

Postgraduate Diploma  
Theory of Science,  
Language and Bioethics





## Postgraduate Diploma Theory of Science, Language and Bioethics

- » Modality: **online**
- » Duration: **6 months**
- » Certificate: **TECH Global University**
- » Credits: **20 ECTS**
- » Schedule: **at your own pace**
- » Exams: **online**

Website: [www.techtute.com/us/humanities/postgraduate-diploma/postgraduate-diploma-theory-science-language-bioethics](http://www.techtute.com/us/humanities/postgraduate-diploma/postgraduate-diploma-theory-science-language-bioethics)

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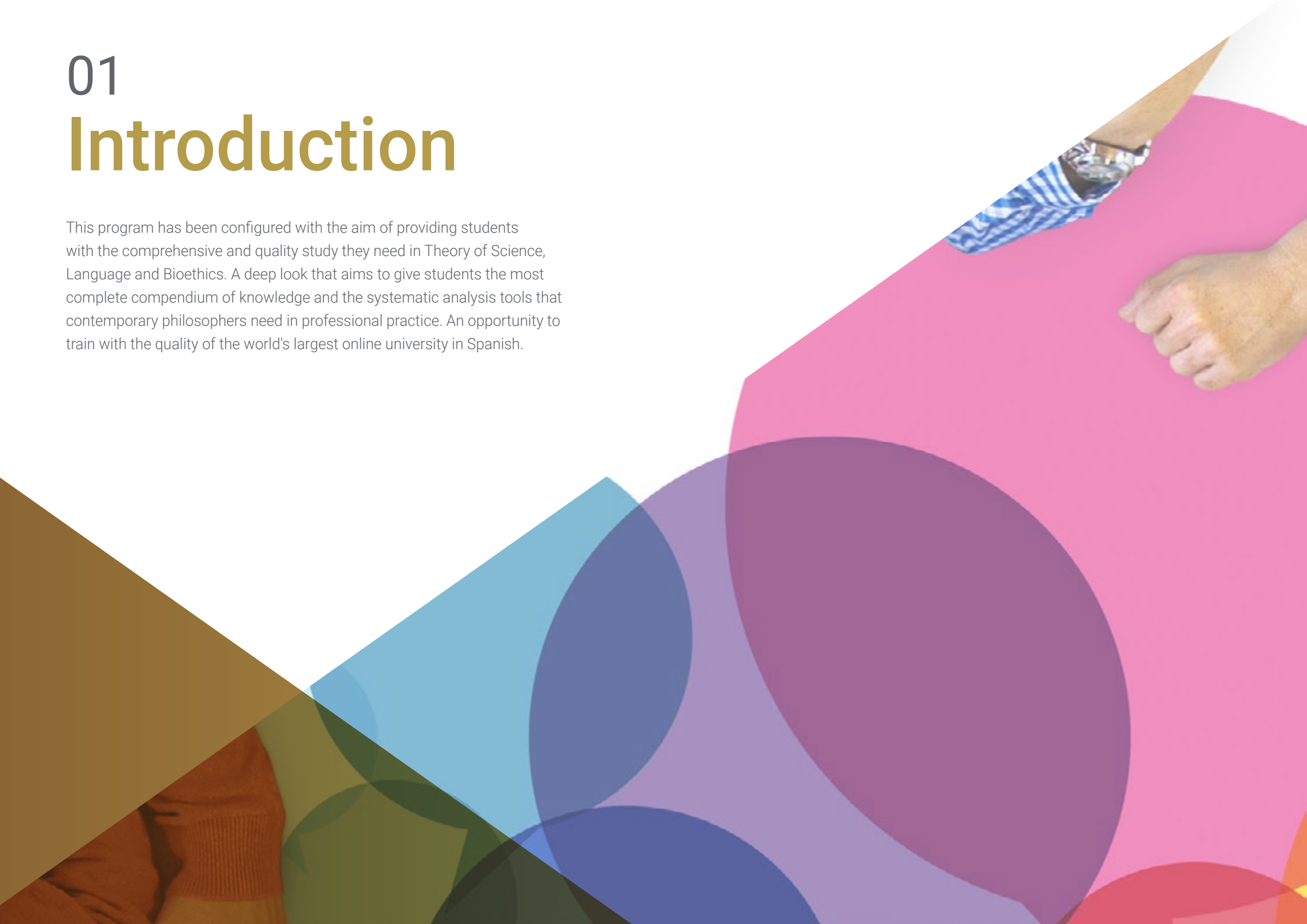
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# 01

# Introduction

This program has been configured with the aim of providing students with the comprehensive and quality study they need in Theory of Science, Language and Bioethics. A deep look that aims to give students the most complete compendium of knowledge and the systematic analysis tools that contemporary philosophers need in professional practice. An opportunity to train with the quality of the world's largest online university in Spanish.





