

# Postgraduate Certificate 3D Modeling with 3ds Max



## Postgraduate Certificate 3D Modeling with 3ds Max

- » 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/3d-modeling-3ds-max](http://www.techtitute.com/in/information-technology/postgraduate-certificate/3d-modeling-3ds-max)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 20*

06

Certificate

---

*p. 28*

# 01

# Introduction

3D modeling has become more and more important in the modern technological society in which we live, from industrial production, 3D printing or the execution of plans and models. This educational program has been designed to introduce the user to 3D Modeling with 3ds Max, one of the leading software in the field of three-dimensional modeling. Within 3D design, the texturing process is one of the most fundamental, as it gives the modeled object, figure or environment a more or less realistic finish. This process is based on giving a sensation of texture as much as possible through the application of layers. This online training is designed so that students can combine their other professional or personal projects with the updating of their knowledge.





“

*Within 3D design, the texturing process is fundamental. Learn how to create textures and achieve successful finishes with the state-of-the-art 3ds Max software"*

This Postgraduate Certificate in 3D Modeling with 3ds Max, developed by TECH Technological University, has been designed for the student to know in depth the functionality of the 3ds Max program. Therefore, this training goes deeper into the program interface and its controls, as well as studying the geometry to achieve the shape the designer desires in the fastest and most efficient way.

The educational plan also emphasizes the effects of modifiers and how to combine them to achieve the desired effect. A specific section is dedicated to the understanding of Boolean operations and how to use them for the benefit of modeling, as well as to develop a skill that will be especially useful: using 2D elements to combine them with other 3D elements to create shapes more efficiently.

A complete and programmed Postgraduate Certificate for students to learn how to use this leading program in three-dimensional design, with a completely online methodology to facilitate the reconciliation of other projects with educational recycling. The material will be available for consultation on the virtual platform, with the pedagogical resources and all the multimedia material available for students to consult whenever they need it.

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

- ◆ The development of case studies presented by experts in 3D Modeling with 3ds Max
- ◆ The graphic, schematic and eminently practical contents with which it is conceived provide practical information on those 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



*The leading 3ds Max modeling program will have no secrets for you thanks to this online training"*



“

*In a completely online format and with all the material available for consultation on the virtual platform: "train as a 3D modeler with 3ds Max"*

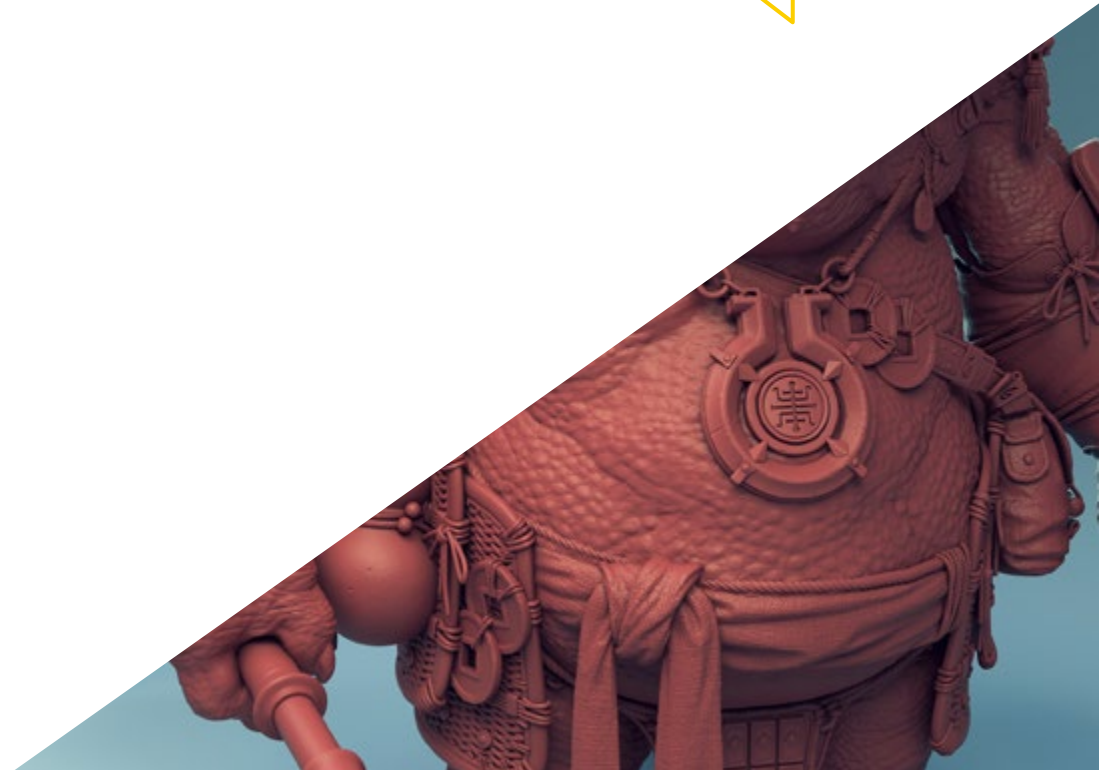
The program's teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

