



Postgraduate Certificate 3D Character Modeling

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

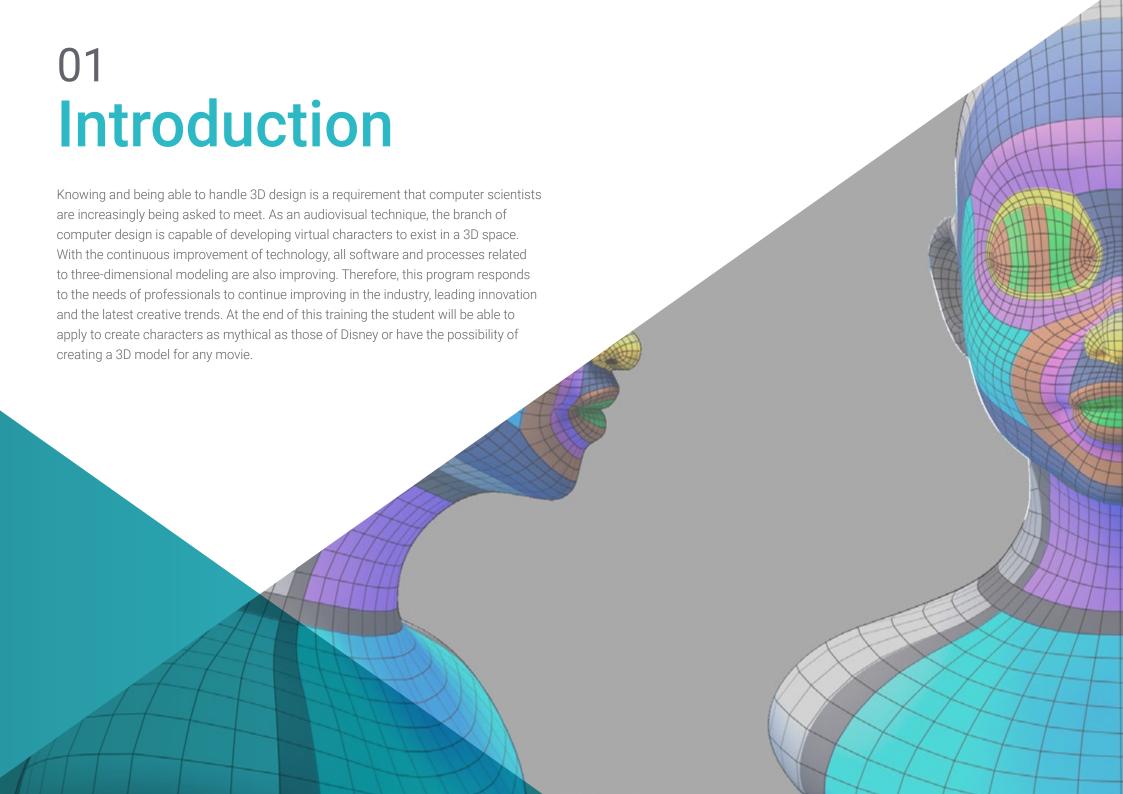
» Exams: online

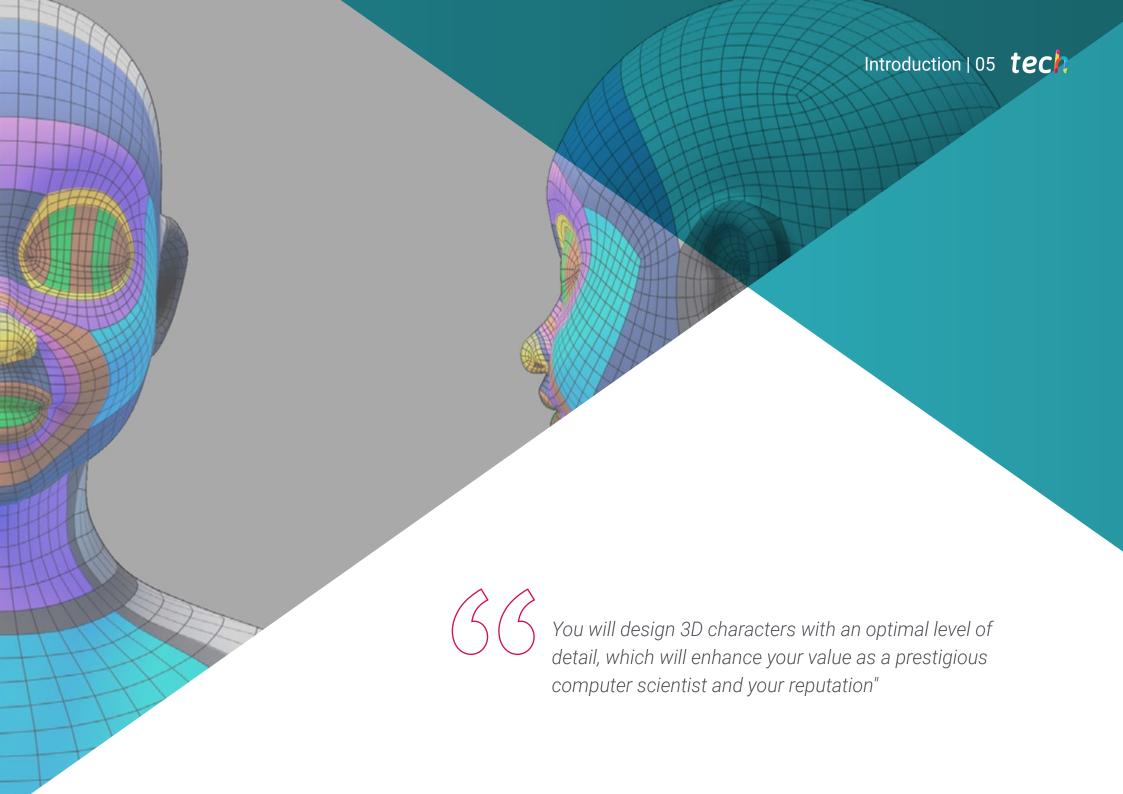
Website: www.techtitute.com/in/information-technology/postgraduate-certificate/postgraduate-certificate-3d-character-modeling

Index

> 06 Certificate

> > p. 28





tech 06 | Introduction

Whether watching an animated short film, a movie or playing a video game, 3D Character Modeling is an area of computer science and design that is constantly interacted with. In general, it is an indispensable part of the entertainment industry, since nowadays it is required to create many characters for video games, series or animated films

Taking into account all these circumstances, this Postgraduate Certificate has gathered the best possible content in 3D Character Modeling, with the most innovative techniques in the industry so that the student can stand out prominently in their daily work and can apply to projects and positions of greater relevance within the sector. Retopology, rendering, lighting or texturing are some of the aspects that this program deals with in depth.

A qualification that responds to all the needs of its students, as it is also taught completely online so that students can combine it with their personal or professional responsibilities. All didactic content is available from day one and can be downloaded to any device with an internet connection.

This **Postgraduate Certificate in 3D Character Modeling** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of practical cases presented by experts in 3D Character Modeling
- The graphic, schematic, and eminently 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
- Access to content from any fixed or portable device with an Internet connection



Get your qualification in 3D Character
Modeling directly, without the need to
do a final work"



You will be able to create characters for the best productions in video games or cinema thanks to the careful and detailed techniques taught by this program"

The program's teaching staff includes professionals from sector who contribute their work experience to this training 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 training programmed to train 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 academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

