



Postgraduate Certificate Creation of Organic Landscapes and Environments through Digital Sculpture

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/in/design/postgraduate-certificate/creation-organic-landscapes-environments-digital-sculpture

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tech 06 | Introduction

To be able be use creativity and produce the most amazing hyper-realism is a task for the brave in today's technological world. There are those who will take the risk to innovate and demonstrate that, with technique and knowledge, it is always possible to obtain the best results. Those who wish to stand out for their skills can count on this Postgraduate Certificate in Creation of Landscapes and Organic Environments through Digital Sculpture. A course where you will find all the theoretical and practical content chosen by experts for your benefit.

A program that will allow the student to master *Low Poly* elements and integrate them in virtual reality spaces or in *video games* and transfer them to High Poly systems through modeling in *ZBrush*, all in only 6 weeks. In addition to fractal systems such as *SpeedTree* and powerful organic terrain generation tools. With *Heightmap* lifts in *Realtime* like *Terrains* in Unity or Unreal, and even realistic bodies of water and dynamics like wind.

Students will use fast rigging techniques with *motion* capture and create motion spaces in which their creations will be tested to develop future interactive projects. Finally, during the program, the projects will be shot with film cameras for a possible *Showreel*. This way, they will be creating an executable project to pass on to customers who don't have the development software. They will also be able to adapt models and spaces to fit virtual reality visualization systems.

All this is possible thanks to the most innovative methodology employed by TECH Technological University. The best online learning system, based on *Relearning*. Combining various content formats and led by experts. Available on devices with an internet connection, with the option to download content for consultation at any time. This provides professionals with a highly convenient way to continue their training.

This Postgraduate Certificate in Creation of Organic Landscapes and Environments through Digital Sculpture includes the most complete and up-to-date educational 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 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 the online learning system, you will still have time to create and implement new knowledge into your current projects"



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.

Land development is one of the most interesting fields of specialization. Expand your possibilities in the professional field.

Master powerful tools to generate realistic Heightmap dynamics in Realtime. Like Unity terrains or those in Unreal.







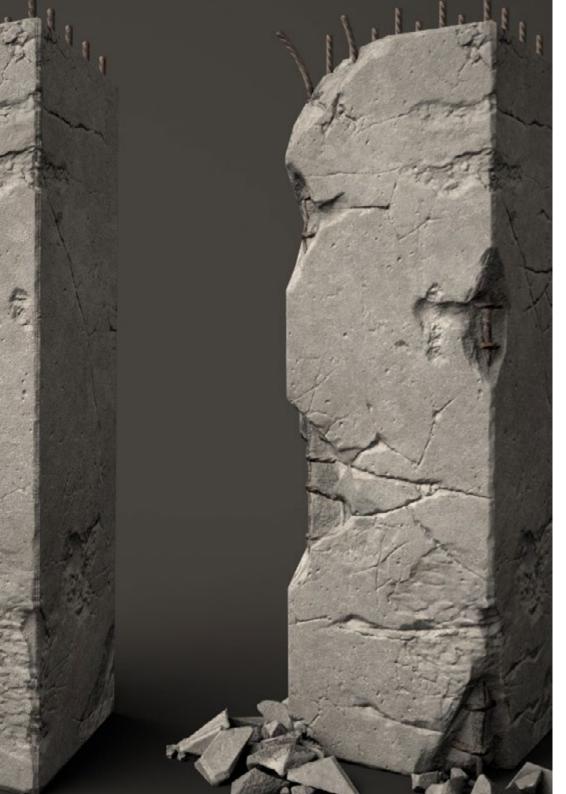
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General Objectives

- Apply accurate modeling, texturing, lighting and rendering processes
- Develop spaces using the organic model full of creativity and hyperrealism
- Understand the importance of having an adequate topology at all levels of development and production
- Understand the current demands of the movie and video game industries in order to offer best results







Specific Objectives

- Know the different techniques of organic modeling and fractal systems for generating the elements of nature and terrain, as well as the implementation of our own models and 3D scans
- In-depth study of the vegetation creation system and how to control it professionally in *Unity* and *Unreal Engine*
- Create scenes with immersive VR experiences



With this qualification, you will be able to use organic modeling in your digital works as an expert and create spaces full of creativity and hyperrealism"





