



Postgraduate Certificate VRAY Rendering

in 3ds Max

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Accreditation: 6 ECTS

» Schedule: at your own pace

» Exams: online

We b site: www.techtitute.com/us/videogames/postgraduate-certificate/rvray-rendering-3 ds-max

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tech 06 | Introduction

An industry that thrives on technological updates to improve the quality of its products, such as video game production, also requires professionals who can meet the demand for specialization. This Postgraduate Certificate focuses on this leading rendering tool in the field, aiming to update knowledge and respond to the needs of the job market.

This educational program focuses on gaining an in-depth understanding of the VRAY engine for 3ds Max, delving into the more advanced rendering options for the user to apply as needed. It also focuses on mastering the software's native materials, working with them through nodes, as well as transferring textures created in Substance Painter to the VRAY engine and configuring the scene lighting.

Additionally, this training offers insights on how to add more detail to the designed model without needing to alter or add to the geometry. Another key area of focus is learning how to intelligently position the model and camera to create an interesting scene, and how to create both static and animated renders of your model.

With a fully online learning method, this Postgraduate Certificate is based on the autonomous learning of students, structured so that they can set their own pace of work without interrupting other personal or professional projects. Moreover, all multimedia material and educational resources will always be available on the virtual platform.

This **Postgraduate Certificate in VRAY Rendering in 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 VRAY Rendering in 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
- 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



Enroll in this Postgraduate Certificate and have the content always available to progress in your knowledge at your own pace"



Advanced configurations to achieve realistic renders with the VRAY engine in 3ds Max will pose no difficulty for you after completing this Postgraduate Certificate"

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.

Gain specialized knowledge in rendering with VRAY in 3ds Max through this Postgraduate Certificate.

With a perfectly structured curriculum, in 6 weeks you will have developed all the skills needed to render with VRAY in 3ds Max.







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General Objectives

- Gain a deep understanding of all the steps required to render a professional-level 3D model
- Learn and understand in detail how rendering engines work and how they influence modeling
- Master various programs and engines focused on modeling, texturing, and real-time rendering currently used 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

- In-depth knowledge of the Vray engine assigned to the 3DS Max program
- Configure rendering options to assign the ideal rendering engine
- Get to know VRay's own materials and work with them through nodes
- Migrate textures created in Substance Painter to VRay engine
- Configure the lighting of our VRay scene
- Give more details to our model without the need to change or add geometry
- Intelligently position our model and camera to create an interesting scene
- Make static and animated renders of 3D modeling



With this training, you will be equipped in 6 weeks to use the most advanced VRAY configurations in 3ds Max"





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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







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Module 1. Rendering with VRay Engine in 3ds Max

- 1.1. VRay Render Engine Assignment
 - 1.1.1. Preparation of the Rendering Space
 - 1.1.2. Render Setup Options and Assign Render
 - 1.1.3. Optimize Rendering Time
- 1.2. Lighting and Light Creation
 - 1.2.1. 3-Point Lighting
 - 1.2.2. Light Setup
 - 1.2.3. Render Region
- 1.3. Creation and Application of Materials
 - 1.3.1. VRay Materials
 - 1.3.2. VRay Materials Settings
 - 1.3.3. Self-Illumination
- 1.4. From Substance Painter to VRay
 - 1.4.1. Connect Nodes and Material Settings
 - 1.4.2. Export Presets
 - 1.4.3. Set Up Smart Material in VRay
- 1.5. Details and Positioning in the Scene
 - 1.5.1. Application of Shades According to the Position of the Model
 - 1.5.2. Adjust Model and Silhouette
 - 1.5.3. Metallic Base
- 1.6. Surface Rounding
 - 1.6.1. VRayEdgeTex
 - 1.6.2. Functionality and Setup
 - 1.6.3. Rendering With and Without Rounding
- 1.7. Field of View
 - 1.7.1. Camera and Shot
 - 1.7.2. Camera Aperture
 - 1.7.3. Field of View





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- 1.8. Ambient Occlusion and Global Illumination
 - 1.8.1. Gl and Render Elements
 - 1.8.2. VRayExtraTex and VrayDirt
 - 1.8.3. Global Illumination Multiplier
- 1.9. Rendering of a Static Frame
 - 1.9.1. Adjust Render Values
 - 1.9.2. Save Final Render
 - 1.9.3. Composition of Ambient Occlusion
- 1.10. Rendering of a Sequence
 - 1.10.1. Camera Animation
 - 1.10.2. Rendering Options for Sequence
 - 1.10.3. Frame Assembly for the Sequence



Specialize your professional career and acquire better skills in the rendering process with VRAY in 3ds Max through this convenient program"





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.



