

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
- » Accreditation: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

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

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01

Introduction

The specialization in three-dimensional modeling applied to video game development with cutting-edge programs such as Advanced 3DS Max is becoming increasingly necessary. This training is focused on delving into the most advanced options of this software and centers on more specific concepts, delivered by renowned professionals in the field and with the best educational resources. Thanks to this comprehensive curriculum, the opportunity to progress professionally is created, resulting in a profile specialized in expert three-dimensional modeling for the design of objects and shapes for screen-based games.



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This comprehensive curriculum opens the door to professional growth and also specializes your profile as a designer”

The Postgraduate Certificate in Advanced 3D Modeling with 3DS Max is designed for those who wish to explore a more complex and advanced dimension of this comprehensive tool, while ensuring better adaptation to the current challenges in the 3D design industry. This program is specifically designed to thoroughly develop two forms of editing offered by the tool, helping users to determine which is appropriate for use depending on the purpose or type of modeling.

Among its objectives, the course also focuses on teaching all types of program editing to ensure the fastest and most efficient use, as well as mastering the most advanced tools available within the software. Finally, the program introduces plugins and scripts, showing how to use them to benefit the modeling work the designer creates.

Additionally, this curriculum ensures full integration of 3DS Max, providing a competitive advantage by equipping designers with superior skills and capabilities. This more advanced curriculum builds on basic concepts and aims to meet the needs of users who wish to expand their knowledge in 3D design using 3DS Max.

The program is entirely online, designed to facilitate the balance between personal and professional life, with the continuous update of learning and knowledge. Therefore, all content is available on the virtual platform, and students can access educational resources and multimedia material as needed.

This **Postgraduate Certificate in Advanced 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



Continue updating your knowledge and specializing your professional profile in 3D modeling with 3DS Max through this Postgraduate Certificate"

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Deepen your expertise in the 3DS Max software and enhance your 3D design skills with this cutting-edge tool of the industry”

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.

With an internet connection and an electronic device, you can connect anytime to the virtual platform to continue progressing in the content.

Balance your personal and professional life with the continuous update of knowledge and skills through this entirely online training.



02 Objectives

This training, designed for individuals seeking to further improve their 3D modeling skills with 3DS Max, is structured around various objectives, allowing students to deeply understand all the steps to create expert-level 3D models and master the most complex editing tools of this software. During this 6-week Postgraduate Certificate, users will acquire the necessary skills to apply what they have learned in this educational program to their real professional career.





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Take on new challenges in your profession with this comprehensive educational program, where you will acquire the skills to professionally use 3DS Max”



General Objectives

- ◆ Gain a deep understanding of all the steps to create a 3D model that reflects a professional standard
- ◆ 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 to solve modeling-related 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

- ◆ Learn in-depth two methods of editing and use them according to the type of modeling or the specific objective
- ◆ Master all types of editing in the software to create any type of model 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
- ◆ Introduce Plugins and Scripts to benefit modeling

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*Learn like a true professional about
3D modeling with 3DS Max”*

03

Course Management

This program is designed following the guidelines of a group of highly esteemed experts, active professionals who have dedicated much of their careers to developing their skills in 3DS Max modeling. They ensure that the student's experience is supported throughout the entire learning process, offering tutorials and guidance along the way. Likewise, they will focus on developing the most practical and professional skills—those that provide the designer with the critical judgment needed to apply in their professional practice.