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*The most up-to-date and  
sure way to access the best  
university specialization”*

Throughout this Postgraduate Diploma, students will learn the philosophical approaches to the theory of science, language and bioethics. Three areas of outstanding relevance for their ability to provide answers to many of the questions posed by philosophy regarding evolution and human development.

With a broad vision of each of these areas of knowledge, students will learn to systematically analyze, understand and disseminate this knowledge.

A complete compendium of knowledge and developments that will lead to the highest standards of professional training, with the competitiveness of an expert in this field of work.

This program will also teach students the most effective systems to study this subject.

If students want to improve themselves, achieve a positive change on a personal level, relate to the best and belong to the new generation of professionals capable of working anywhere in the world, this may be their path.

A Postgraduate Diploma that is fully compatible with other work, personal, teaching or study occupations. Its system and teaching approach will flexibly adjust to student needs from beginning to end throughout the course. Consequently, the results are much more efficient since the study will not become an unbearable burden, but rather, a stimulating and easy challenge to undertake and bring to fruition.

This **Postgraduate Diploma in Theory of Science, Language and Bioethics** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Practical cases to apply the theoretical content to real life situations
- ♦ The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ It contains practical exercises where the self-evaluation process can be carried out to improve learning
- ♦ Algorithm-based interactive learning system for decision-making in the situations that are presented to the student.
- ♦ Special emphasis on practical learning
- ♦ All of this will be complemented by 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 grow as a professional in philosophy and as a humanist, significantly expanding your capacity for analysis and philosophical understanding”*

“

*Study with the greatest University in the technological era and you will be part of an entity with a vocation of service, aware of the current social, global and individual in particular”*

*This Postgraduate Diploma is created to make you study in a simple, efficient and flexible way, with the maximum quality of a high-level academic program.*

*Study with the technical and human solvency of the largest Spanish-speaking, 100% online university in the world.*

TECH Global University offers the most innovative, creative and distinctive proposal, in a dynamic, talented and internationally recognized institution. With a space to exchange ideas, experience and reflections. Students will be able to share their learning experience, through forums and other collaborative tools, all 100% online.

TECH supports its students at all times thanks to an involved and committed teaching staff. The teaching team transmits their expertise in their professional performance, working from a real, lively and dynamic context. Above all, TECH explores students' critical side, their ability to question things, their problem-solving skills, as well as their interpersonal skills.





# 02

# Objectives

With this Postgraduate Diploma, students will be walked through the essential contents in the approach of this discipline, learning to undertake analyses, dissertations, presentations, debates or publications related to the subject matter, with the support of the most comprehensive knowledge. A Postgraduate Diploma where students will learn while enjoying the benefits of a training designed to optimize their work time to the maximum.







“

*Our goal is to provide you with a new learning experience that will lead you to achieve your professional goals with total assurance and confidence”*



## General Objectives

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- ♦ Acquire a rigorous philosophical method, shaped by the order in thought and the capacity for dialog, as well as putting it into practice
- ♦ Possess the adequate tools to study philosophical subjects
- ♦ Conduct fruitful scientific work
- ♦ Structure the various philosophical contents that will become evident in daily work environments
- ♦ Develop a mental structure and appropriate conceptual frameworks that structure philosophical criteria rooted in Christian tradition, including principles, methods and contents
- ♦ Shape students' specific identity as Christian thinkers



*The profile of the humanistic professional has reached the highest levels of professionalism. Activate your competence growth and don't get left behind"*





## Specific Objectives

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### Module 1. Philosophy of Science

- ♦ Understand the meaning of science in philosophy
- ♦ Differentiate between science and technique
- ♦ Explain the theoretical foundations and methodology of modern science as a specific form of knowledge production
- ♦ Explain the interrelation present in the theoretical foundations and methodology of modern sciences with technology
- ♦ Explain the influences of the theoretical foundations and methodology in modern sciences concerning the configuration of the world today

