

Postgraduate Certificate Exports to Unreal



Postgraduate Certificate Exports to Unreal

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

Website: www.techtitute.com/us/videogames/postgraduate-certificate/exports-unreal

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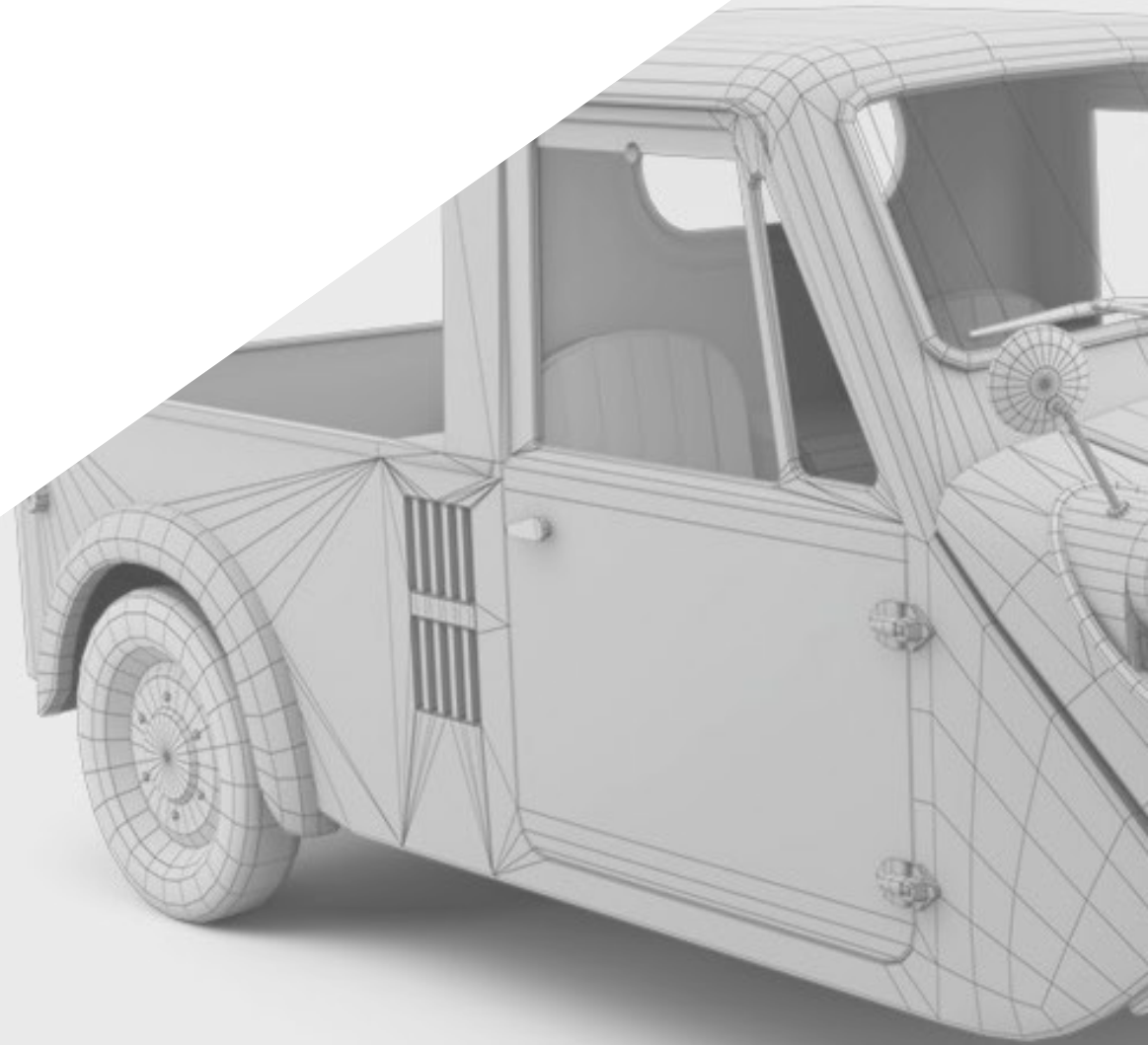
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01

Introduction

The Unreal Engine game engine is probably one of the most widely used and highly regarded in the industry due to its great potential. In fact, the renowned productions of Final Fantasy VII Remake and Senua's Saga: Hellblade II were created using Unreal Engine 4. Independent developers have also embraced this engine, attracted by the quality and detail it brings to the finished product. This online training aims to develop skills in rendering hyper-realistic animations and focuses on specific concepts to perfect techniques. A fully online educational program that offers maximum convenience in the learning process.