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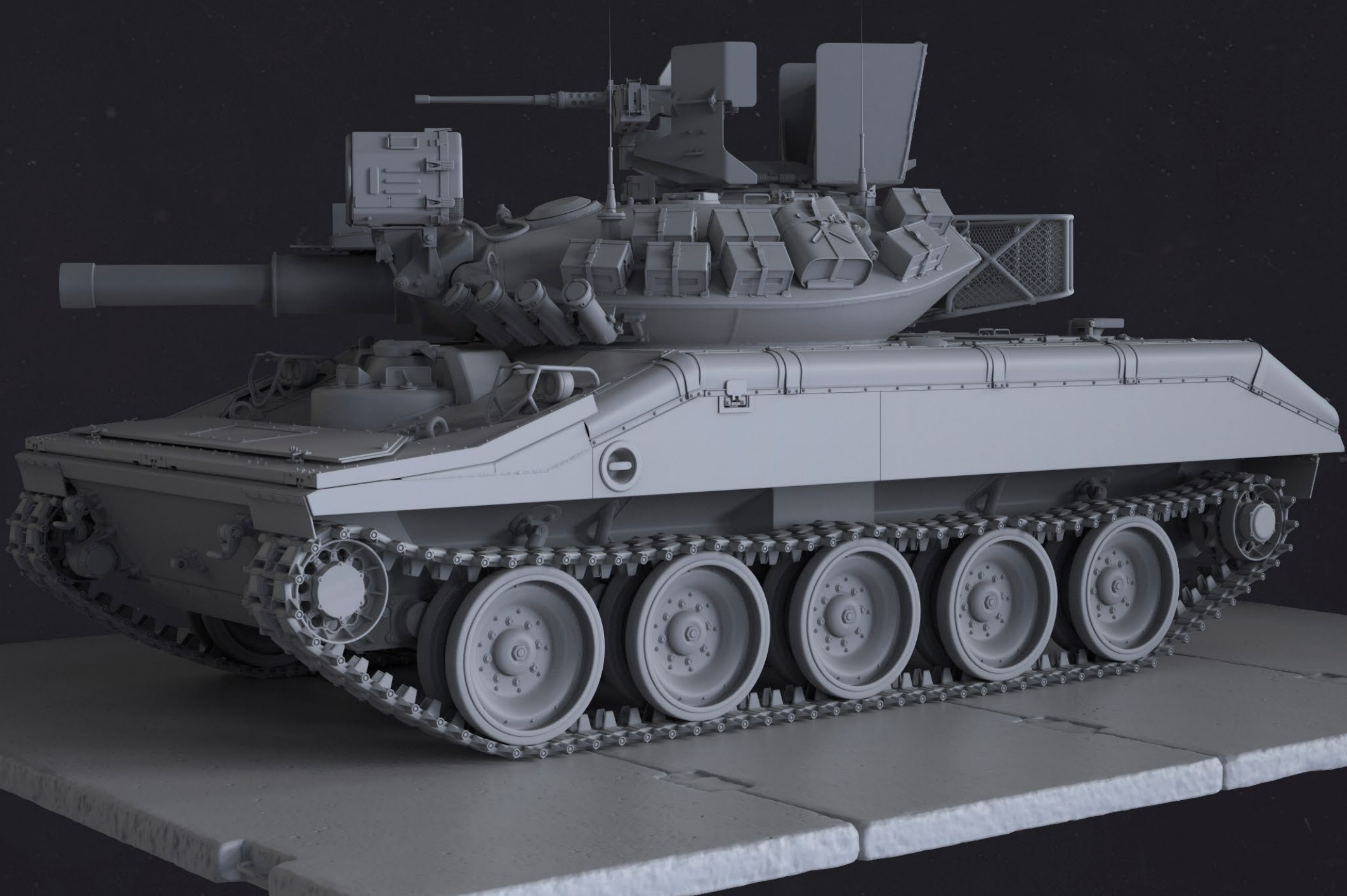
Acquire practical knowledge and professional judgment to apply to your professional projects”