### Module 2. Philosophy of Language

- ♦ Analyze the phenomenon of language and its components
- ♦ Understand language as an object of study in philosophy
- ♦ Differentiate between sign, signified and signifier
- ♦ Systematically discuss the main epistemological problems on the subject of human language raised by research conducted in the 20th century

### Module 3. Seminar on Bioethical Problems

- ♦ Analyze the concept and generalities of bioethics as a discipline from an interdisciplinary approach
- ♦ Explain the main bioethical tenets and principles
- ♦ Know some deliberative methodologies to address bioethical problems
- ♦ Identify bioethical dilemmas in specific cases
- ♦ Reflect on the current and future relevance of bioethics in daily and professional life

### Module 4. Philosophical Synthesis

- ♦ Synthetically and articulately explain the main topics in metaphysics, philosophy of nature, philosophy of anthropology, philosophy of knowledge, ethics and philosophical theology, as well as a monographic philosophy research paper



03

# Structure and Content

This complete instructional development will lead students to acquire the most comprehensive knowledge available, bringing them closer to excellence in the humanistic field. The syllabus has been designed following the criteria of high academic impact this Postgraduate Diploma has, and the new teaching approaches that aim to maintain motivation and interest, which are essential to achieving the learning objectives. A high quality teaching model that sets TECH apart.





“

*A comprehensive teaching program that will take you through the development of this philosophical area, revealing its functioning and practical routines in a totally flexible way”*

## Module 1. Philosophy of Science

- 1.1. Characterization and Brief History of Science and Technology
  - 1.1.1. Toward a Definition of Science
  - 1.1.2. Toward a Definition of Technique
  - 1.1.3. Brief History of Science, Technique and Technology
- 1.2. The Nature of science
  - 1.2.1. Attitudes toward Science
  - 1.2.2. The Development of Philosophy of Science
  - 1.2.3. Main Current Trends in the Philosophy of Science
  - 1.2.4. Nature, Diversity and Complexity in Science
- 1.3. Scientific Methods
  - 1.3.1. Formal Methods in Science
  - 1.3.2. Pragmatism as Technological Criteria
  - 1.3.3. Discovery and Justification in Science
  - 1.3.4. Scientific Revolutions and Changes
- 1.4. Scientific and Technological Constructions
  - 1.4.1. Concepts, Statements and Scientific Theories
  - 1.4.2. Technology and World Transformation
- 1.5. The Value of Science and Technique
  - 1.5.1. Contemporary Discussions on Truth and Objectivity in the Sciences
  - 1.5.2. The Debate over Science and Values
  - 1.5.3. The End of Scientific Hegemony: Technology and Science



## Module 2. Philosophy of Language

- 2.1. Introduction
  - 2.1.1. Language as Human Fact
  - 2.1.2. The Philosophical Study of Language
- 2.2. The Linguistic Sign: Semiotics
  - 2.2.1. Sign Theory
  - 2.2.2. Signs, Concepts and Things
- 2.3. Meaning: Semantics
  - 2.3.1. The Problem of Meaning
  - 2.3.2. Meaning in Recent Philosophy of Language
  - 2.3.3. Language and Truth
- 2.4. The Signifying Act: Pragmatics
  - 2.4.1. Meaning and Language Use
  - 2.4.2. Language and Communication
- 2.5. The Theory of Interpretation: Hermeneutics
  - 2.5.1. Hermeneutic Philosophy and Language
  - 2.5.2. Understand and Interpret
- 2.6. The Theory of Religious Language
  - 2.6.1. The Meaning of Religious Discourse
  - 2.6.2. The Pragmatics of Religious Language