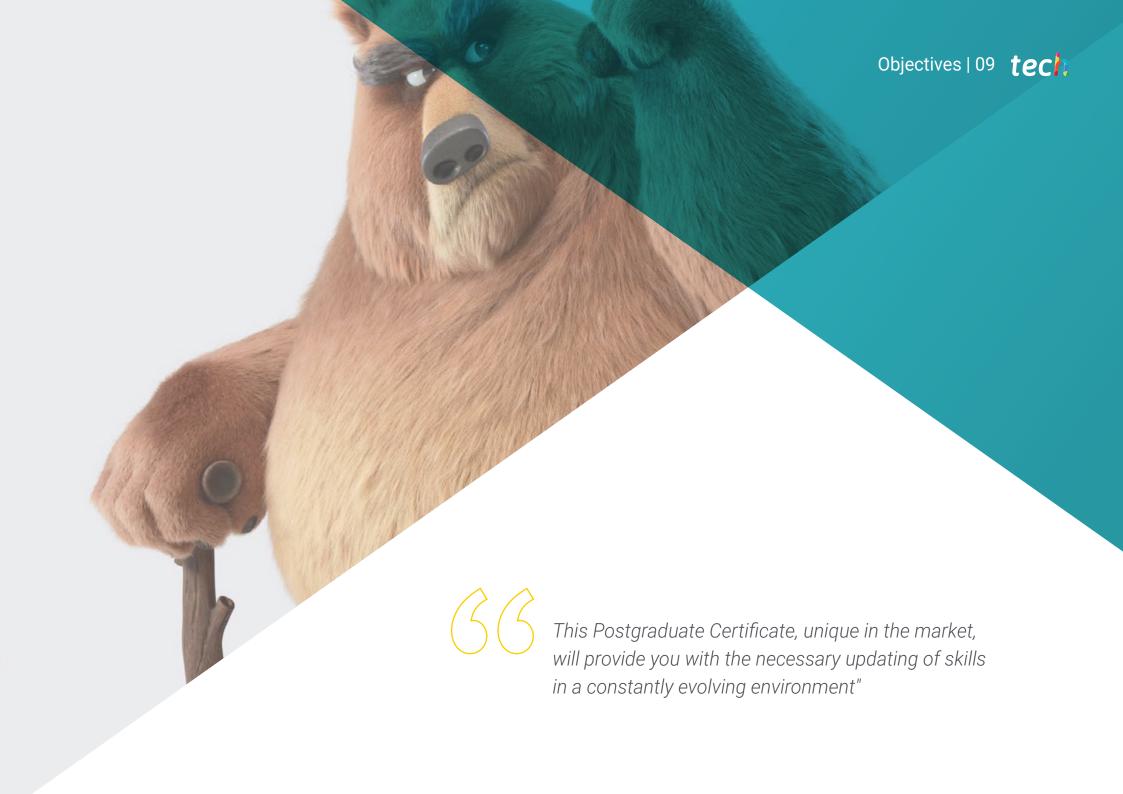
You will finish the qualification having knowledge in the most used software in the industry in the field of 3D modeling and sculpting.

This is the best time for you to stand out as a computer scientist by creating the most detailed and realistic 3D characters.









tech 10 | Objectives



General objectives

- Expand knowledge of human and animal anatomy in order to develop hyper-realistic creatures
- Master the retopology, UVS and texturing to perfect the models created
- Create an optimal and dynamic workflow to work more efficiently with 3D modeling
- Have the skills and knowledge most in demand in the 3D industry to be able to apply for the best jobs