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 during the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

*Learn more about the program interface and its controls, and study the geometry to get the shape you want for your modeling.*

*Specialize your professional career as a designer and delve into 3D modeling in textures through this Postgraduate Certificate.*



# 02

# Objectives

The main purpose of this training is to introduce the user to three-dimensional modeling with this leading 3D design program, as well as to develop the necessary knowledge and skills to work professionally in this field. The curriculum is aimed at mastering and managing the functionalities and interface of the program and its controls. Students will learn to use geometry and topology to their advantage, to apply it to any project or creative process.





“

*Apply yourself as an expert in three-dimensional design with 3ds Max”*



## General Objectives

---

- ◆ Know in depth all the steps to create a professional 3D modeling
- ◆ Know and understand in detail how textures work and how they influence modeling
- ◆ Master several programs focused on modeling, texturing and real time, used today 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 functionality of the 3ds Max program
- ◆ Know in depth the program interface and its controls
- ◆ Transform the geometry to get the shape we want in the fastest and most efficient way
- ◆ Learn all the effects of the modifiers and learn how to combine them for greater effect
- ◆ Understand Boolean operations and know how to use them to our advantage
- ◆ Use 2D elements to combine them with our 3D to create shapes more efficiently

“

*A study plan designed to make you an expert in three-dimensional modeling with 3ds Max in 6 weeks”*

# 03

# Course Management

The management team and faculty of this program have designed together a perfect study plan for the user to be up to date in the theoretical and practical dimension of the sector. These teachings are complemented by the professional experience of these internationally renowned experts, who are perfectly qualified to teach the contents of this Postgraduate Certificate. Thus, through the content they will present and the diverse didactic materials they have developed, the student will receive the most current and requested knowledge of this industry.



“

*It has the support of the best teaching team, made up of true professionals in the three-dimensional modeling sector"*

## Management



### Ms. Sanches Lalaguna, Ana

- 3D Designer at Lalaguna Studio
- 3D Generalist at NeuroDigital Technologies
- Freelance video game figure modeler
- 3D Artist and Narrative Responsible in the videogame "A Rising Bond" (InBreak Studios)
- Master's Degree in Videogame Art and Design (U-tad)
- Diploma in 2D and 3D Animation Filmmaking (ESDIP)
- Winner of the Best Narrative award and nominated for Best Game and Best Art at the PlayStation Awards