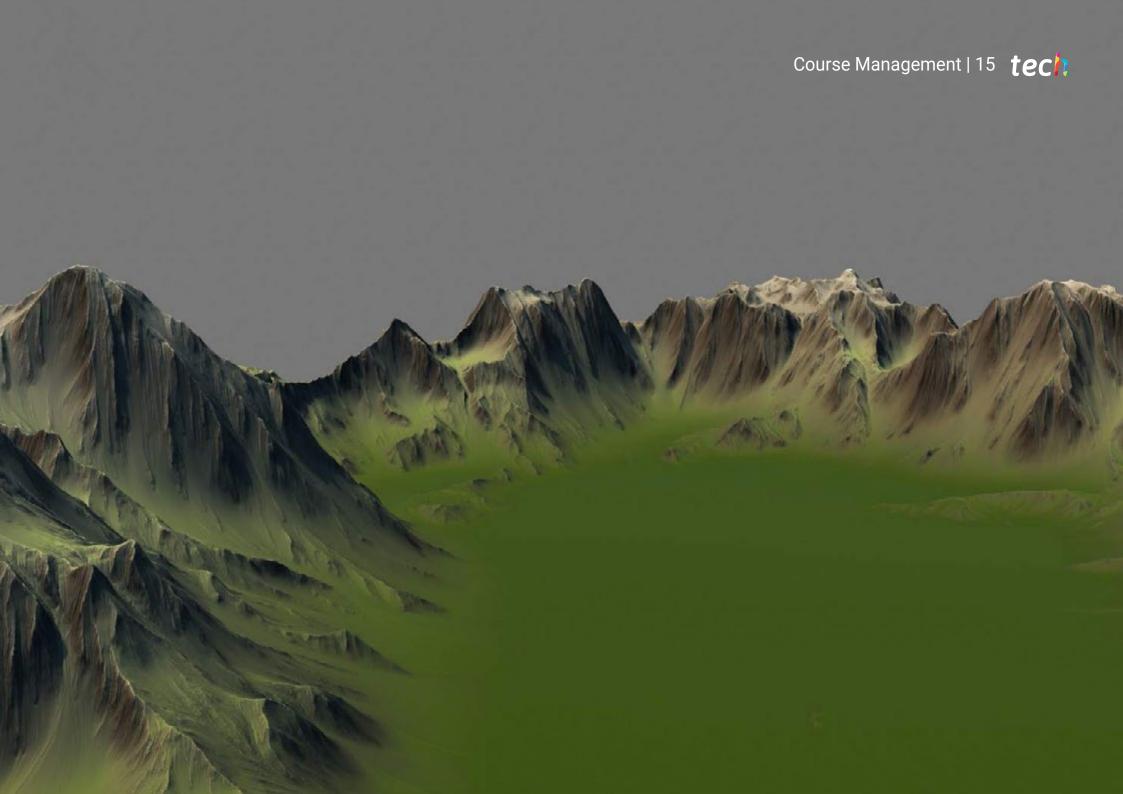
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Management



Mr. Sequeros Rodríguez, Salvador

- Freelance 2D/3D modeler and generalist
- Concept Art and 3D Models for Slicecore. Chicago
- Videomapping and modeling, Rodrigo Tamariz. Valladolic
- 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 the falleros 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)



