

Postgraduate Certificate Humanoid Modeling



Postgraduate Certificate Humanoid Modeling

- » 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/humanoid-modeling

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01

Introduction

The visual impact of work in the digital industry is directly related to the improvement of techniques and the use of new technologies. In the art of Digital Sculpting, a professional modeler must know the best practices for the character creation process. This requires a good knowledge of human anatomy and topology applied to sculpture so that the models behave correctly and come to life through animation. Understand the perspective of texturing, integration into game engines or 3D printing. It is possible to learn all these concepts in only 6 weeks, thanks to the syllabus of this online study program.





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Obtain perfectly realistic designs by studying advanced Humanoid Modeling techniques”

In this Postgraduate Certificate in Humanoid Modeling, you will study the physiognomy of the human face, its topology to animate it and create the main expressions of a person using the *Morphers* modifier. This technique allows the modeler a high quality of execution that brings realistic results to each work.

In order to turn students into specialists of the medium, they will be taught to conform meshes correctly with different models. This course teaches students to optimize resources and produce results of optimum quality as part of a team or individually.

The student will be able to work with more artistic formats such as *Dynamesh* or use 3D scanning techniques by learning about the conformation of meshes to perform manual retopologies in different software.

With this 6-week online educational program and the support of an expert team of teachers throughout the learning process, the professional will obtain the necessary knowledge that will enable him/her to compete in the labor market. This is one of the most in-demand specializations in recent years.

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

- ◆ Practical cases presented by experts in 3D modeling and digital sculpture
- ◆ The graphic, schematic, and practical contents with which they are created, provide scientific and 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
- ◆ Content that is accessible from any fixed or portable device with an internet connection

“ Give a boost to your career with professional training in Humanoid Modeling. This specialty is useful in different sectors of the audiovisual industry”

“*Knowledge of character creation is essential for a good modeler. Learn everything you need to achieve unique models with this course*”

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 immersion 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.

TECH's educational system allows for quality teacher-student interaction. This facilitates the learning process.

Develop new skills in Hard Surface modeling with this Postgraduate Certificate.



02 Objectives

This Postgraduate Certificate opens the doors to professionalization by providing in-depth knowledge on the creation of *humanoids* models from all perspectives. Learn how to perfectly control posing systems and facial expressions using *Rig* with *con ZSpheres*, *Motion Capture* and *Morpher*.

Make projects more and more realistic thanks to the set of techniques and tools detailed in the syllabus, which will allow the professional to offer clients or employers differentiating results in the development of works designed in three dimensions.





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Training is a necessity for those who want to improve in their field of work"



General Objectives

- ◆ Understand human and animal anatomy to apply it to modeling, texturing, lighting and rendering processes in a precise way
- ◆ Understand the necessity of having an adequate topology at all levels of development and production
- ◆ Creation of realistic and high quality *cartoon* characters
- ◆ Advanced management and use of various organic modeling systems
- ◆ Understand the current demands of the movie and video game industries in order to offer best results





Specific Objectives

- ◆ Manage and apply anatomical knowledge to human sculpture
- ◆ Learn the correct topology of models to be used in 3D animation, video games and 3D printing
- ◆ Characterize and stylize humanized characters
- ◆ Produce manual retopologies with 3D Max, Blender and ZBrush
- ◆ Create groups of people and multiple objects
- ◆ Use predefined and human base meshes

“

Train to work in one of the most demanded specializations and boost your career opportunities to another level”

03

Course Management

To ensure that the learning process is properly developed, TECH Technological University has selected a high-level teaching staff composed of professional specialized in 3D modeling. These professors will transmit their knowledge through innovative methods so that students learn the subjects in an effective way and are able to integrate them in their professional activities.





“

A teaching team that will make your learning experience memorable”

Management



Mr. Sequeros Rodríguez, Salvador

- ◆ Freelance 2D/3D modeler and generalist
- ◆ Concept Art and 3D Models for Slicecore. Chicago
- ◆ Videomapping and modeling, Rodrigo Tamariz. Valladolid
- ◆ Professor of Higher-Level Training Cycle in 3D Animation. Higher Education School of Image and Sound ESISV. Valladolid
- ◆ Professor of Higher-Level Training Cycle GFGS in 3D Animation. European Institute of Design IED Madrid
- ◆ 3D modeling for Las Fallas designers Vicente Martinez and Loren Fandos. Castellón
- ◆ Master's Degree in Computer Graphics, Games and Virtual Reality. URJC University. Madrid
- ◆ Degree in Fine Arts at the University of Salamanca (specializing in Design and Sculpture)

