

# Postgraduate Certificate Sustainable Design





## Postgraduate Certificate Sustainable Design

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

Website: [www.techtute.com/us/design/postgraduate-certificate/sustainable-design](http://www.techtute.com/us/design/postgraduate-certificate/sustainable-design)

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# 01

# Introduction

Sustainability is a key issue in many of today's economic and professional sectors. In the field of design, its importance is growing steadily, as both manufacturers and consumers increasingly appreciate environmentally responsible production. Accordingly, with this program, the designer will be able to learn the basics of sustainability applied to the creation of products, so that they can learn in depth about issues such as eco-design. This will be done using the most advanced multimedia resources and through an online teaching methodology that will be completely adapted to your personal circumstances.







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*Apply the most outstanding principles of sustainability to your designs and start enjoying the best career opportunities in large industrial production companies"*

In recent years, the world has been radically transformed, thanks to growing social awareness of issues such as climate change and the environment. As such, users and customers worldwide are demanding that creators and companies ensure that their products meet basic sustainability criteria. For this reason, more and more companies are looking for designers oriented towards this field, which is why this professional profile is currently experiencing very high demand.

In response to this situation, TECH has developed this Postgraduate Certificate, which will allow students to deepen their knowledge of concepts such as the ecological footprint, eco-design and the product life cycle. Additionally, this program will provide them with the most advanced knowledge in terms of innovation applied to sustainability and the circular economy.

With these contents, presented with the most advanced multimedia resources, the students will be able to get up to date in one of the most relevant disciplines of design in the present and in the future. These materials will be accessible 24 hours a day, and are available in multiple formats: videos, theoretical and practical exercises, master classes, interactive summaries or case studies. All this, integrated in a 100% online methodology that will allow the professionals to study whenever and wherever they want, without having to adhere to schedules or travel to an academic center.

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

- ◆ The development of case studies presented by experts in Sustainable Design
- ◆ 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



*This program will allow you to work from concepts such as eco-efficiency and eco-design, which will make you a specialist in Sustainable Design"*

“

*In a creative field like design it is necessary to have the best learning resources, and in this Postgraduate Certificate you will find them: videos, activities, interactive summaries, etc.”*

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

*TECH's online methodology will allow you to study without interrupting your professional work, since it will be completely adapted to all your personal circumstances.*

*Mastering the circular economy will allow you to better understand current production needs, thereby improving your own creations.*



# 02

# Objectives

Given the current social situation, sustainability is an essential issue for any company in the production sector. For this reason, this program aims to provide professionals with the main keys to this field so that they can work on their designs knowing all the implications of their decisions in environmental matters. And to achieve this goal, this program has the best educational resources in the educational market and an online methodology with which you can study at your own pace, since it adjusts to your personal needs.







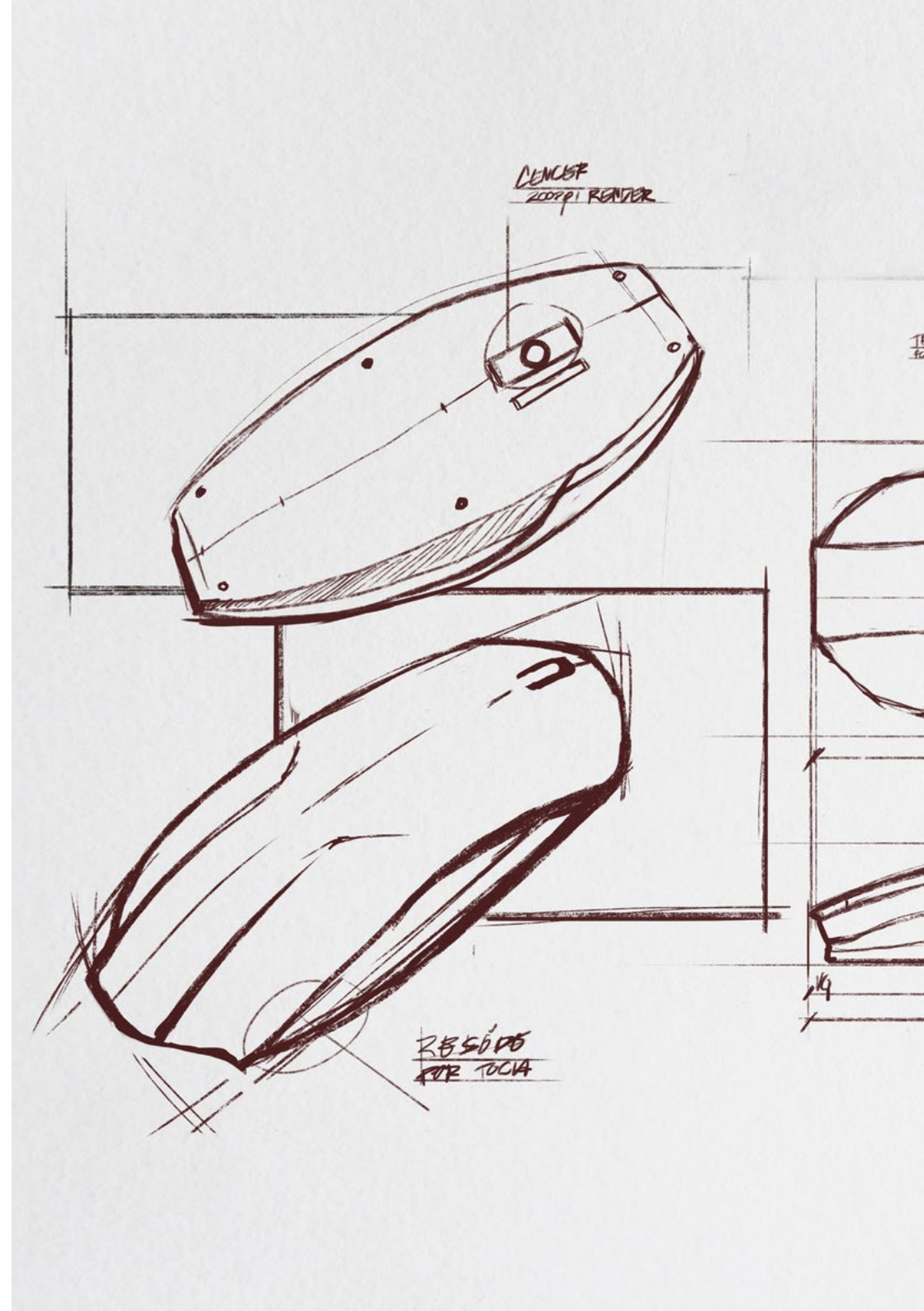
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*This program has been designed to respond to the current social and productive situation, and will provide you with all the necessary knowledge to design sustainable products"*