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Learn to use Unreal Engine in the most convenient and straightforward way with this online educational program”

This Postgraduate Certificate in Exports to Unreal aims to strengthen and enrich the knowledge of video game design professionals in rendering and finishing productions using this platform. With these objectives, students will learn to handle the Unreal Engine real-time engine for working with 3D models and their textures, as well as understand the properties of Unreal's materials.

Additionally, this training focuses on teaching the work and understanding of Unreal's material nodes, adding effects to textures to create unique materials. It also emphasizes proper scene lighting, achieving realistic effects based on the desired environment, and configuring Lithmaps to optimize engine performance.

Lastly, students will be able to perform basic post-processing to create renders with good visual effects. During six weeks of study, students will learn every aspect involved in creating high-quality renders.

TECH Global University follows a teaching methodology based on online training and re-learning. This approach makes high-quality content available on the virtual platform to encourage autonomous learning. Furthermore, the program is backed by a high-level faculty to ensure optimal results and true expertise.

This **Postgraduate Certificate in Exports to Unreal** contains the most complete and up-to-date educational program on the market. Its most notable features are:

- ♦ The development of case studies presented by experts in 3D modeling with engines such as Unreal Engine
- ♦ 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 self-assessment can be used 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 to perform basic post-processing to create renders with excellent visual effects"



Enroll in this online Postgraduate Certificate and learn to make high-quality exports to Unreal Engine"

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.

This training will enhance the skills of video game designers in high-quality rendering with Unreal Engine.

Learn to produce like a true expert with Unreal Engine, the game engine behind acclaimed audiovisual productions and video games.



02 Objectives

This Postgraduate Certificate in Exports to Unreal is a comprehensive and specialized training program designed for video game design professionals who wish to deepen their knowledge of one of the leading tools in 3D modeling. The student will learn all the steps required to export their renders to the platform and work on their lighting, focus, and perspective of the final models. Additionally, it focuses on post-production and the development of the resources for each program to achieve the best effect for their models.



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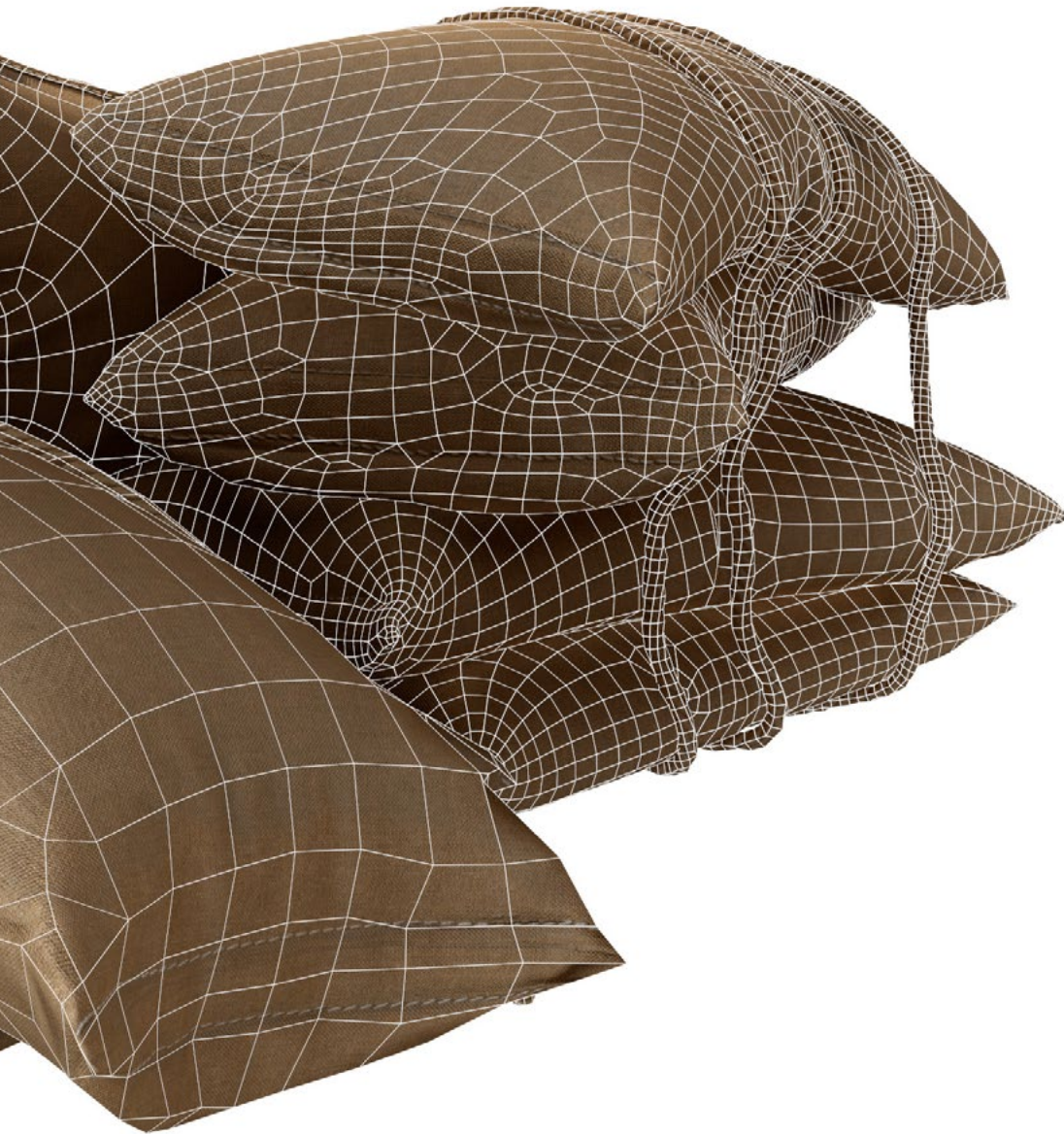
Learn to recognize all the steps for exporting your renders to the platform and work on their lighting, focus, and perspective”