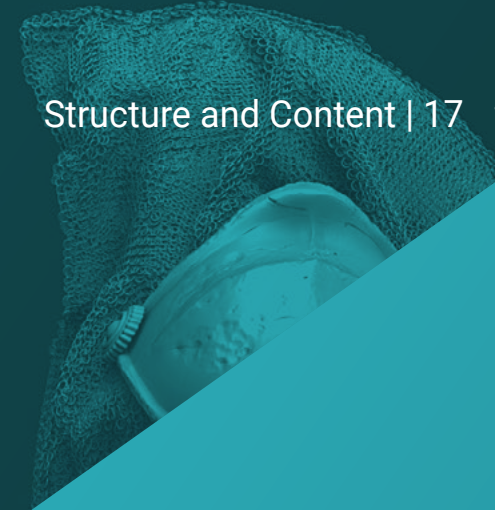


04

Structure and Content

The content of this Postgraduate Certificate is comprised of practical and theoretical material on Humanoid Modeling, arranged in a dynamic and secure environment to be studied online in a maximum of 6 weeks. It allows students to perfectly combine their current routine with the professional training process. Techniques and tools are delivered in an effective way thanks to interactive content that makes the user experience much more agile. You will be able to participate in communities of specialists and have access to forums, meeting rooms and private chats with your faculty, as well as to downloading the syllabus for consultation without an internet connection.





“At the end of this program, you will be able to create work teams without excessive rendering costs, which will help you to build complex scenes”

Module 1. *Humanoid*

- 1.1. Human Anatomy for Modeling
 - 1.1.1. Canon of Proportions
 - 1.1.2. Evolution and Functionality
 - 1.1.3. Superficial Muscles and Mobility
- 1.2. Lower Body Topology
 - 1.2.1. Trunk
 - 1.2.2. Legs
 - 1.2.3. Feet
- 1.3. Upper Body Topology
 - 1.3.1. Arms and Hands
 - 1.3.2. Neck
 - 1.3.3. Head, Face and Mouth Interior
- 1.4. Characterized and Stylized Characters
 - 1.4.1. Detailing with Organic Modeling
 - 1.4.2. Characterization of Anatomies
 - 1.4.3. Styling
- 1.5. Expressions
 - 1.5.1. Facial Animation and *Layer*
 - 1.5.2. *Morpher*
 - 1.5.3. Texture-Based Animation
- 1.6. Posing
 - 1.6.1. Character Psychology and Relaxation
 - 1.6.2. *Rig* with *ZSpheres*
 - 1.6.3. Posing with *Motion Capture*
- 1.7. Characterization
 - 1.7.1. Tattoos
 - 1.7.2. Scars
 - 1.7.3. Wrinkles, Freckles and Spots





- 1.8. Manual Retopology
 - 1.8.1. 3D Max Software
 - 1.8.2. Blender
 - 1.8.3. ZBrush and Projections
- 1.9. Predefined
 - 1.9.1. *Fuse*
 - 1.9.2. *VRoid*
 - 1.9.3. *MetaHuman*
- 1.10. Crowds and Recurring Spaces
 - 1.10.1. *Scatter*
 - 1.10.2. Proxies
 - 1.10.3. Groups of Objects



With the Postgraduate Certificate in Humanoid Modeling, you will learn to work with artistic formats such as Dynamesh or use 3D scanning techniques to perform manual retopologies in different software, all in 6 weeks"

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.



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

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.



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.

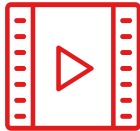
Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.

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.



