

# Postgraduate Certificate Modeling Techniques and Application in Rhino





## Postgraduate Certificate Modeling Techniques and Application in Rhino

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

Website: [www.techtute.com/us/information-technology/postgraduate-certificate/modeling-techniques-application-rhino](http://www.techtute.com/us/information-technology/postgraduate-certificate/modeling-techniques-application-rhino)

# 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

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*p. 28*

# 01

# Introduction

Three-dimensional modeling in Rhinoceros software is increasingly requested by professionals from different sectors, therefore, to know in depth the different modeling techniques and their application in Rhino to apply them in the 3D modeling industry, is to respond to the demand of an increasingly specialized and widespread labor market. This educational program has been developed to meet this demand, providing advanced knowledge in the use of this tool. In addition, it consists of a completely online program, which allows the acquisition of knowledge and its recycling without the need to sacrifice other personal and professional projects.







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*Develop modeling techniques and their application in Rhino and respond to the labor demand in this field with this online educational program"*

Rhinoceros software has established itself as one of the most widely used software in the field of three-dimensional modeling. This is due to the large number of utilities it offers, as well as the versatility of its productions. With it you can create, modify, and render complex three-dimensional modeling. Therefore, this Postgraduate Certificate devised by TECH Technological University aims to enable students who take it in advanced 3D Rhino modeling techniques for subsequent application in different fields such as: industrial production, 3D printing, plans and layouts or infoarchitecture.

The Postgraduate Certificate focuses on the development of techniques for the resolution of specific cases, the application of solutions to different types of requirements and knowledge of the main software tools. It also incorporates mechanical knowledge to modeling, works with analysis tools and develops strategies to face the models.

All of this through this fully online Postgraduate Certificate, which provides the students with the educational and multimedia material on the virtual platform for consultation. The teaching staff of this program is formed by real experts and professionals of the sector, who will not only transmit the theoretical and practical content, but will also encourage a professional attitude in the student.

This **Postgraduate Certificate in Modeling Techniques and Application in Rhino** contains the most complete and up-to-date educational program on the market.

The most important features include:

- ◆ The development of practical cases presented by experts in 3D Modeling in Rhino
- ◆ 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



*This fully online Postgraduate Certificate will offer you the development of skills in Modeling Techniques and Application in Rhino"*

“

*Specialize in the most advanced 3D modeling techniques and their application in Rhino in just 6 weeks”*

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

*Develop your critical and professional sense in new professional challenges thanks to the expert faculty that makes up this Postgraduate Certificate.*

*In online mode and with all the didactic material available on the virtual platform: there has never been a more convenient and practical way to learn.*



# 02 Objectives

This Postgraduate Certificate in Modeling Techniques and Application in Rhino has a clear intention: to provide the student with a progressive learning process, from the most basic aspects of the software, to efficiently model curves, surfaces, solids, meshes, among others. In other words, the proposed syllabus will lead the student to an in depth knowledge of the different modeling techniques and their application in Rhino in order to apply them in the 3D modeling industry, whatever the field of development.







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*The purpose of this Postgraduate Certificate is to provide the student with a progressive learning process, from the most basic to the most advanced software functions"*



## General Objectives

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- ◆ In depth knowledge of the different modeling techniques and their application in Rhino in order to apply them in the 3D modeling industry
- ◆ Delve into the theory of shape creation in order to develop shape masters
- ◆ Learn in detail the basics of 3D modeling in its different forms
- ◆ Generate designs for different industries and their application
- ◆ Be a technical expert and/or artist in 3D modeling in Rhino
- ◆ Know all the tools involved in the 3D modeling profession





## Specific Objectives

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- ◆ Develop techniques for solving specific cases
- ◆ Apply solutions to different types of requirements
- ◆ Know the main software tools
- ◆ Incorporate mechanical knowledge into the modeling process
- ◆ Work with analysis tools
- ◆ Develop strategies to approach a model



*In just 6 weeks you will be able to develop modeling techniques and their application in the new professional challenges you set yourself"*

# 03

# Course Management

Highly prestigious experts with a recognized professional trajectory are part of the management and teaching staff of this Postgraduate Certificate. All of them have dedicated a large part of their working lives to improving and investigating modeling techniques and their application in Rhino. This program is designed by them and designed so that students can complete this educational plan without difficulty. Always under a comprehensive perspective, the faculty of this Postgraduate Certificate offers content with theoretical and practical application, so that the user is able to apply the knowledge in the possible challenges and professional opportunities that arise.