General Objectives

- ◆ Know in depth all the steps to export a professional 3D modeling to Unreal
- ◆ Master several programs focused on modeling, texturing, real time and rendering used today in the professional world
- ◆ Apply the knowledge acquired in solving modeling problems
- ◆ Know and understand in detail how textures work and how they influence 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

- ◆ Handle the real-time Unreal Engine in such a way that it performs perfectly when working with a 3D model and its textures
- ◆ Understand the properties of Unreal materials
- ◆ Know how to work with and understand Unreal material nodes, giving effects to textures to achieve unique materials
- ◆ Correctly light an Unreal scene in a realistic way according to the desired ambience
- ◆ Configure Unreal Lightmaps, achieving better resolution and optimizing engine performance
- ◆ Perform basic post-processing for rendering with good visual effects



Learn to master the Unreal Engine real-time engine so that you can handle your 3D models and textures with perfection"

03

Course Management

Renowned industry experts have developed this program to position video game designers within the niche job opportunities as professional profiles in the field. The teachers of this Postgraduate Certificate enjoy the highest prestige in their field and have dedicated a large part of their careers to develop their texturing and rendering techniques. Students will learn all the relevant skills and knowledge to become the most sought-after professionals in this industry.



“

Learn from the top experts in the field, who have developed this program to position video game designers within the niche job opportunities”

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
- ♦ Designer 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

Faculty

Ms. Jiménez Vaquero, Laura

- ♦ Organic and props modeler, grooming, texturing and shading artist
- ♦ Organic and Inorganic 3D modeler at Utopia Avatars at EGO W3RLD
- ♦ Development of 3D hard surface modeling for advertising campaigns at Kutuko Studio
- ♦ Development of organic modeling for advertising campaign at Nein Club
- ♦ Development of 3D modeling for interior design at Miltidesign
- ♦ Realization and coordination of the women's collective exhibition "Femenino plural"
- ♦ Image work for 2D animation "Naturaleza Encendida" at the Royal Botanical Garden of Madrid
- ♦ Degree in Fine Arts from the Complutense University of Madrid
- ♦ Master's Degree in Organic Modeling by Lightbox Academy