## General Objectives

- ◆ Know how to synthesize one's own interests, through observation and critical thinking, translating them into artistic creations
- ◆ Recognize the sustainability setting and environmental context.
- ◆ Integrate the fundamental principles of Sustainable Design into one's own work
- ◆ Understand the importance of sustainability in a globalized world





## Specific Objectives

- ◆ Know the main tools for environmental impact analysis
- ◆ Recognize the importance of sustainability in design
- ◆ Know the environmental regulations relevant to design
- ◆ Be able to develop a sustainable product design strategy

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*Sustainable Design specialists are currently in-demand, and, with this program, you will improve your job prospects immediately”*



# 03

## Structure and Content

This Postgraduate Certificate in Sustainable Design has been developed by internationally renowned experts in this creative field. As a result, it has been structured in 1 specialized module, through which the professional will be able to learn about the latest developments in sustainable production and ecological footprint, innovation oriented to sustainability, the main methodologies of eco-design and environmental regulations, among many other relevant issues.







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*You will not find a more complete syllabus to become a leading specialist in Sustainable Design"*

## Module 1. Sustainable Design

- 1.1. Environmental Status
  - 1.1.1. Environmental Context
  - 1.1.2. Environmental Perception
  - 1.1.3. Consumption and Consumerism
- 1.2. Sustainable Production
  - 1.2.1. Ecological Footprint
  - 1.2.2. Biocapacity
  - 1.2.3. Ecological Deficit
- 1.3. Sustainability and Innovation
  - 1.3.1. Production Processes
  - 1.3.2. Process Management
  - 1.3.3. Implementation of the Production
  - 1.3.4. Productivity Through Design
- 1.4. Introduction. Ecodesign
  - 1.4.1. Sustainable Development
  - 1.4.2. Industrial Ecology
  - 1.4.3. Eco-Efficiency
  - 1.4.4. Introduction to the Concept of Ecodesign
- 1.5. Ecodesign Methodologies
  - 1.5.1. Methodological Proposals for the Implementation of Ecodesign
  - 1.5.2. Project Preparation (Driving Forces, Legislation
  - 1.5.3. Environmental Aspects
- 1.6. Life Cycle Assessment (LCA)
  - 1.6.1. Functional Unit
  - 1.6.2. Inventory
  - 1.6.3. Impact Ratio
  - 1.6.4. Generation of Conclusions and Strategy



- 1.7. Improvement Ideas (Ecodesign Strategies)
  - 1.7.1. Reduce Impact
  - 1.7.2. Increase Functional Unit
  - 1.7.3. Positive Impact
- 1.8. Circular Economy
  - 1.8.1. Definition
  - 1.8.2. Evolution
  - 1.8.3. Success Stories
- 1.9. *Cradle to Cradle*
  - 1.9.1. Definition
  - 1.9.2. Evolution
  - 1.9.3. Success Stories
- 1.10. Environmental Regulations
  - 1.10.1. Why Do We Need a Regulation?
  - 1.10.2. Who Makes the Regulations?
  - 1.10.3. Environmental Framework of the European Union
  - 1.10.4. Regulations in the Development Process



*Get to know in depth, thanks to this specialized program, the environmental regulations and their implications in Sustainable Design"*



# 04

# 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.

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*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.