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*You will follow this program with the help and support of an excellent teaching staff, made up of true professionals in three-dimensional modeling”*

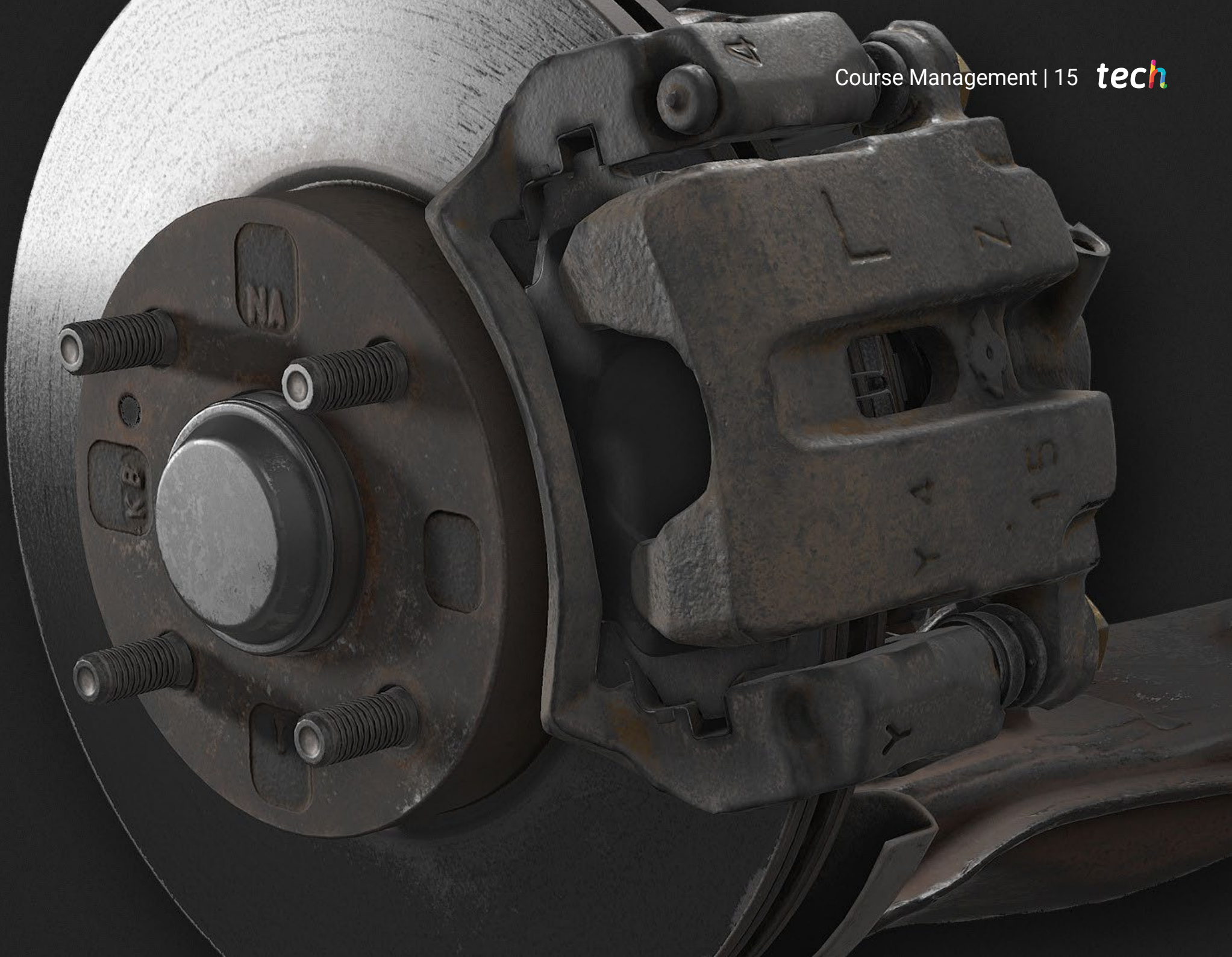


## Management



### Mr. Salvo Bustos, Gabriel Agustín

- ◆ 3D Artist at 3D VISUALIZATION SERVICE INC.
- ◆ 3D Production for Boston Whaler
- ◆ 3D Modeler at Shay Bonder Multimedia TV Production Company
- ◆ Audiovisual Producer at Digital Film
- ◆ Product Designer for Escencia de los Artesanos by Eliana M
- ◆ Industrial Designer Specializing in Products. National University of Cuyo
- ◆ Exhibitor at the Regional Visual Arts Salon Vendimia
- ◆ Digital Composition Seminar. National University of Cuyo
- ◆ National Congress of design and production. C.P.R.O.D.I