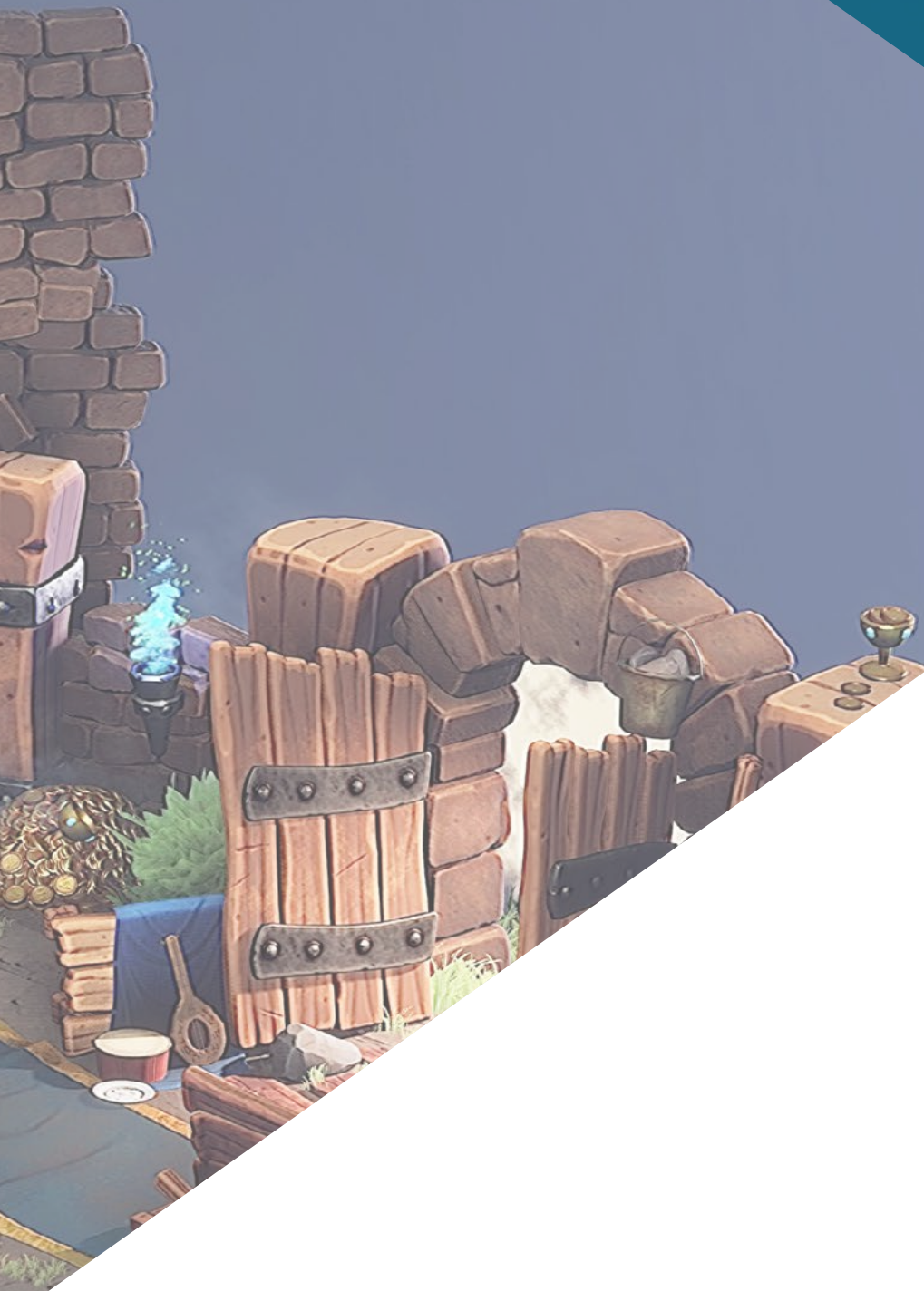


04

Structure and Content

This Postgraduate Certificate offers specialized content that delves into the techniques of this leading program in the world of 3D graphic design and editing for video games. The faculty of this program ensures that, upon completion of this training, the design professional will be able to master this tool with perfection. The content is focused on techniques such as texturing, lighting, rendering, and nodes, as well as advanced and specific configurations of the program.



