



Postgraduate Certificate Baking in Art for Virtual Reality

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/in/videogames/postgraduate-certificate/baking-art-virtual-reality

Index

 $\begin{array}{c|c} 01 & 02 \\ \hline & Dijectives \\ \hline & 03 \\ \hline & Course Management \\ \hline & & p. 12 \\ \hline \end{array}$

06 Certificate

p. 28





tech 06 | Introduction

The Postgraduate Certificate in Art Baking for Virtual Reality will allow professionals to improve their artistic creations mainly designed to be part of Virtual Reality video game projects.

This program provides a specialization in one of the most important creation phases in 3D modeling: Baking. Transferring all the information from a High Poly modeling to the Low Poly mesh with a professional result requires a solid knowledge of Baking, which can be acquired during the 6 weeks of this program.

A team of teachers who are experts in the field of artistic design and video game creation will pour their knowledge into this program to help boost the careers of professionals who want to thrive in an up-and-coming industry.

A unique opportunity within everyone's reach, thanks to the TECH philosophy, which allows quality learning with a 100% online methodology and the Relearning system, students only need a device with an Internet connection to access video summaries, complementary readings and simulations of real cases.

This **Postgraduate Certificate in Baking in Art for Virtual Reality** 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 Art for Virtual Reality.
- 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



With this Postgraduate Certificate your artistic creations will attract the attention of the big VR game studios"



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

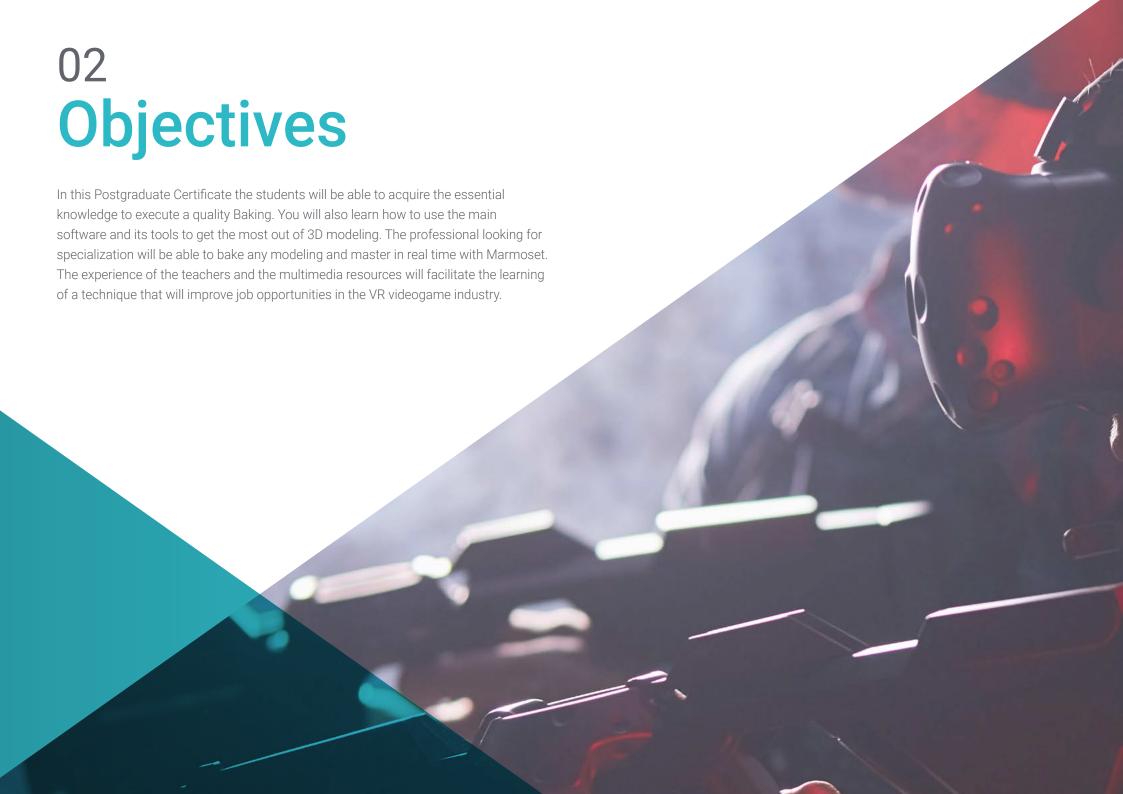
The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