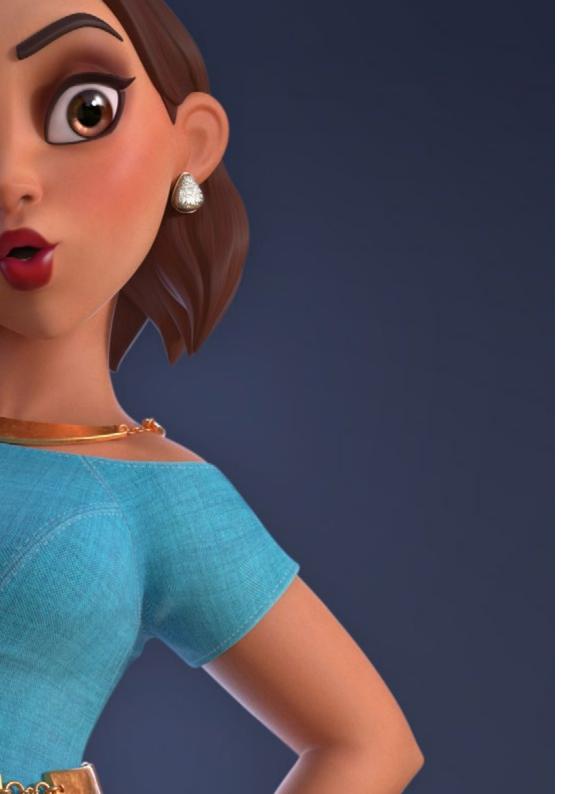


Specific objectives

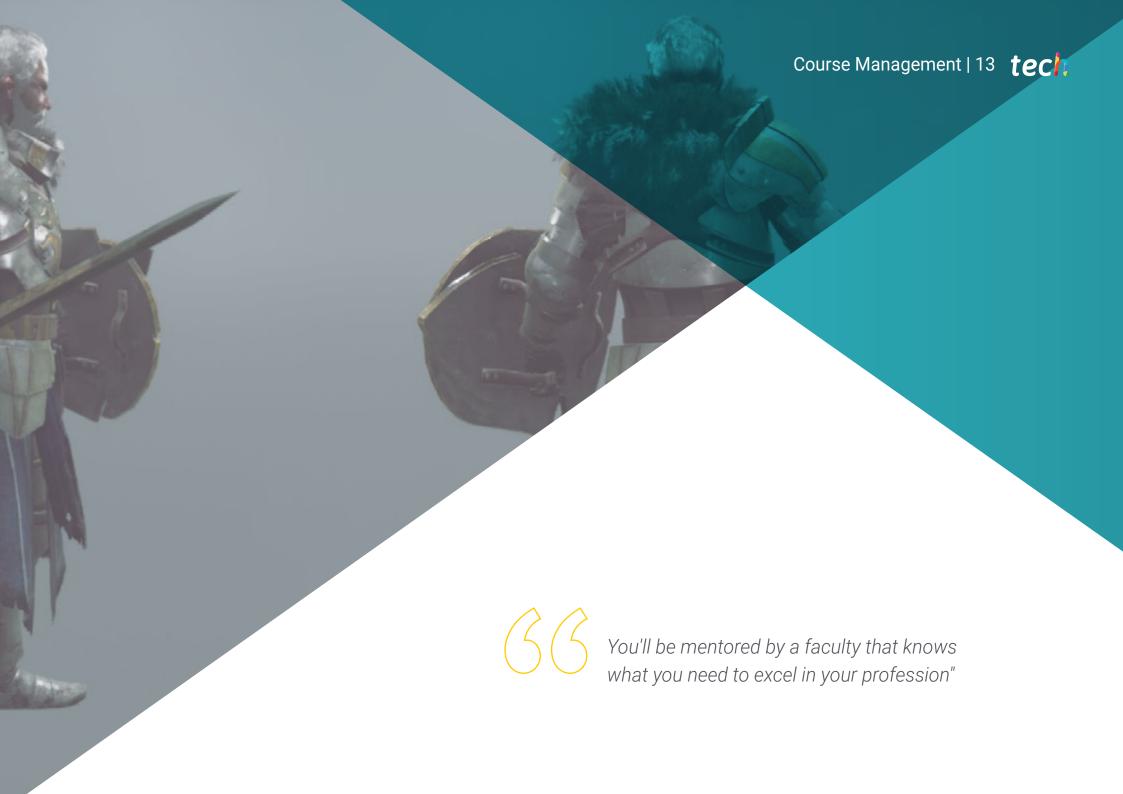
- Focus anatomical knowledge in simpler, cartoon-like forms
- Create a *cartoon* model from the base to the detail by applying what has been previously learned
- Review the techniques learned in the course in a different modeling style



You will be able to become a 3D computer scientist in film, advertising and video game companies, as well as a great digital sculptor who can freelance"







tech 14 | Course Management

Management



Ms. Gómez Sanz, Carla

- 3D Generalist at Blue Pixel 3D
- Concept Artist, 3D Modeler, Shading in Timeless Games Inc
- Collaboration with multinational consulting firm for the design of vignettes and animation for commercial proposal
- Advanced Technician in 3D Animation, video games and interactive environments at CEV School of Communication, Image and Sound
- Master's Degree and Bachelor's Degree Degree in 3D Art, Animation and Visual Effects for video games and cinema at CEV School of Communication, Image and Sound







tech 18 | Structure and Content

Module 1. Stylized Characters

- 1.1. Choice of a Stylized Character and *Blocking* of Base Forms
 - 1.1.1. References and Concept Arts
 - 1.1.2. Base Forms
 - 1.1.3. Deformities and Fantastic Shapes
- 1.2. Conversion of our Low Poly into High Poly Model: Head, Hair and Face Sculpting
 - 1.2.1. Head *Blocking*
 - 1.2.2. New Hair Creation Techniques
 - 1.2.3. Improvements
- 1.3. Model Refinement: Hands and Feet
 - 1.3.1. Advanced Sculpting
 - 1.3.2. Refinement of General Shapes
 - 1.3.3. Shape Cleaning and Smoothing
- 1.4. Creation of Jaw and Teeth
 - 1.4.1. Creation of Human Teeth
 - 1.4.2. Increase its Polygons
 - 1.4.3. Fine Detailing of Teeth in *Zbrush*
- 1.5. Modeling Clothing and Accessories
 - 1.5.1. Types of Cartoon Clothing
 - 1.5.2. Zmodeler
 - 1.5.3. Applied Maya Modeling
- 1.6. Retopology and Clean Topology Creation from Scratch
 - 1.6.1. Retopology
 - 1.6.2. Loops According to the Model
 - 1.6.3. Optimization of the Mesh
- 1.7. UV Mapping and Baking
 - 1.7.1. UVS
 - 1.7.2. Substance Painter: Baking
 - 1.7.3. Polishing Baking