## Module 3. Seminar on Bioethical Problems

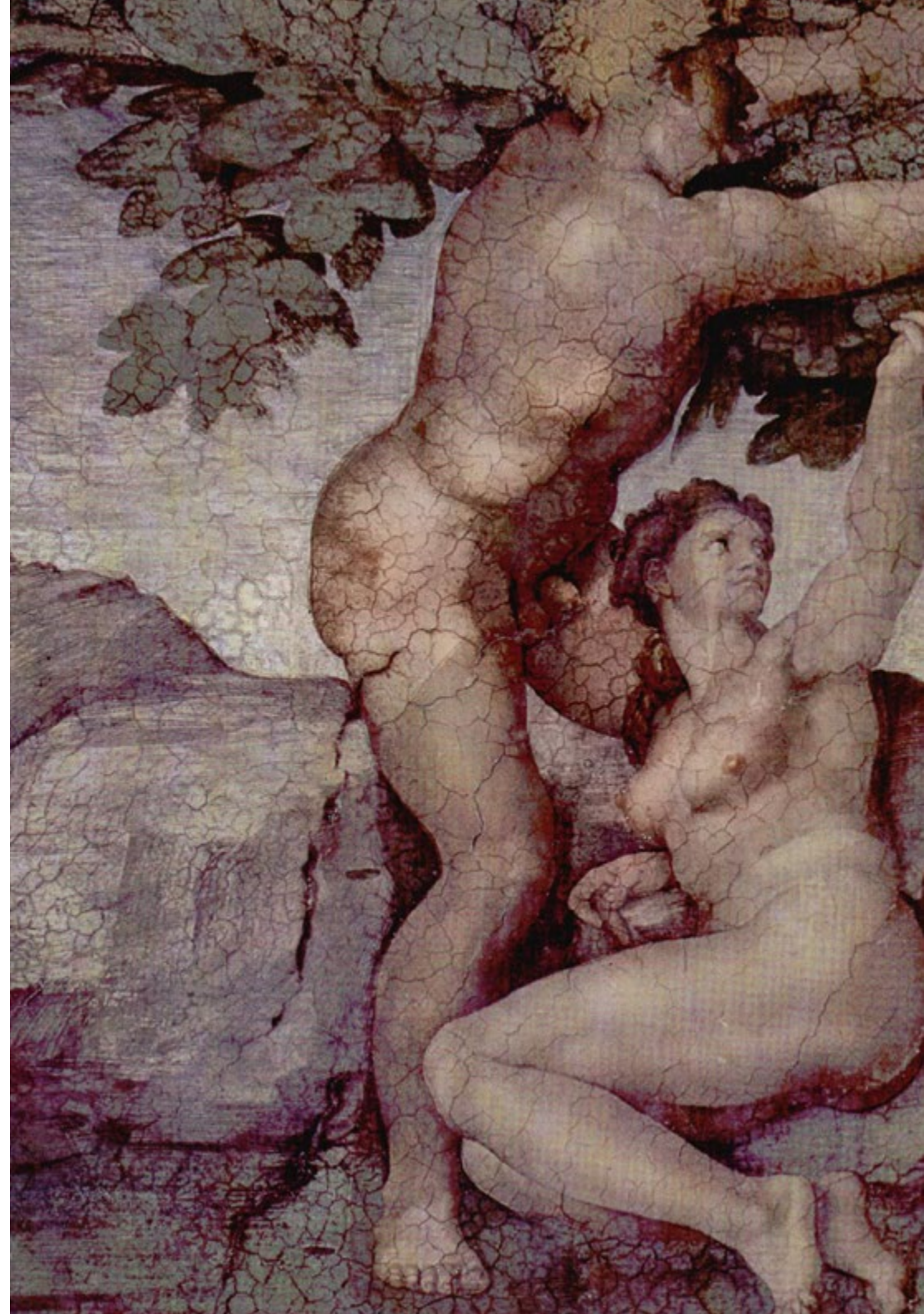
- 3.1. What Is Bioethics?
  - 3.1.1. Brief History
  - 3.1.2. The Concept of Bioethics
    - 3.1.2.1. Definition, Method and Approach in Bioethics
  - 3.1.3. Branches in Bioethics
    - 3.1.3.1. The Biomedical Sector
    - 3.1.3.2. The Biotechnological Sector
    - 3.1.3.3. The Extra-Human Sector