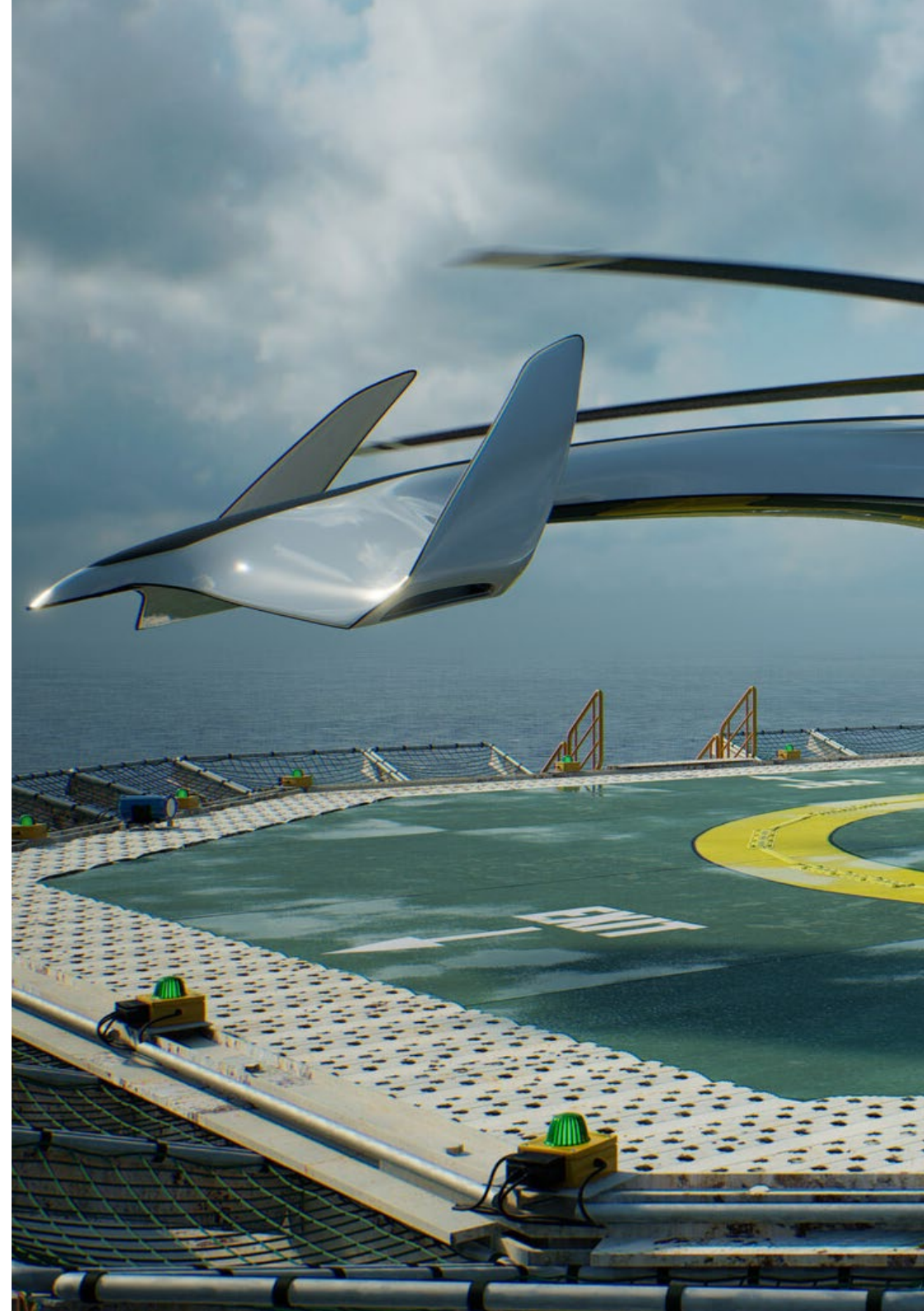


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The faculty of this program ensures that, upon completion of this training, the design professional will be able to master this tool with perfection”

Module 1. Exports to Unreal

- 1.1. Unreal Engine
 - 1.1.1. Game Exporter
 - 1.1.2. Create New Project and Controls
 - 1.1.3. Importing Models into Unreal
- 1.2. Basic Properties of Materials
 - 1.2.1. Create Materials and Nodes
 - 1.2.2. Constant and Its Values
 - 1.2.3. Texture Sample
- 1.3. Common Material Nodes
 - 1.3.1. Multiply
 - 1.3.2. Texture Coordinate
 - 1.3.3. Add
 - 1.3.4. Fresnel
 - 1.3.5. Panner
- 1.4. Materials and Bloom
 - 1.4.1. Linear Interpolate
 - 1.4.2. Power
 - 1.4.3. Clamp
- 1.5. Textures to Modify the Material
 - 1.5.1. Masks
 - 1.5.2. Transparent Textures
 - 1.5.3. Match Color
- 1.6. Basic Lighting
 - 1.6.1. Light Source
 - 1.6.2. Skylight
 - 1.6.3. Fog





- 1.7. Fill and Creative Lighting
 - 1.7.1. Point Light
 - 1.7.2. Spot Light y Rect Light
 - 1.7.3. Objects as Light Sources
- 1.8. Night Lighting
 - 1.8.1. Light Source Properties
 - 1.8.2. Fog Properties
 - 1.8.3. Skylight Properties
- 1.9. Lightmaps
 - 1.9.1. Viewer Modes. Lightmap Density
 - 1.9.2. Improve Lightmaps Resolution
 - 1.9.3. Lightmass Importance Volume
- 1.10. Rendering
 - 1.10.1. Cameras and Their Parameters
 - 1.10.2. Basic Post-Processing
 - 1.10.3. High-Resolution Screenshot



*Become an expert in exports
to Unreal Engine with this
Postgraduate Certificate"*

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.

