Postgraduate Certificate
3D Clothing Simulation

tech. technological university

Postgraduate Certificate
3D Clothing Simulation

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

Website: **www.techtitute.com/us/design/postgraduate-certificate/3d-clothing-simulation**

Index

01
Introduction

All the clothing of the characters and 3D models must be taken care of to the smallest detail, as they are an intrinsic part of their own style and personality. Even parts of the story or plot of the characters can be told through the clothes, evolving with them in time. Therefore, 3D designers must have an advanced knowledge of how to create and simulate the correct behavior of clothing in order to make it as realistic as possible. Thanks to this qualification, students will be able to distinguish themselves in their design department and improve their chances of career advancement, taking responsibility for larger projects or undertaking their own.

You will have the solution to all types of garments and textiles difficult to recreate in 3D thanks to the knowledge of this Postgraduate Certificate"

The simulation of the 3D clothing must be close to perfection, because a bad behavior of the clothing later in the animation or rigging phase can cause the model to look bad or unrealistic.

Not only this, but the outfit of the characters and creatures must be carefully designed to the millimeter, as the multiple details contained in a good outfit make the final quality of the model much better and more memorable for the audience, reminiscent of Cloud's extensive clothing in Final Fantasy or the minimalist clothing of the Na'vi in Avatar.

Therefore, the 3D design professionals can excel in their department and lead larger projects with an expert knowledge of simulating clothing in three-dimensional environments. Responding to this demand, TECH has prepared a Postgraduate Certificate with complete content in which the student can obtain that distinctive and definitive advantage to relaunch their professional career by modeling high-quality clothing for their own personal and professional projects.

In addition, the program is delivered completely online, without the need to attend a physical center or adhere to a schedule. As there are no classes, it is the student who chooses when, where and how to take on the entire teaching load of the teaching material, which is available on the web platform from the first day of the program.

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

◆ The development of case studies presented by experts in 3D modeling

◆ 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

◆ Access to content from any fixed or portable device with an Internet connection

Create outfits as mythical as those of Hollywood blockbusters, putting your modeling projects at the forefront of the industry"
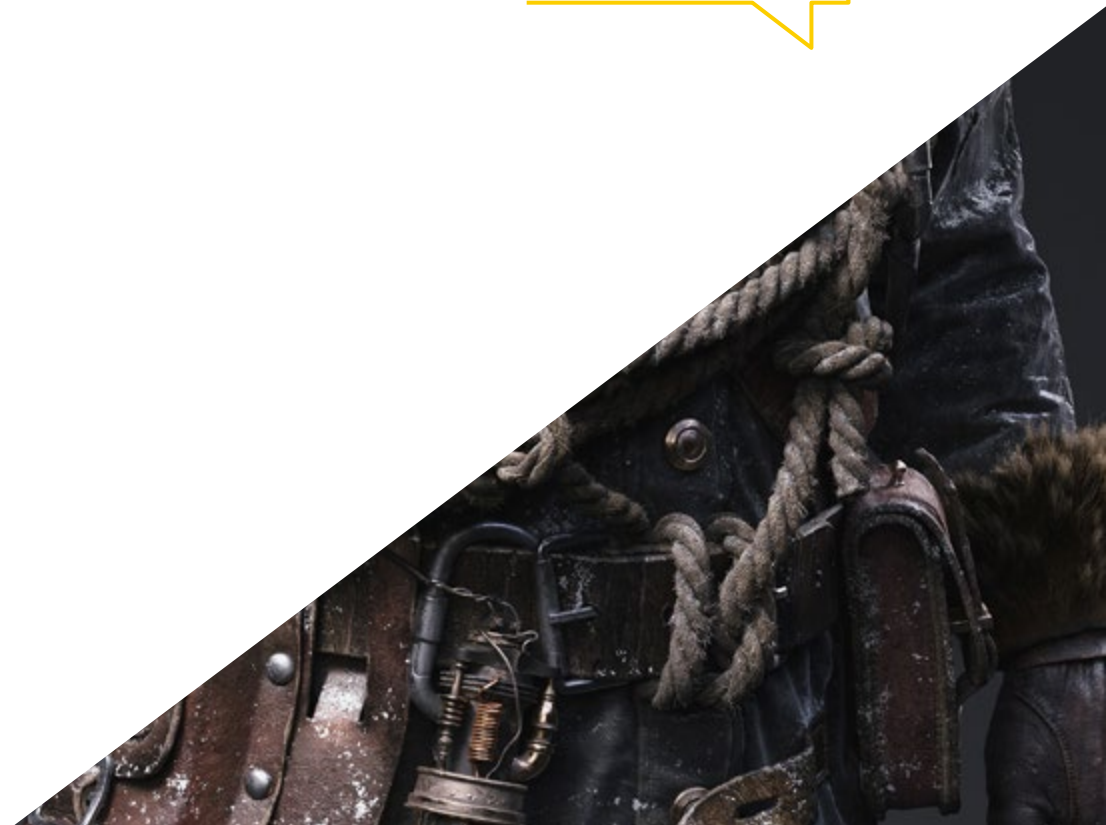
Learn the natural behavior of clothing and lead the most important 3D modeling projects in your department.