- 3.2. Main Current Trends in Bioethics and Relevant Bioethical Principles
  - 3.2.1. Current Trends in Bioethics
    - 3.2.1.1. Principlism
      - 3.2.1.1.1. *Prima Facie* Principles (Beuchamp and Childress)
      - 3.2.1.1.2. Diego García's Moderate Principlism
    - 3.2.1.2. Utilitarianism and Functionalism
    - 3.2.1.3. Contractualism
    - 3.2.1.4. Ethics of Minimum
    - 3.2.1.5. Liberal Trend
    - 3.2.1.6. Ethics of Care
    - 3.2.1.7. Narrative Ethics
    - 3.2.1.8. Bioethical Casuistry
    - 3.2.1.9. Personalism with an Ontological Foundation
  - 3.2.2. Relevant Moral Principles
    - 3.2.2.1. The Lesser Evil
    - 3.2.2.2. The Principle of Double Effect or Indirect Voluntariness
    - 3.2.2.3. The *Slippery Slope* Effect
    - 3.2.2.4. Technological Imperative and Environmental Ethics
- 3.3. Different Deliberative Methodologies to Address Bioethical Problems
  - 3.3.1. Case Analysis
  - 3.3.2. Analysis Methods for Decision-Making
    - 3.3.2.1. The Principlist Method
    - 3.3.2.2. Jonsen's Method of Case Analysis in Clinical Ethics
    - 3.3.2.3. Diego García's Decision-Making
    - 3.3.2.4. Thomasma's Decision-Making
    - 3.3.2.5. Galveston's Procedure