# 04

## Structure and Content

The content of this Postgraduate Certificate is perfectly structured and ordered according to a complete syllabus, which introduces the student to the most basic and introductory concepts of modeling techniques and their application in Rhino. From the first section, students will create, model and analyze different figures, shapes and objects in 3D. The intention is to perfect the techniques and show the different sectors for which they can apply the acquired knowledge.





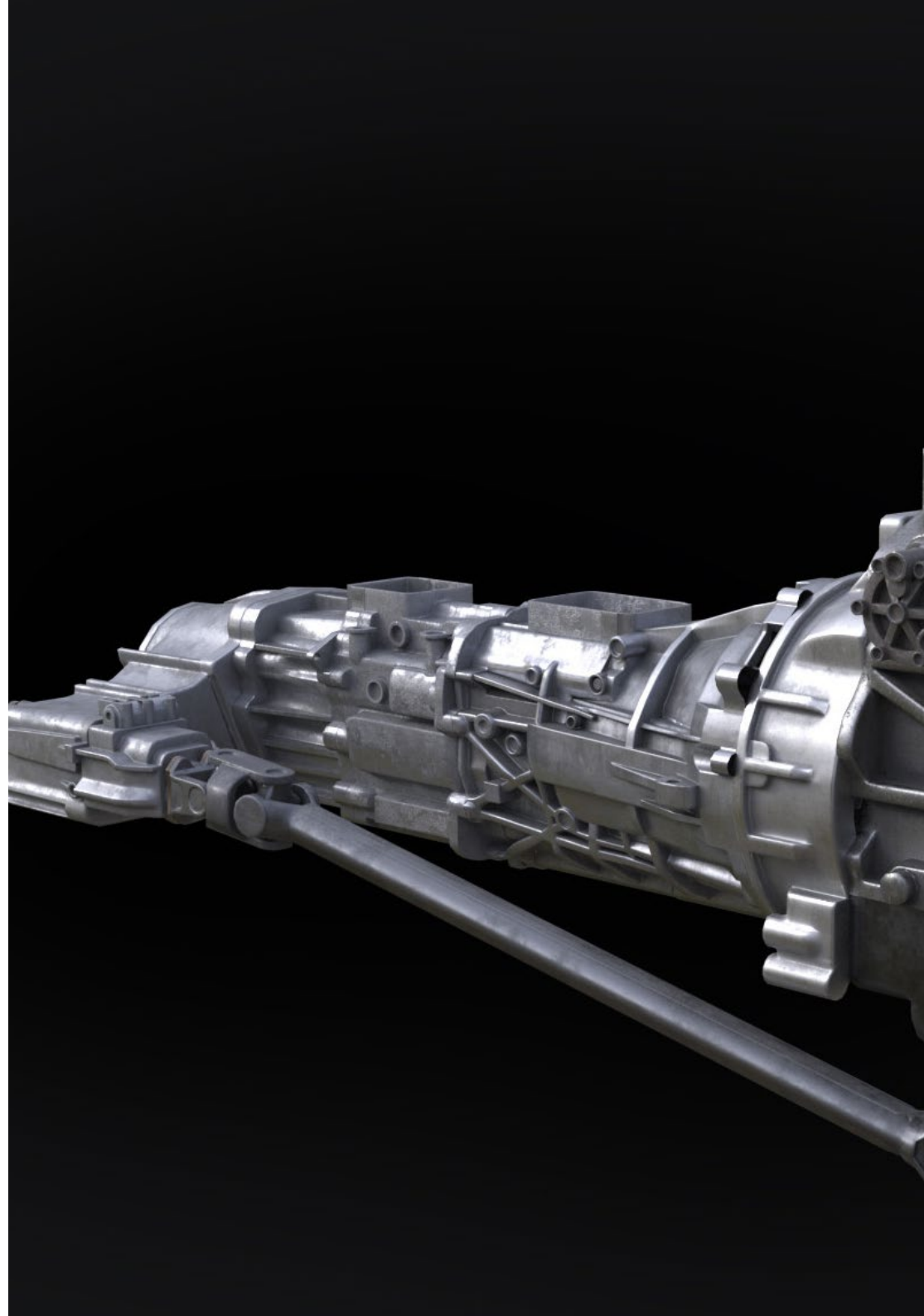
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*A comprehensive online syllabus,  
which adapts to the student's  
progress through the content”*

