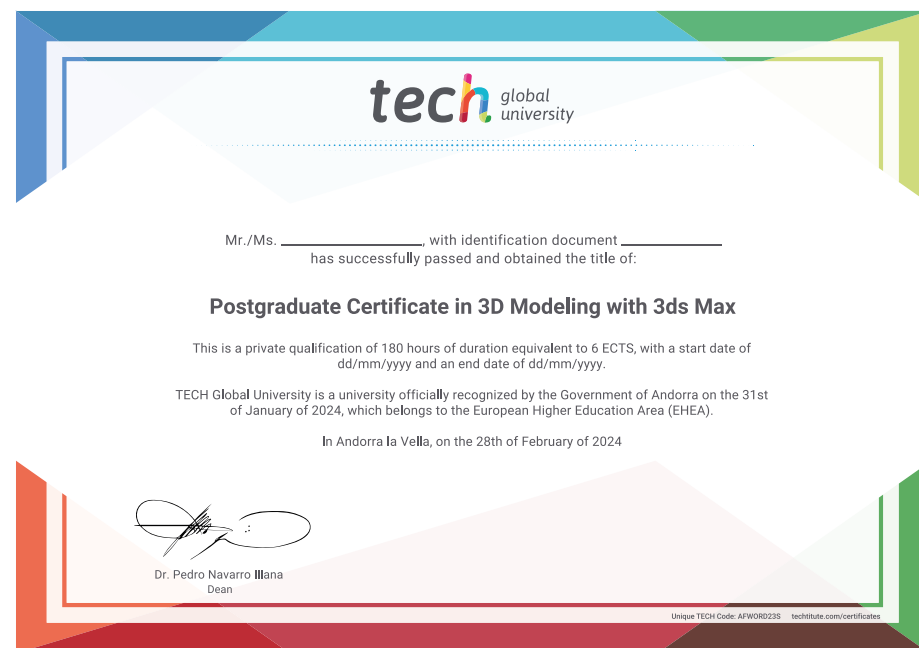
This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in 3D Modeling with 3ds Max**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





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