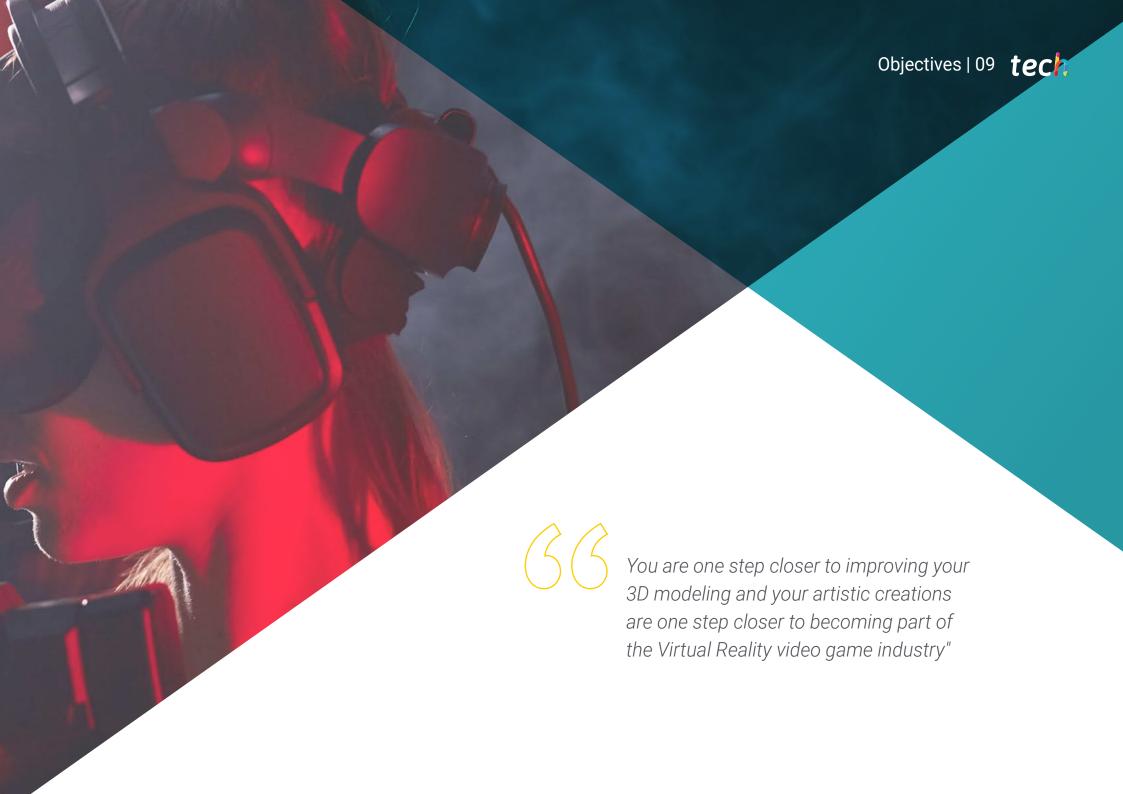
This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the educational year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

Perfect the technique of Baking in your 3D modeling and immerse yourself in the Virtual Reality videogame industry"

Be part of the teams of the major studios in the VR video game industry. Specialize with this Postgraduate Certificate"







tech 10 | Objectives



General Objectives

- Understand the advantages and constraints provided by Virtual Reality
- Develop quality Hard Surface modeling
- Create high-quality organic modeling
- Understand the principles of retopology
- Understand the basics of UV
- Master Baking in Substance Painter
- Expertly manage layers
- Be able to create a dossier and submit works at a professional level, at the highest quality
- Make a conscious decision on which programs best fit the Pipeline





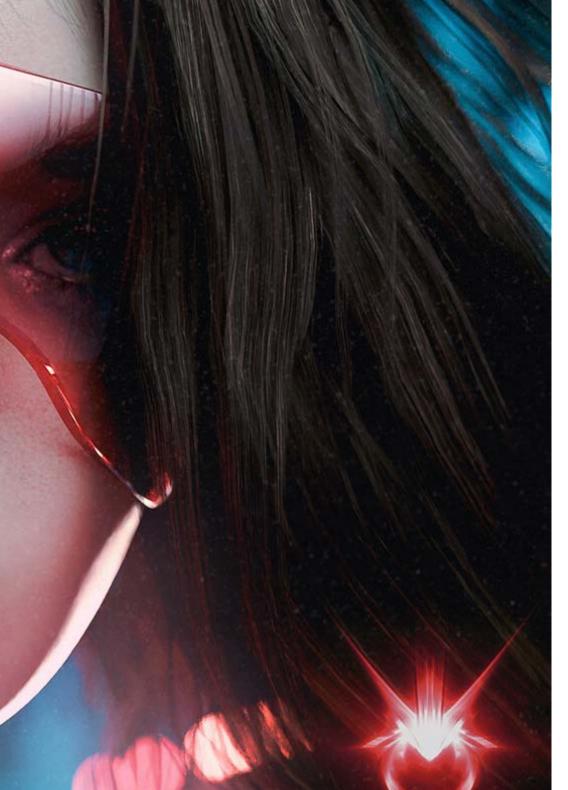


Specific Objectives

- Understand the principles of Baking
- Learn how to solve the problems that may arise when Baking a model
- Be able to bake any modeling
- Master baking in Marmoset in real time



The 100% online methodology is an advantage for those seeking to specialize without neglecting other areas of their personal lives"







tech 14 | Course Management

Management



Mr. Menéndez, Antonio Iván

- 3D model designer and texture artist at INMO-REALITY
- Props and environment artist for PS4 games at Rascal Revolt
- Graduated in Fine Arts at the UPV
- Specialist in Graphic Techniques from the University of the Basque Country
- Professional Master's Degree in Sculpture and Digital Modeling by the Voxel School of Madric
- Professional Master's Degree in Art and Design for Video Games by U-Tad University of Madrid