Structure and Content | 19 tech

- 1.8. Texturing and Painting In Substance Painter
 - 1.8.1. Substance Painter: Texturing
 - 1.8.2. Hand Painted Cartoon Techniques
 - 1.8.3. Fill Layers with Generators and Masks
- 1.9. Lighting and Rendering
 - 1.9.1. Lighting of Our Character
 - 1.9.2. Color Theory and Presentation
 - 1.9.3. Substance Painter: Render
- 1.10. Posing and Final Presentation
 - 1.10.1. Diorama
 - 1.10.2. Posing Techniques
 - 1.10.3. Presentation of Models



You will create a portfolio that will serve you to achieve professional success and occupy the best positions"





tech 22 | Methodology

At TECH we use the Case Method

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



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



We are the first online university to combine Harvard Business School case studies with a 100% online learning system based on repetition.



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

A learning method that is different and innovative.

This intensive Information Technology program at TECH Technological University prepares you to face all the challenges in this field, both nationally and internationally. We are committed to promoting your personal and professional growth, the best way to strive for success, that is why, at TECH Technological University, you will use Harvard case studies, with which we have a strategic agreement that allows us, to offer you material from the best university in the world.



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 Information Technology 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. Throughout the Postgraduate Certificate, students will be confronted with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.



Relearning Methodology

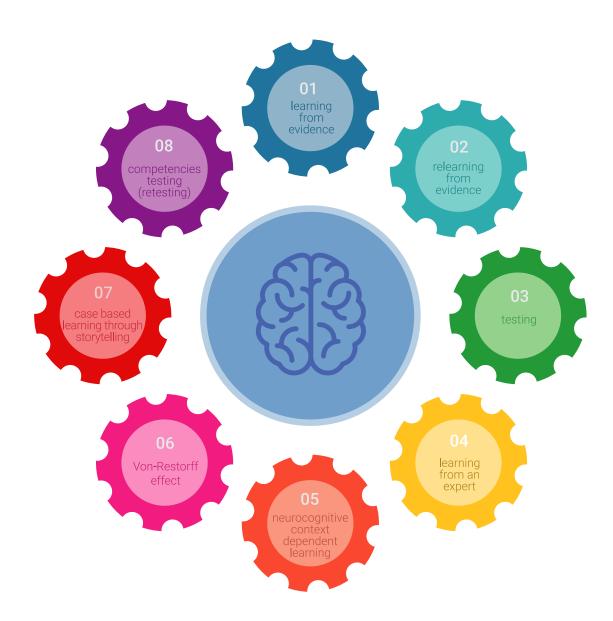
Our university is the first in the world to combine Harvard University *case studies* with a 100%-online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance Harvard *case studies* 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 university 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 competencies and skills in each thematic 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.

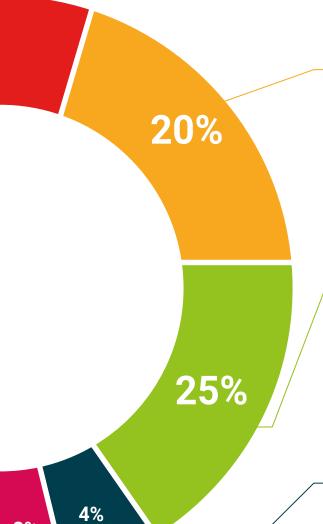


Additional Reading

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



3%

Case Studies

They will complete a selection of the best case studies in the field used at Harvard. Cases that are presented, analyzed, and supervised by the best senior management 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 multimedia content presentation training Exclusive system was awarded by Microsoft as a "European Success Story".

Testing & Retesting

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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 your goals.





tech 30 | Certificate

This **Postgraduate Certificate in 3D Character Modeling** contains the most complete and updated program on the market.

After the student has passed the evaluations, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** by 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 3D Character Modeling

Official No of Hours: 150 hours.



technological university

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