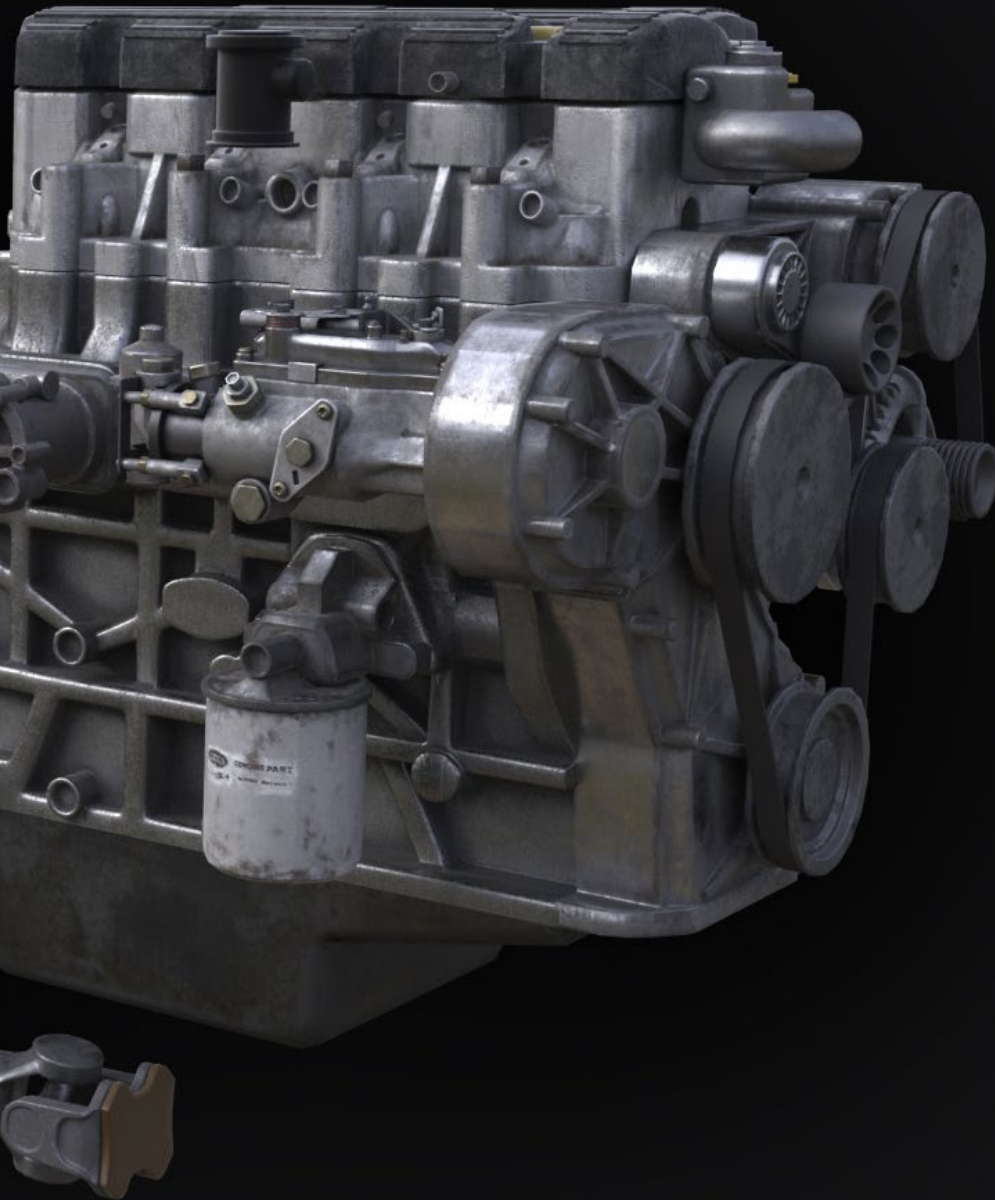


## Module 1. Modeling Techniques and their Application in Rhino

- 1.1. Techniques
  - 1.1.1. Support Intersection
  - 1.1.2. Creation of a Space Helmet
  - 1.1.3. Pipelines
- 1.2. Application I
  - 1.2.1. Creating a Car Tire
  - 1.2.2. Creating a Tire
  - 1.2.3. Modeling a Watch
- 1.3. Basic Techniques II
  - 1.3.1. Use of Isocurves and Edges for Modeling
  - 1.3.2. Making Apertures in the Geometry
  - 1.3.3. Working with Hinges
- 1.4. Application II
  - 1.4.1. Creation of a Turbine
  - 1.4.2. Creation of Air Inlets
  - 1.4.3. Tips for Imitating Edge Thickness
- 1.5. Data Science
  - 1.5.1. Tips for Using Mirror Symmetry
  - 1.5.2. Use of Fillets
  - 1.5.3. Use of Trims
- 1.6. Mechanical Applications
  - 1.6.1. Creating Gears
  - 1.6.2. Pulley Construction
  - 1.6.3. Construction of a Shock Absorber
- 1.7. File Import and Export
  - 1.7.1. Send Rhino Files
  - 1.7.2. Export Rhino Files
  - 1.7.3. Import to Rhino from Illustrator







- 1.8. Analysis Tools I
  - 1.8.1. Graphical Curvature Analysis Tool
  - 1.8.2. Curve Continuity Analysis
  - 1.8.3. Curve Analysis Problems and Solutions
- 1.9. Analysis Tools II
  - 1.9.1. Surface Directional Analysis Tool
  - 1.9.2. Environment Surface Mapping Analysis Tool
  - 1.9.3. Edge Display Analysis Tool
- 1.10. Strategies