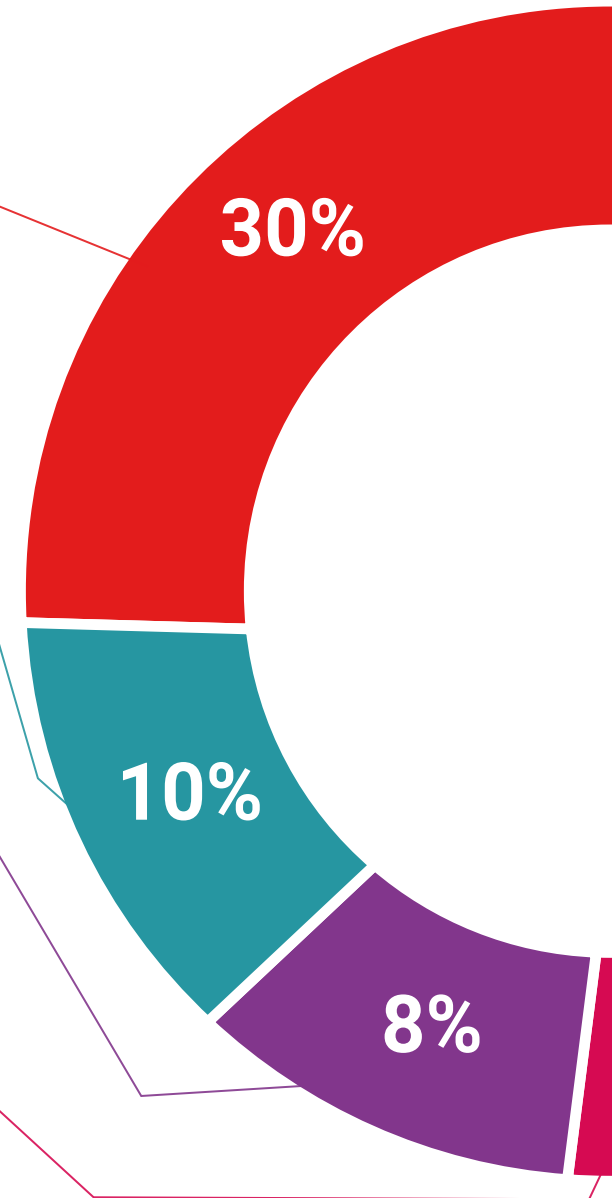
Practising Skills and Abilities

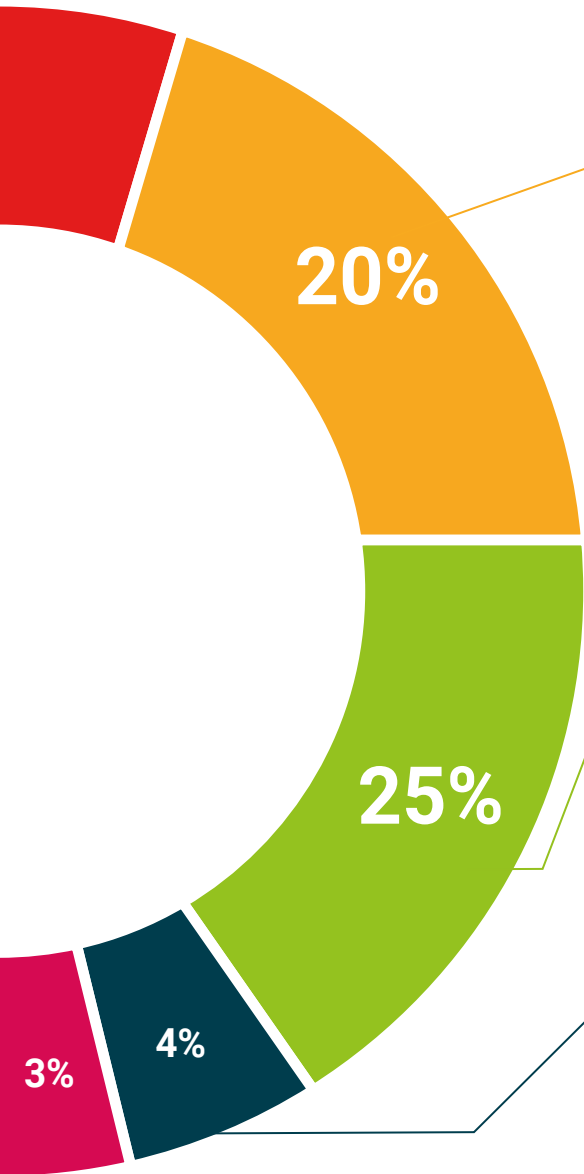
They will carry out activities to develop specific competencies and skills in each thematic area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



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.





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 Humanoids Modeling guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Humanoid Modeling** contains the most complete and up-to-date program on the market.

After students have 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 Humanoid Modeling**

Official N° of hours: **150 h.**



*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.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present quality
development language
classroom



Postgraduate Certificate Humanoid Modeling

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

Postgraduate Certificate Humanoid Modeling