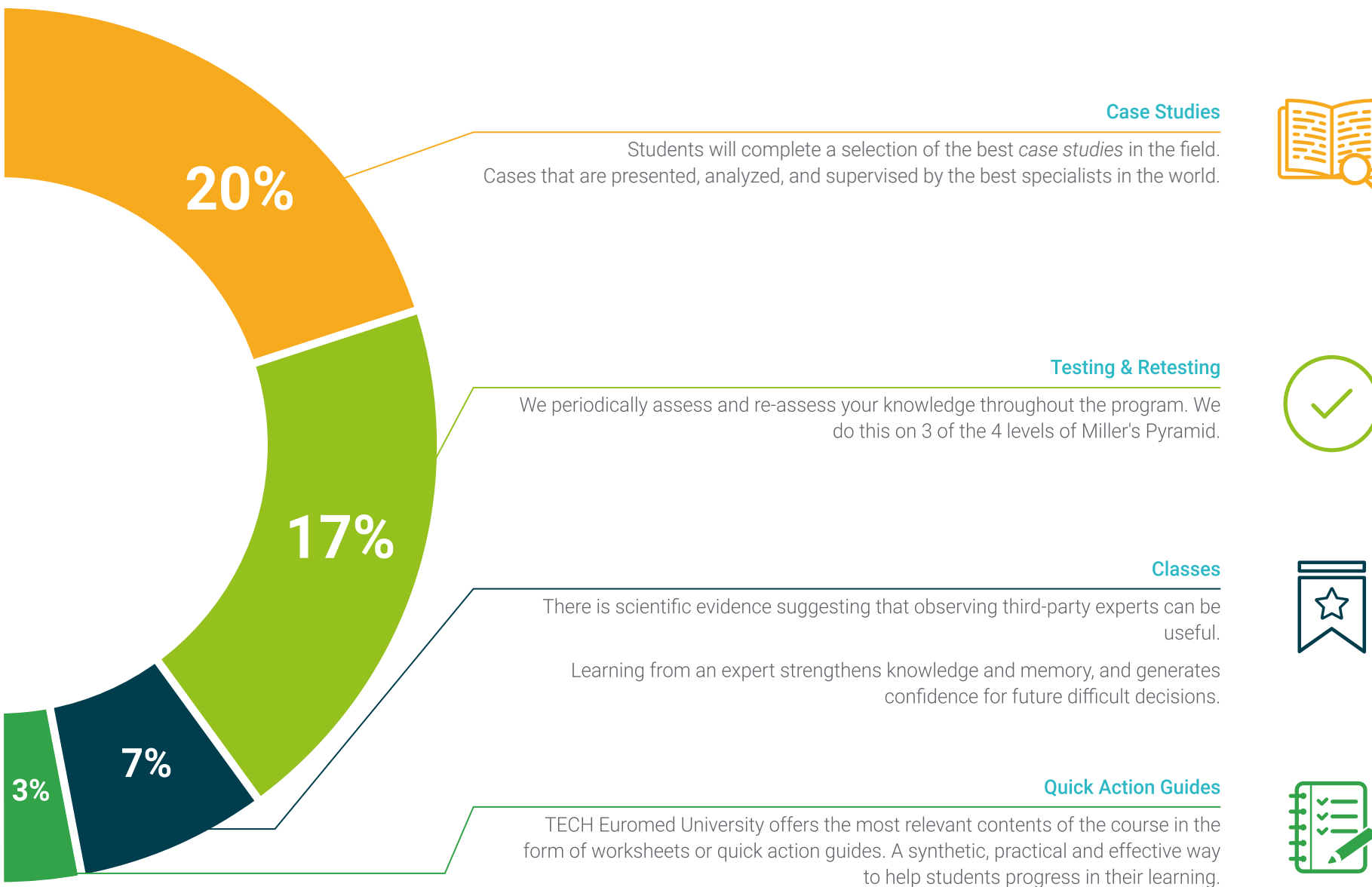
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 Exports to Unreal 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 Exports to Unreal** 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 Exports to Unreal**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





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