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

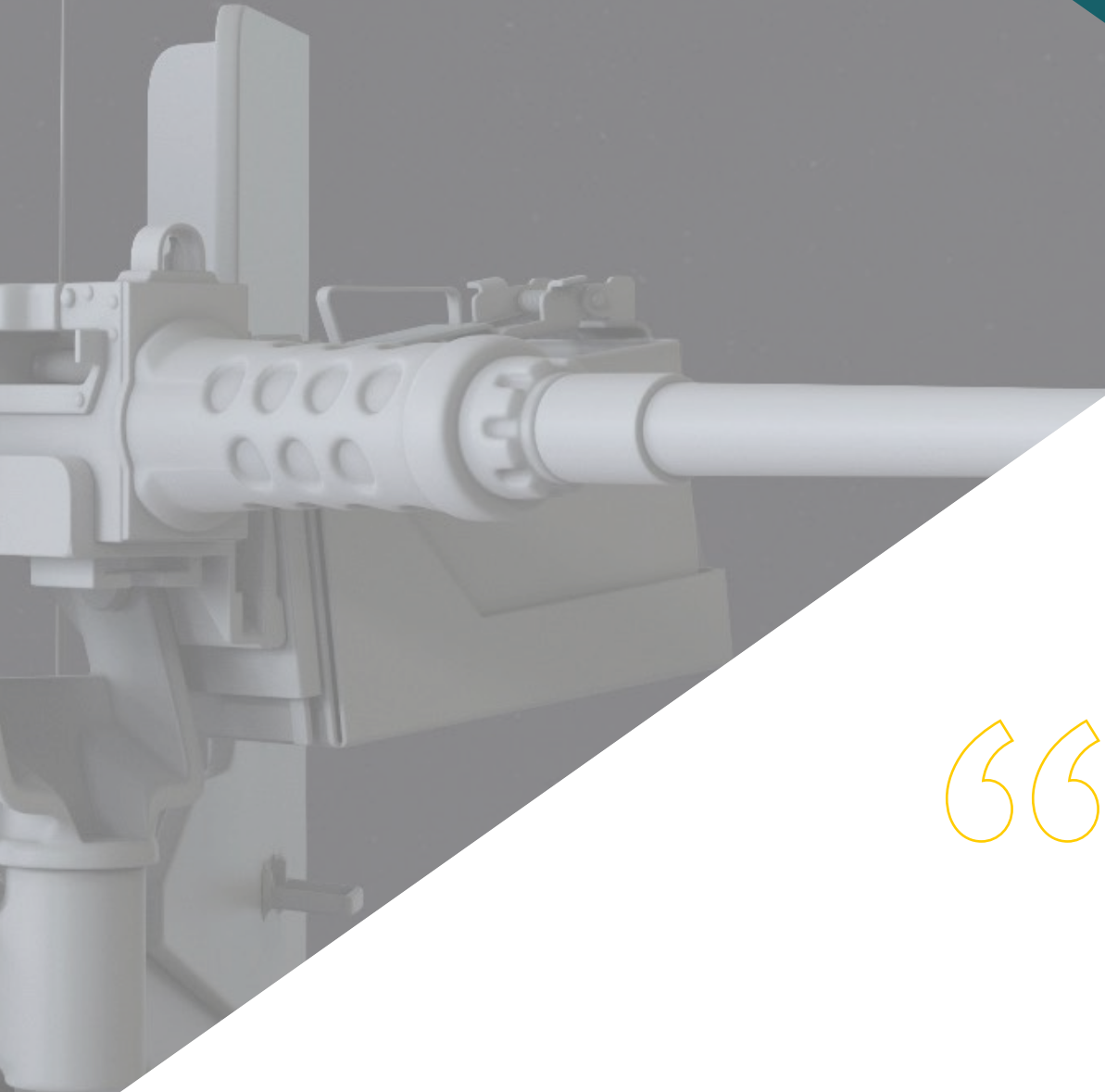


04

Structure and Content

This Postgraduate Certificate in 3D Modeling with 3DS Max, organized into 10 sections that delve into this leading software in the world of 3D editing and graphic design, is designed by the management team and faculty who ensure that, upon completion, the designer will have mastered this tool to perfection. The content explores various levels of mesh editing, including polygonal editing, geometry, selection groups, surface editing, and advanced mesh editing, as well as object distribution, geometric operations, and other tools, culminating in an introduction to Plugins and Scripts.





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As can be seen, this is a very comprehensive and specialized Postgraduate Certificate for professionals in a growing sector”

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 Subobjects, 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

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.

“*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.

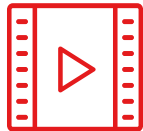
The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

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

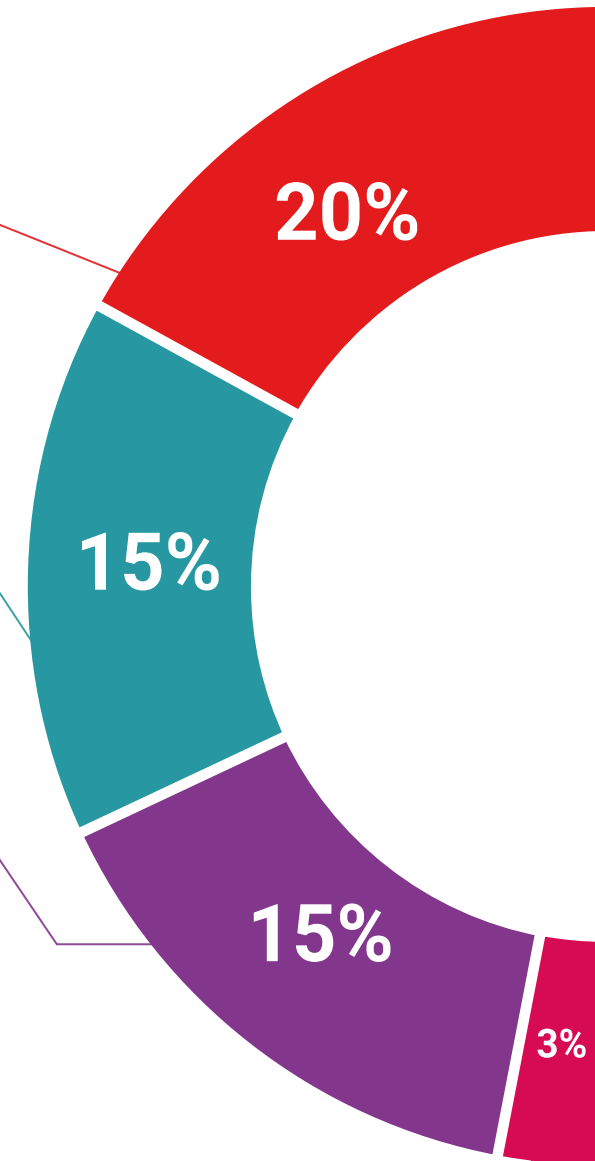
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