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"

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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.



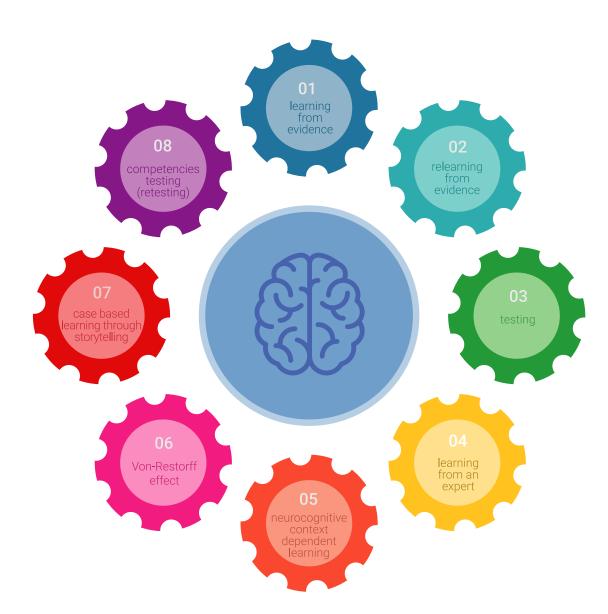
Relearning Methodology

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.

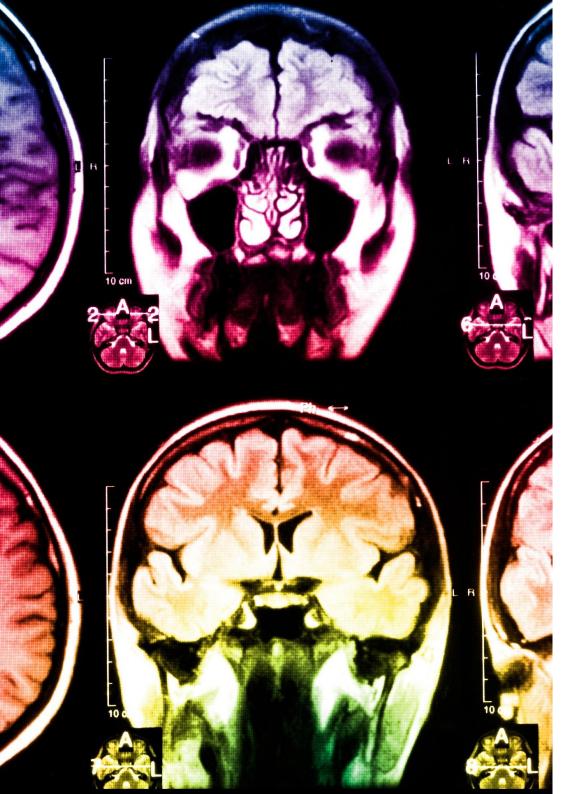


The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH Euromed University graduates.

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.



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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

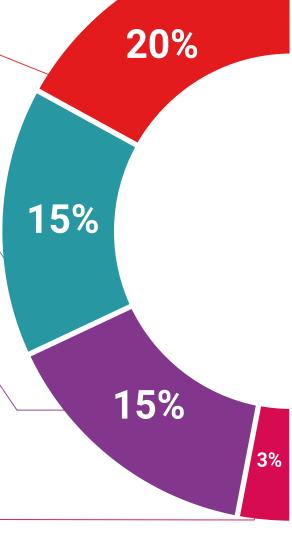
You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



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.

Case Studies

Students will complete a selection of the best *case studies* in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.

Testing & Retesting



We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.

Classes



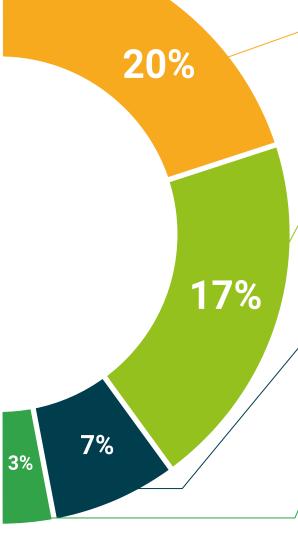
There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence for future difficult decisions.

Quick Action Guides



TECH Euromed University offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical and effective way to help students progress in their learning.







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This private qualification will allow you to obtain a **Postgraduate Certificate in VRAY Rendering in 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 VRAY Rendering in 3ds Max

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



has successfully passed and obtained the title of:

Postgraduate Certificate in VRAY Rendering in 3ds Max

This is a private qualification of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



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

health confidence people information tutors guarantee as teaching technology



Postgraduate Certificate VRAY Rendering in 3ds Max

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