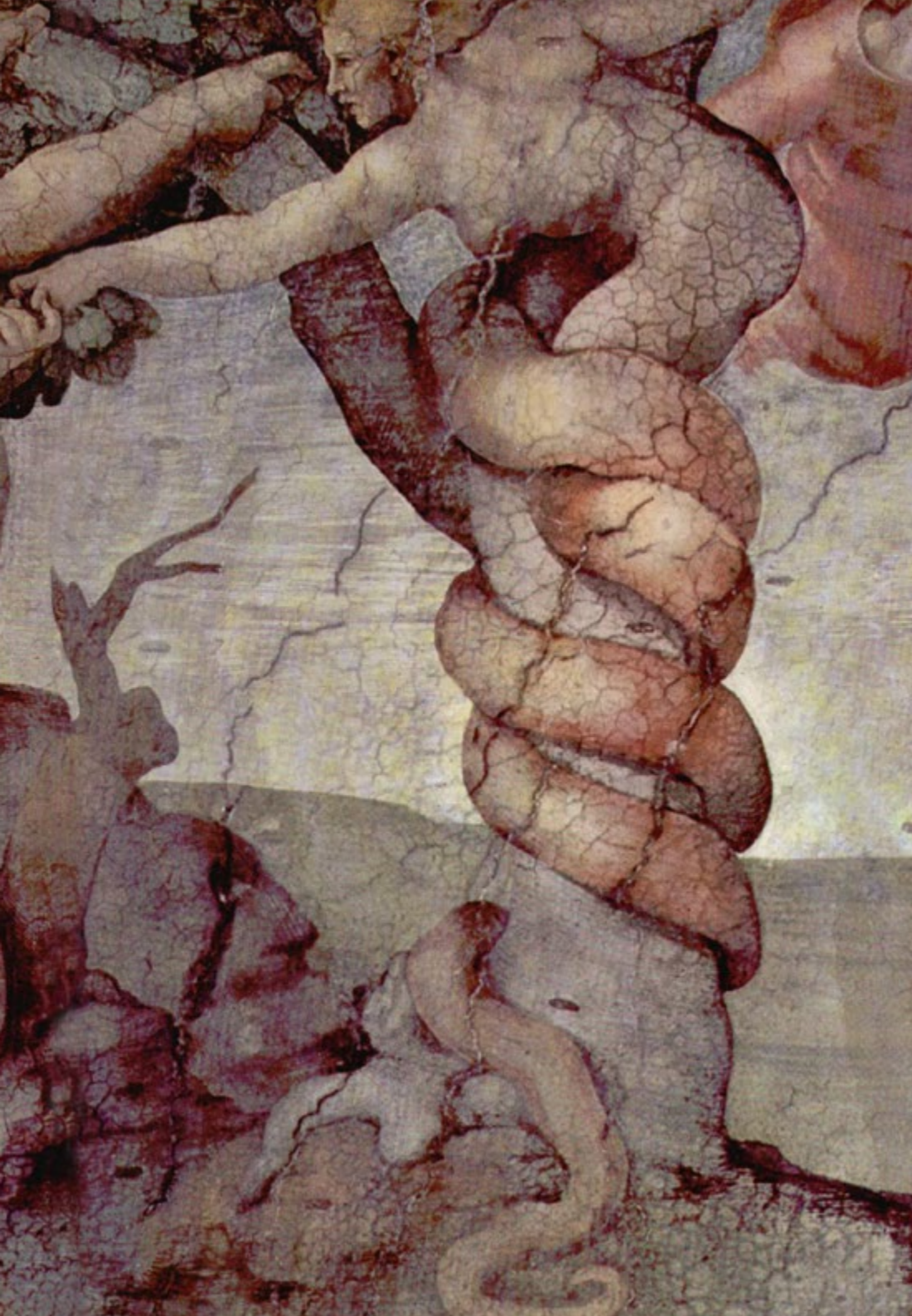


## Module 4. Philosophical Synthesis

- 4.1. Metaphysics
  - 4.1.1. The Nature of Metaphysics
  - 4.1.2. The Dynamism of Being
  - 4.1.3. Casual Dynamism
  - 4.1.4. The Statics of Being
  - 4.1.5. The Transcendental Properties of Being
  - 4.1.6. The Classification of Being
  - 4.1.7. The Participation and Analogy of Being
- 4.2. Philosophy of Nature
  - 4.2.1. The Nature of the Treaty
  - 4.2.2. The Intelligibility of Nature
  - 4.2.3. The Structure of Nature
  - 4.2.4. The Origin and Meaning of Nature
- 4.3. Philosophical Anthropology
  - 4.3.1. The Nature of Philosophical Anthropology
  - 4.3.2. Human Life
  - 4.3.3. The Phenomenology of Human Behavior
  - 4.3.4. Human Knowledge
  - 4.3.5. Human Desire
  - 4.3.6. Human Affectivity
  - 4.3.7. Human Unity and Dualism
  - 4.3.8. Humans as Personal Beings
  - 4.3.9. Dimensions of the Personal Being
  - 4.3.10. Death and Human Transcendence
- 4.4. Philosophy of Knowledge
  - 4.4.1. The Nature of Philosophy of Knowledge
  - 4.4.2. Fundamental Perspectives in Epistemology
  - 4.4.3. Knowledge in General
  - 4.4.4. Perceptual Knowledge
  - 4.4.5. Intellectual Knowledge
  - 4.4.6. Functions, Acts and Areas of Intellectual Knowledge
  - 4.4.7. The Truth of Knowledge and Its Discernment







- 4.5. Ethics
  - 4.5.1. The Nature of Ethics
  - 4.5.2. Human Goodness
  - 4.5.3. The Moral Subject
  - 4.5.4. Moral Law
  - 4.5.5. Moral Conscience
  - 4.5.6. Friendship Communities
  - 4.5.7. Matters in Bioethics
  - 4.5.8. Human Work
  - 4.5.9. Political Society
- 4.6. Philosophical Theology
  - 4.6.1. The Nature of Philosophical Theology
  - 4.6.2. God as a Problem
  - 4.6.3. The Existence of God
  - 4.6.4. The Essence of God
  - 4.6.5. God and the World
  - 4.6.6. God and Humans
- 4.7. Synthetic Vision
  - 4.7.1. Thematic and Argumentative Linking of Treaties
  - 4.7.2. Toward a Global Vision and Harmonic Reality



*A fully up-to-date program, with the most relevant and essential aspects organized in a dynamic and structured way”*

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.





“

*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.*



### 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 Humanities 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 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.