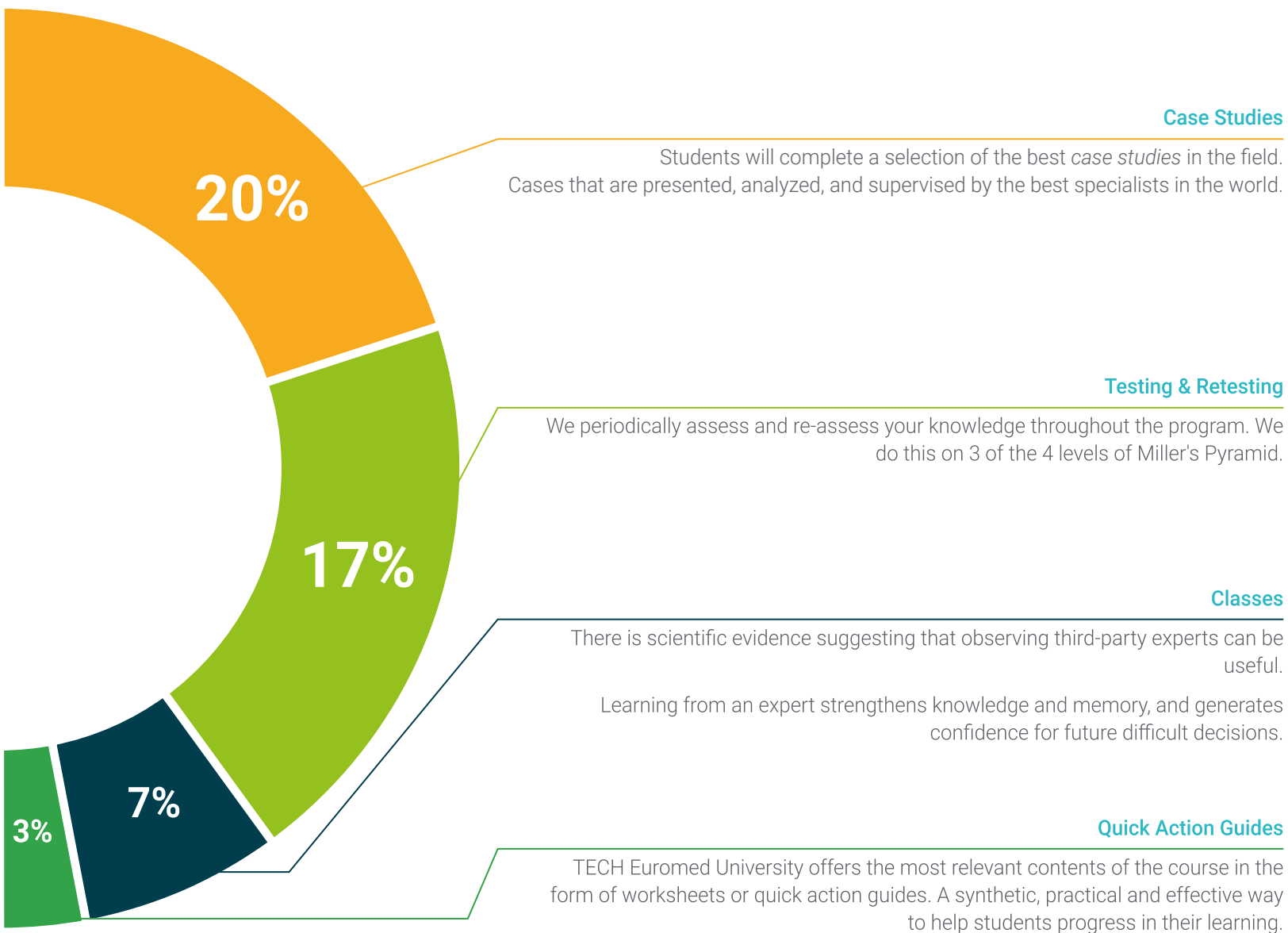
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 Advanced 3D Modeling with 3DS Max guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the 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 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** 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 Advanced 3D Modeling with 3DS Max**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





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