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.



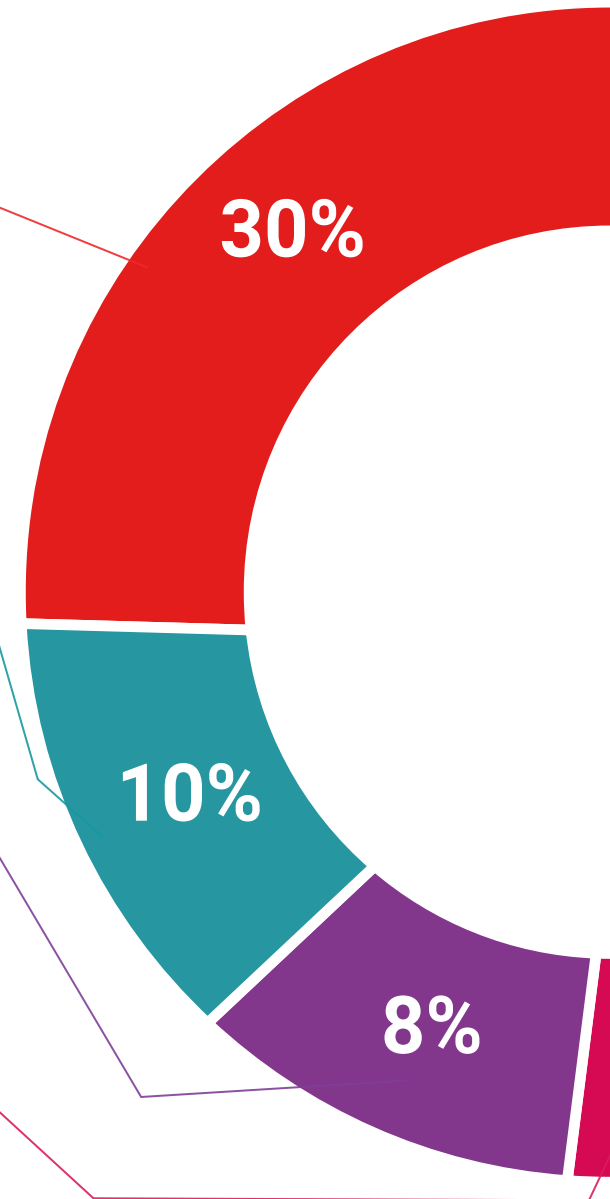
### Practising Skills and Abilities

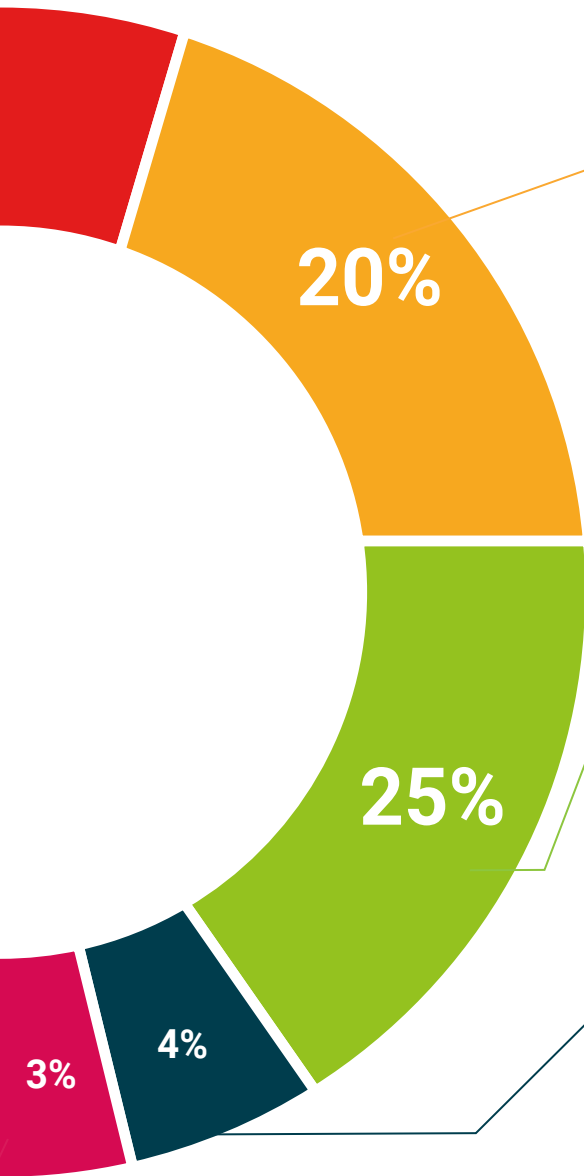
They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



### 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.





# 05 Certificate

The Postgraduate Certificate in Sustainable Design 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 Sustainable Design** 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 Sustainable Design**

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

virtual classroom

**tech** technological  
university

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