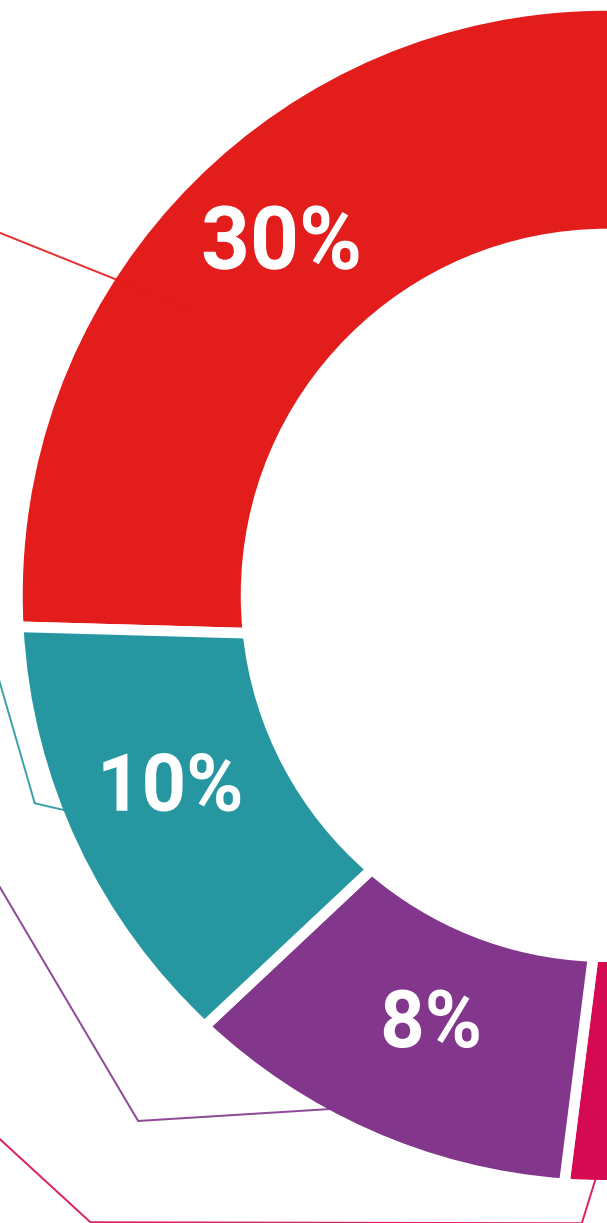
#### Practising Skills and Abilities

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 Diploma in Theory of Science, Language and Bioethics guarantees, in addition to the most rigorous and up-to-date training, access to a qualification issued by TECH Global University.







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

This program will allow you to obtain your **Postgraduate Diploma in Theory of Science, Language and Bioethics** endorsed by **TECH Global University**, the world's largest online university.

**TECH Global University** is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

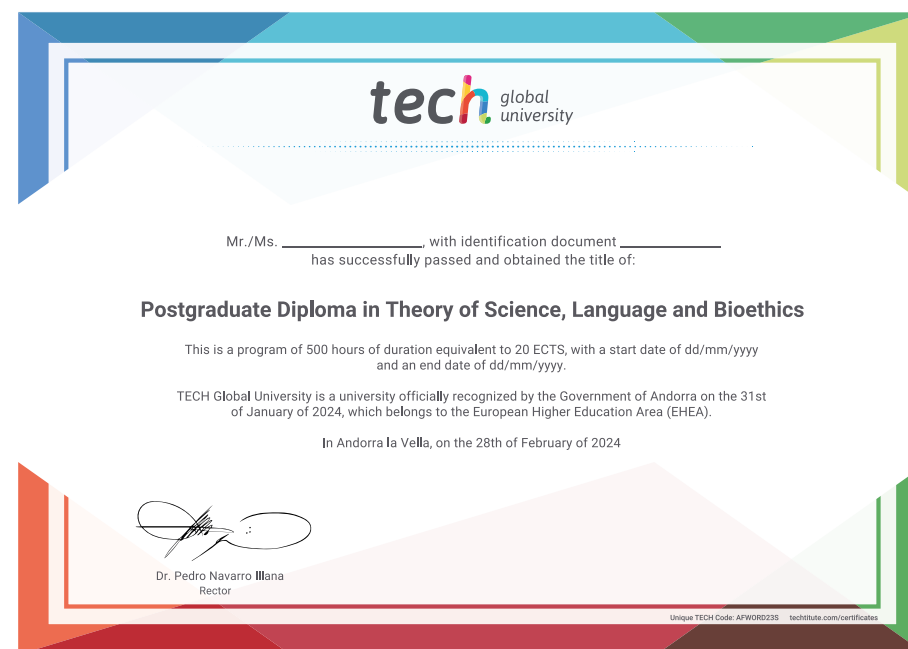
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Theory of Science, Language and Bioethics**

Modality: **online**

Duration: **6 months**

Accreditation: **20 ECTS**



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



## Postgraduate Diploma Theory of Science, Language and Bioethics

- » Modality: **online**
- » Duration: **6 months**
- » Certificate: **TECH Global University**
- » Credits: **20 ECTS**
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