  - 1.10.1. Construction Strategies
  - 1.10.2. Surface per Curve Grid
  - 1.10.3. Working with Blueprints



*Enroll now and distinguish your portfolio and resume in only 6 weeks thanks to 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.





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*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 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

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 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.

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 skills and abilities in each subject 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 Modeling Techniques and Application in Rhino 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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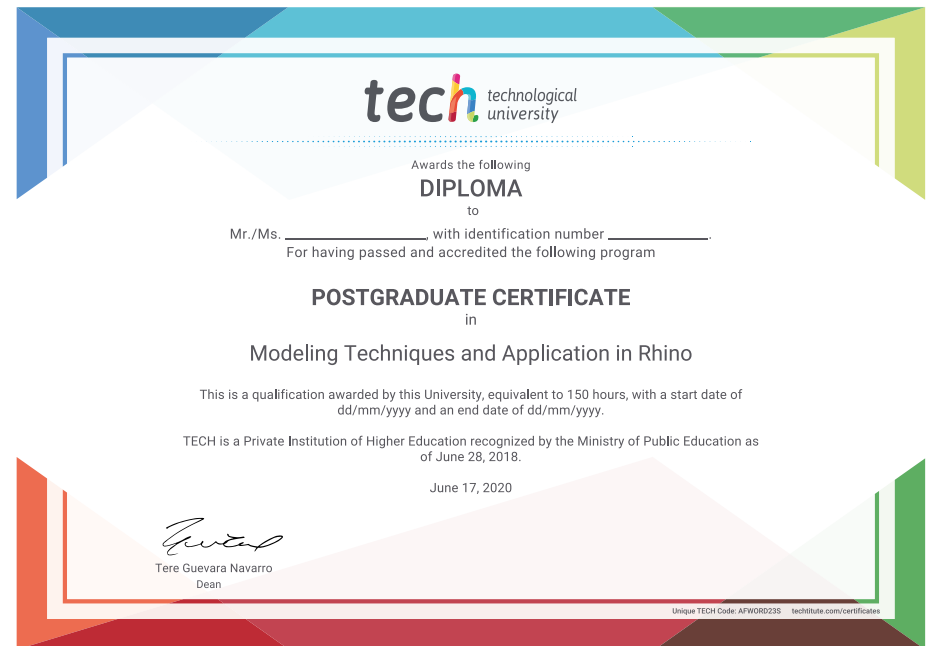
*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This **Postgraduate Certificate in Modeling Techniques and Application in Rhino** 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 Modeling Techniques and Application in Rhino**  
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 committ  
personalized service innovation  
knowledge present  
online tr  
development lang  
classroom

**tech** technological  
university

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