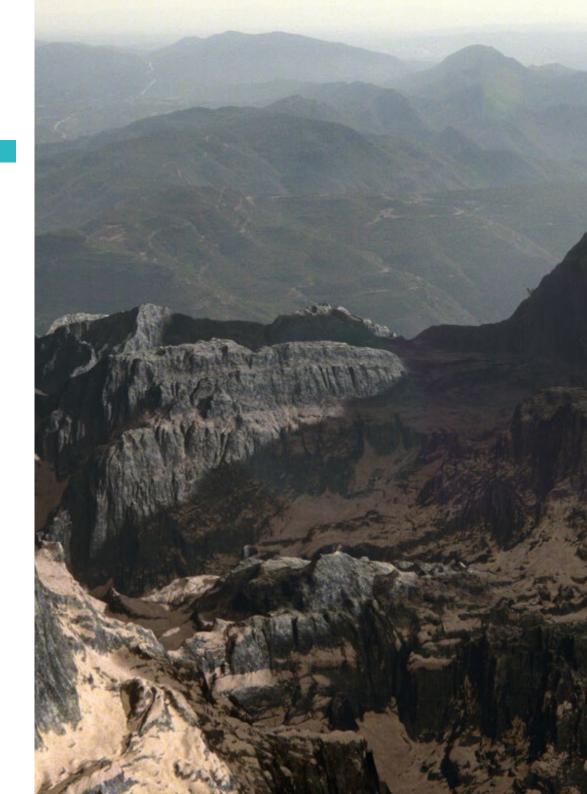


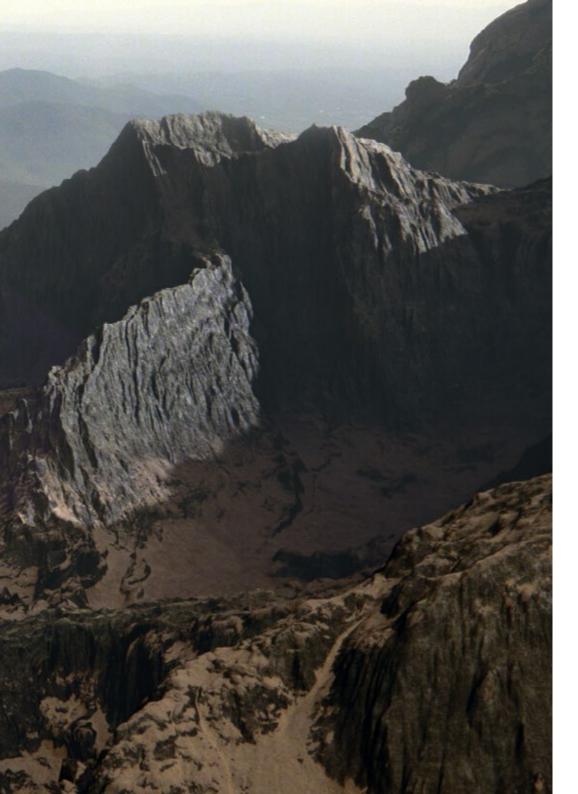


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Module 1. Creation of Organic Terrains and Environments

- 1.1. Organic Modeling in Nature
 - 1.1.1. Brush Adaptations
 - 1.1.2. Creation of Rocks and Cliffs
 - 1.1.3. Integration with 3D Substance Painter
- 1.2. Terrain
 - 1.2.1. Terrain Displacement Maps
 - 1.2.2. Creation of Rocks and Cliffs
 - 1.2.3. Scanning Software Libraries
- 1.3. Vegetation
 - 1.3.1. SpeedTree
 - 1.3.2. Low Poly Vegetation
 - 1.3.3. Fractals
- 1.4. Unity Terrain
 - 1.4.1. Organic Model of Terrain
 - 1.4.2. Terrain Painting
 - 1.4.3. Creation of Vegetation
- 1.5. Unreal Terrain
 - 1.5.1. Heightmap
 - 1.5.2. Texturing
 - 1.5.3. Unreal's Foliage System
- 1.6. Physics and Realism
 - 1.6.1. Physical
 - 1.6.2. Wind
 - 1.6.3. Fluids
- 1.7. Virtual Walks
 - 1.7.1. Virtual Cameras
 - 1.7.2. Third Person
 - 1.7.3. First Person FPS





Structure and Content | 19 tech

- Cinematography
 - 1.8.1. Cinemachine
 - 1.8.2. Sequencer
 - 1.8.3. Recording and Executables
- Visualization of the Model in Virtual Reality
 - 1.9.1. Modeling and Texturing Tips
 - Exploitation of the Interaxial Space
 - 1.9.3. Project Preparation
- 1.10. VR Scene Creation
 - 1.10.1. Location of the Cameras
 - 1.10.2. Land and Infoarchitecture
 - 1.10.3. Parameters of Use



Join the community of professionals who see professionals who see online training as the real key to success"





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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

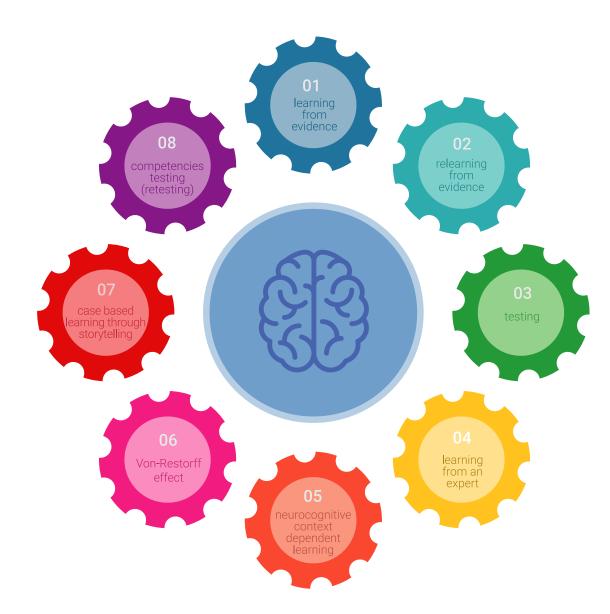
TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

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.



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. 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.



Methodology | 27 tech



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

Case Studies

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.

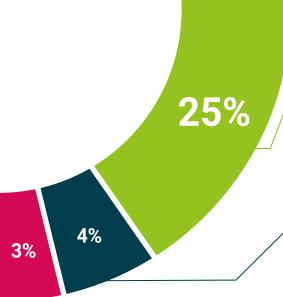


This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

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.





20%





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This Postgraduate Certificate in Creation of Organic Landscapes and Environments through Digital Sculpture in cludes 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 Creation of Organic Landscapes and Environments through Digital Sculpture

Official No of Hours: 150 h.



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

POSTGRADUATE CERTIFICATE

in

Creation of Organic Landscapes and Environments through Digital Sculpture

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

s qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each countries.

ue TECH Code: AFWORD23S techtitute

^{**}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 futors
guarantee accreditation feaching
institutions fechnology technological
university

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