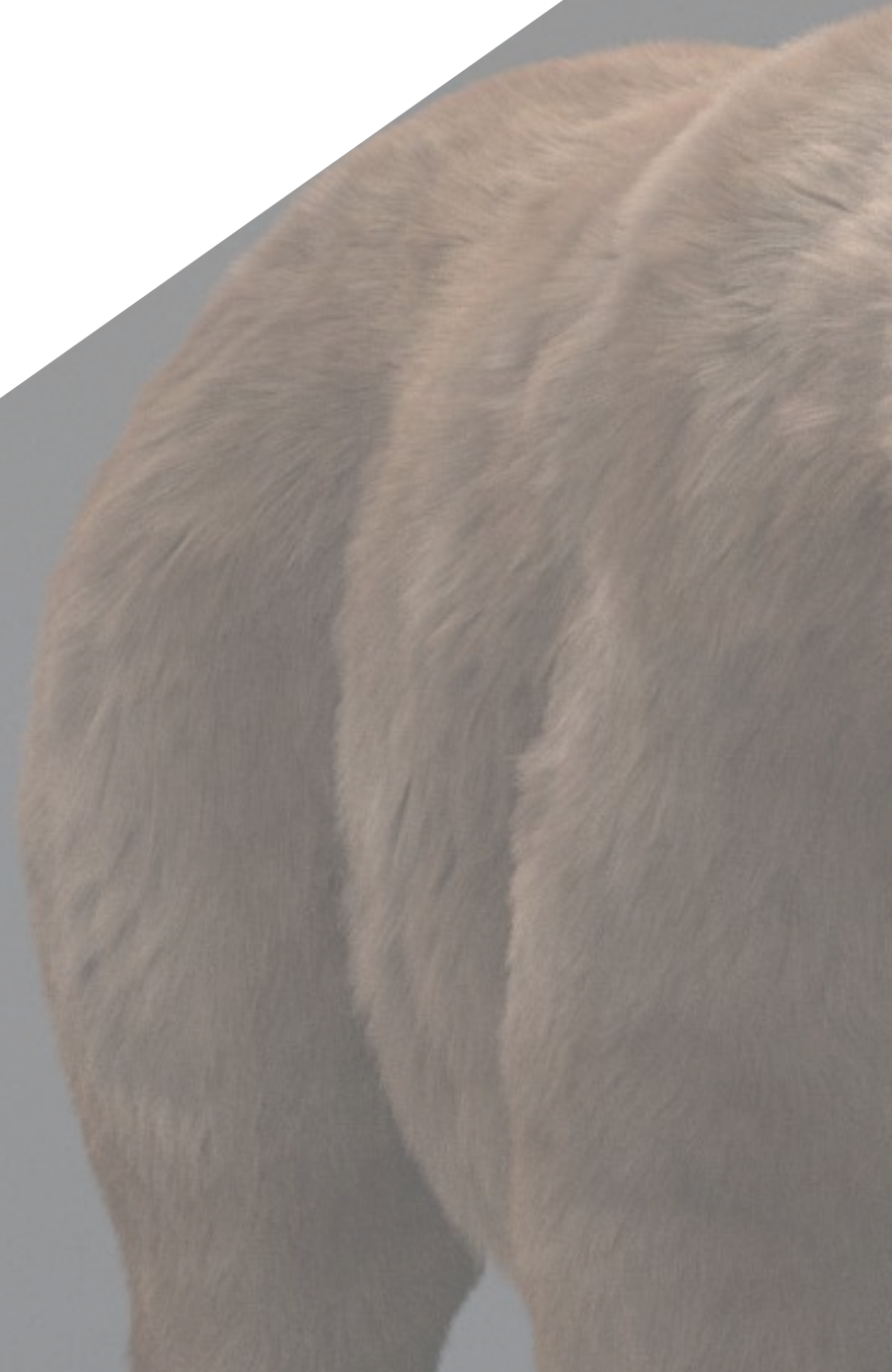




# 04

## Structure and Content

The content of this Postgraduate Certificate is designed so that it can be delivered in only 6 weeks. In small subsections, so that the knowledge is acquired progressively, the students will learn the most basic and necessary concepts to the most advanced configurations and utilities, and will take to safe ground the notions in three-dimensional modeling with 3ds Max. The Postgraduate Certificate in 3D Modeling with 3ds Max is designed for the acquisition of knowledge necessary to be a 3D modeler and to be able to continue deepening it and, thus, to be able to face the three-dimensional modeling with this cutting-edge tool.





*Take your 3D modeling knowledge to safe ground with this fully online qualification"*