Professors

Mr. Márquez, Mario

- Audiovisual Operator PTM Pictures That Moves
- Gaming tech support agent at 5CA
- 3D and VR environment creator and designer at Inmoreality
- Art Designer at Seamantis Games
- Founder of Evolve Games
- Graduated in Graphic Design at the School of Art of Granada
- Graduated in Video Games and Interactive Content Design at the School of Art of Granada
- Professional Master's Degree in Game Design by U-Tad University of Madrid



A unique, key, and decisive training experience to boost your professional development"

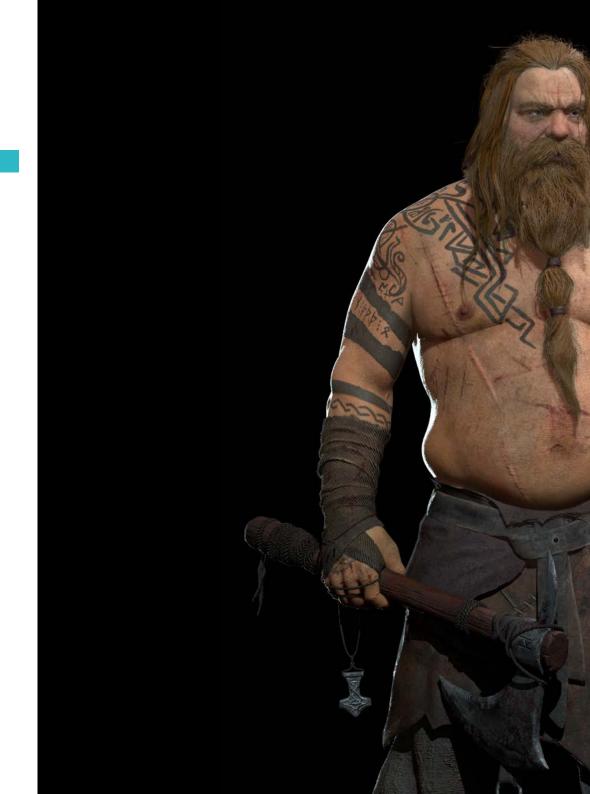




tech 18 | Structure and Content

Módulo1. Baking

- 1.1. Model Baking
 - 1.1.1. Preparing the Model for Baking
 - 1.1.2. Baking Principles
 - 1.1.3. Processing Options
- 1.2. Model Baking: Substance Painter
 - 1.2.1. Baked in Substance Painter
 - 1.2.2. Low Poly Baking
 - 1.2.3. High Poly Baking
- 1.3. Model Baking: Boxes
 - 1.3.1. Using Boxes
 - 1.3.2. Adjusting Distances
 - 1.3.3. Computing Tangent Space per Fragment
- 1.4. Map Baking
 - 1.4.1. Normal
 - 1.4.2. ID
 - 1.4.3. Ambient Occlusion
- 1.5. Map Baking: Curvatures
 - 1.5.1. Curvature
 - 1.5.2. Thickness
 - 1.5.3. Improving Map Quality
- 1.6. Baking in Marmoset
 - 1.6.1. Marmoset
 - 1.6.2. Functions
 - 1.6.3. Baking in Realtime





Structure and Content | 19 tech

- 1.7. Setting Up the Document for Baking in Marmoset
 - 1.7.1. High Poly and Low Poly in 3Ds Max
 - 1.7.2. Organizing the Scene in Marmoset
 - 1.7.3. Verifying That Everything Is Correct
- 1.8. Panel Bake Project
 - 1.8.1. Bake Group, High and Low
 - 1.8.2. The Geometry Menu
 - 1.8.3. Load
- 1.9. Advanced Options
 - 1.9.1. Output
 - 1.9.2. Adjusting the Cage
 - 1.9.3. Setting Up Maps
- 1.10. Baking
 - 1.10.1. Maps
 - 1.10.2. Result Preview
 - 1.10.3. Baking Floating Geometry



Make a perfect bake and your artistic creations will reach a higher level, thanks to this Postgraduate Certificate"





tech 22 | Methodology

Case Study to contextualize all content

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



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



You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.



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

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.



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

The case method has been the most widely used learning system among the world's leading business 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. Over the course of 4 years, you will be presented with multiple practical case studies. You will have to combine all your knowledge, and research, argue, and defend your ideas and decisions.



Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study 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 one 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.



Methodology | 25 tech

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 skills and abilities in each subject 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.



Methodology | 27 tech



4%

3%

Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best 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 educational system for presenting multimedia content 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 their goals.





tech 30 | Certificate

This **Postgraduate Certificate in Baking in Art for Virtual Reality** contains the most complete and up-to-date educational program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: Postgraduate Certificate in Baking in Art for Virtual Reality Official N° of Hours: 150 h.



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

health confidence people

leducation information tutors
guarantee accreditation teaching
the still the set technology learning



Postgraduate Certificate Baking in Art for Virtual Reality

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