From complicated alien costumes to beautiful indigenous garments, there won't be any kind of clothing you can't resist modeling and simulating in 3D.

"

This is the professional opportunity you've been waiting for to bring out all your creative potential, creating the best possible outfits"

The program's teaching staff includes professionals from the 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 throughout the program. This will be done with the help of an innovative system of interactive videos made by renowned experts.

02
Objectives

The objective of the students of this qualification is to obtain professional improvement that will not only have an impact on their work style and quality of work, but also on a deserved promotion or a more professional performance in their personal projects. That is why TECH ensures that its qualifications are of the highest-possible quality, offering its students advanced knowledge in simple and complex clothing patterns, garment refinements and fabric shading in Maya, among others.

By enrolling today in this TECH qualification, you will be one step closer to a career advancement in the world of design, becoming a complete expert in three-dimensional clothing simulation"

General Objectives

- Expand knowledge of human and animal anatomy in order to develop hyper-realistic creatures
- Master 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

♦ Study the use of Marvelous Designer

♦ Create fabric simulations in Marvelous Designer

♦ Practice different types of complex patterns in Marvelous Designer

♦ Delve into the professional *workflow* from Marvelous to ZBrush

♦ Develop the texturing and *shading* of clothes and fabrics in Mari

Don't miss the opportunity to improve your work and personal life. Join TECH and learn the essential fundamentals of 3D clothing simulation"

03
Course Management

For the development of this Postgraduate Certificate TECH has selected the best possible teachers in the field, who with their extensive professional skills have provided the teaching material with all the skills and abilities needed by the student to excel in 3D clothing modeling. Additionally, the student is guaranteed access to an up-to-date theory adapted to current market demands as well as to the latest 3D modeling programs and software.

"

This will be your best asset to be able to apply for higher ranking positions within your own company, demonstrating that you are capable of making clothes of attention to detail and high quality"

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 proposals
- 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 in 3D Art, Animation and Visual Effects for video games and cinema at CEV School of Communication, Image and Sound

Structure and Content

This Postgraduate Certificate in 3D Clothing Simulation from TECH is created based on the highest standards of current educational methodology. This assures the students that they will have access to material with a structure and content designed with their professional needs in mind, containing the latest innovations in programs such as Mari or ZBrush. Additionally, the students will also learn how to improve their own workflow, which will significantly increase the performance of their projects.

"Take on the challenge of modeling the clothes of mythical characters from movies and video games or create them yourself. You'll have all the tools you need to do that"

Module 1. Clothing Simulation

"Make your garments inspiring for designers around the world thanks to the refined talent and innovative techniques learned in this Postgraduate Certificate"

05
Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.**
This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.

Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

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 is the most widely used learning system in the best faculties in the world. 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 we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their 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.

01 learning from evidence

02 relearning from evidence

03 testing

04 learning from an expert

05 neurocognitive context dependent learning

06 Von-Restorff effect

07 case based learning through storytelling

08 competencies testing (retesting)

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. With this methodology we have 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, markets, and financial 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 that we are experiencing.

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.

30%

10%

8%

20%

25%

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.

06
Certificate

The Postgraduate Certificate in 3D Clothing Simulation guarantees students, in addition to the most rigorous and up-to-date education, access to a certificate issued by TECH Technological University.

" *Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"*

This **Postgraduate Certificate in 3D Clothing Simulation** contains the most complete and up-to-date 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 diploma 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 Clothing Simulation**

Official Nº of Hours: **150 h.**

tech technological university

Awards the following
DIPLOMA
to

Mr./Ms. _____, with identification number _____.
For having passed and accredited the following program

POSTGRADUATE CERTIFICATE
in

3D Clothing Simulation

This is a qualification awarded by this University, equivalent to 150 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country.   Unique TECH Code: AFWORD23S   techtitute.com/certificates

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

tech technological university

Postgraduate Certificate
3D Clothing Simulation

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

Postgraduate Certificate
3D Clothing Simulation

tech technological university