## Module 1. 3D Modeling with 3ds Max

- 1.1. 3D Modeling with 3ds Max
  - 1.1.1. Orbit, Viewers and Views
  - 1.1.2. Geometry Display Modes
  - 1.1.3. Steering Wheels
- 1.2. Transformations and Geometry
  - 1.2.1. Interactive and Parametric Transformations
  - 1.2.2. Standard and Extended Primitives
  - 1.2.3. Scaling Transformation
  - 1.2.4. Select and Place/Select and Rotate
  - 1.2.5. Align and Symmetry
- 1.3. Main Operations
  - 1.3.1. Duplicate, Interactive Selection and Selection Groups and Elements
  - 1.3.2. Layers, Grid, Snap and Pivot Point
  - 1.3.3. Links, Coordinate Systems, Actions, Views and Isolate Geometry
- 1.4. Parametric Modifiers
  - 1.4.1. Bend, Taper, Skew and Twist
  - 1.4.2. Stretch and Squeeze
  - 1.4.3. Ripple, Wave and Noise
  - 1.4.4. Spherify, Lattice and Mirror
  - 1.4.5. Push and Relax
  - 1.4.6. Slice, Shell and Cap Holes
- 1.5. Free Deformation Modifiers
  - 1.5.1. FFD Modifiers
  - 1.5.2. FFD Cyl
  - 1.5.3. FFD Box
- 1.6. Composition Objects
  - 1.6.1. Boolean Operations Boolean and ProBoolean
  - 1.6.2. Objects Dispersion Scatter
  - 1.6.3. Morphism Morph
- 1.7. 2D Shapes Splines
  - 1.7.1. Splines and its Options
  - 1.7.2. The Line and Vertex Types
  - 1.7.3. Vertex, Segment and Splines Subobjects
- 1.8. 2D Shapes Advanced Splines
  - 1.8.1. Editable Splines and use of Grid and Snap to Create 2D Shapes
  - 1.8.2. Parametric Modifiers, FFD and Booleans with Splines
  - 1.8.3. Extended Splines and Section
- 1.9. Splines Modifiers
  - 1.9.1. Extrude
  - 1.9.2. Bevel
  - 1.9.3. Sweep
  - 1.9.4. Lathe
- 1.10. Composition Objects Splines
  - 1.10.1. Loft
  - 1.10.2. Terrain
  - 1.10.3. Shape Merge



*Enroll now: learn to model three-dimensionally with 3ds Max thanks to this direct and online course offered by TECH"*





# 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"*

## 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 course, students 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

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.



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.



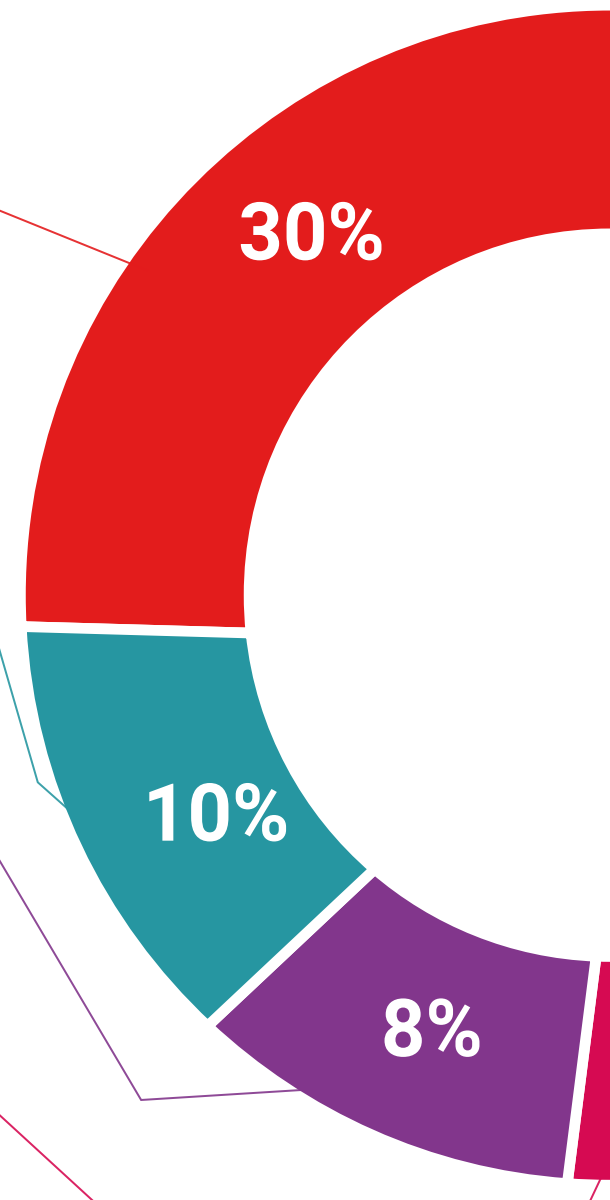
### Practising Skills and Abilities

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.





#### 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

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.





# 06 Certificate

The Postgraduate Certificate in 3D Modeling with 3ds Max guarantees, in addition to the most rigorous and up-to-date training, access to a certificate issued by TECH Technological University.



“

*Successfully complete this training program and receive your university certificate without travel or laborious paperwork”*



This **Postgraduate Certificate in 3D Modeling with 3ds Max** 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 through the Postgraduate Certificate and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in 3D Modeling with 3ds Max**

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.

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

**tech** technological  
university

## Postgraduate Certificate 3D Modeling with 3ds Max

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

# Postgraduate Certificate 3D Modeling with 3ds Max

