

# Postgraduate Diploma Soil and Rock Foundations





## Postgraduate Diploma Soil and Rock Foundations

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 24 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/us/engineering/postgraduate-diploma/postgraduate-diploma-soil-rock-foundations](http://www.techtitute.com/us/engineering/postgraduate-diploma/postgraduate-diploma-soil-rock-foundations)

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# 01

# Introduction

The main objective of the Postgraduate Diploma in Soil and Rock Foundations is to provide the professional with a clear idea of the great differences that exist between geology and all that this entails in rocks and soil. In this way, students, starting from advanced concepts already acquired in the world of civil engineering and from a practical application point of view, will understand in depth the most important geotechnical aspects that can be found in different types of foundations. In the same way, this training program will address the characterization of the materials that constitute the geotechnical works, since each of the projects or works, have particular characteristics that must be considered when performing the geotechnical characterization.



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*This is a great training opportunity in which you will be able to acquire in-depth knowledge of the differences between foundations according to the type of soil"*

The Postgraduate Diploma in Soil and Rock Foundations is academically designed to provide in-depth knowledge, based on advanced concepts already acquired in the world of civil engineering and from a practical application point of view, of the most important geotechnical aspects that can be found in different types of civil works.

The content ranges from the specific behavior of soils and rocks, with a constant differentiation of both types of terrain throughout all the topics, to their direct application in foundations and structures.

The Postgraduate Diploma, has a syllabus that mixes some of them with more applied theoretical load (such as those related to the models of ground behavior, the necessary requirements for a good identification of soils and rocks or the interaction of the ground with seismic disturbances), with others with eminent component of practical analysis, where the knowledge acquired on the behavior of the ground and its stress-strain states of this first part, are applied to the usual structures of Geotechnical Engineering: slopes, walls, walls, screens, tunnels.....

Geotechnical engineering and its application in foundations and structures is present in many civil engineering projects and works. This path, which goes from compaction and seismic considerations in linear works to the execution of tunnels and galleries, is the one that is carried out with the case studies addressed in each of the Postgraduate Diploma subjects. It is a priority that these case studies are current and relevant. This allows for an original and application-oriented analysis of the theoretical concepts developed throughout the course.

Therefore, the Postgraduate Diploma in Soil and Rock Foundations integrates the most complete and innovative educational program in the current market in terms of knowledge and latest available technologies, in addition to encompassing all sectors or parties involved in this field. In addition, the Postgraduate Diploma consists of exercises based on real cases of situations currently managed or previously faced by the teaching team.

All this, through a 100% online specialization that provides the student with the ease of being able to take it wherever and whenever they want. All you need is a device with internet access, and you will be able to access a universe of knowledge that will be the main asset of the engineer when positioning themselves in a sector that is increasingly in demand by companies in various sectors.

This **Postgraduate Diploma in Soil and Rock Foundations** is the most comprehensive and up-to-date educational program on the market. The most important features of the program include:

- » Practical cases presented by experts in Civil Engineering and Geotechnics.
- » 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.
- » Practical exercises where the self-assessment process can be carried out to improve learning.
- » 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.



*Apply the latest advances in soil and rock foundations and become a successful engineer"*

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*You will be provided with innovative teaching materials and resources that will facilitate the learning process and the retention of the contents learned for a longer period of time”*

*A 100% online specialization that will allow you to combine your studies with the rest of your daily activities*

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 professional will be assisted by an innovative interactive video system created by renowned and experienced engineering experts.



# 02 Objectives

TECH has designed this comprehensive Postgraduate Diploma with the aim to train engineering professionals to be able to design, implement and work on civil works, knowing everything related to this industry and technical and professional aspects at the national and international level that directly affect it. To this end, specific aspects of the profession that stand out for their enormous importance in today's business landscape will be addressed, and for which large corporations are increasingly demanding competent engineers with a solid specialized training.







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*With this program, TECH has only one goal: to help you grow in your profession and become a prestigious engineer”*



## General Objectives

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- » Delve deeper into kinds of grounds, not only in their typology but also in their behavior Not only in the evident differentiation of stresses and deformations of soils and rocks, but also under particular but very common conditions, such as the presence of water or seismic disturbances.
- » Efficiently recognize the needs for ground characterization, being able to design campaigns with the optimal means for each type of structure, optimizing and giving added value to the study of materials.
- » Identify the behavior of slopes and semi-subterranean structures such as foundations or walls in their different typologies This complete identification must be based on understanding and being able to anticipate the behavior of the terrain, the structure and its interface Know in detail the possible faults that each set can produce and as a consequence have a deep understanding of the repair operations or improvement of materials to mitigate damage.
- » Receive a complete tour of tunnel and gallery excavation methodologies, analyzing all drilling procedures, design constraints, support and lining.



*A specialization designed based on practical cases that will teach you how to act in real situations in the daily practice of your profession"*



## Specific Objectives

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### Module 1. Soil and Rock Behavior

- » Establish the main differences between dynamic and static characterization and behavior of soils and rocks.
- » Present the most important geotechnical parameters in both cases and their most commonly used constitutive relationships.
- » Detailed knowledge of the different behaviours of terrain and the most commonly used elastic and plastic models for all types of terrain.
- » Make a presentation of the most common stress cases in practice Soil behavior at different degrees of saturation, swelling and compaction in soils The fundamental principles of these constraints and their application throughout the development of ground dynamics and statics are the application parts and objectives for this module.
- » From the practical point of view, the objectives will be marked by the need to discern all the parameters, stresses, types of stresses and soil and rock concepts In the same way, which are for each of the cases, the constitutive models of the terrain to be used depending on the characteristics of each of the actions to be approached.

**Module 2. Ground Recognition: Characterization and Auscultation**

- » Define the characteristics to be contained in a specific geotechnical study applied to each particular soil and application requirements.
- » Establish the concepts included in the most important international standards for sampling and field testing, making a comparison of each one of them.
- » Acquire in-depth knowledge of the data obtained in field surveys and their interpretation.
- » Recognize the need to complement field tests with other complementary tests, such as dynamic and static penetration tests.
- » Acquire the necessary knowledge regarding drilling fluids, both for field testing and for other types of drilling Characteristics, applications, performance, etc.
- » Deepen in the practical utility of permeability tests, identifying their fields of application and their convenience.
- » Make special emphasis on the correct planning of a geotechnical survey campaign, establishing the timing and performance of each phase.
- » Extend in a practical way the knowledge of laboratory tests Not in terms of definition, which is a known fact, but in terms of being able to foresee the results to be obtained and to identify inappropriate results and malpractice in their execution.
- » Establish the usefulness of geophysical survey systems.
- » As far as auscultation is concerned, the main objective of the subject is the recognition of the elements to be auscultated and their actual application on site In addition, new technologies for continuous auscultation are analyzed.

**Module 3. Superficial Foundations**

- » In-depth knowledge of the conditioning factors that influence the design and behavior of shallow foundations.
- » Analyze the trends in the different international design standards, contemplating their differences in terms of criteria and the different safety coefficients used.
- » Recognize the different actions present in shallow foundations, both those that require and those that contribute to the stability of the element.

- » Establish a sensitivity analysis of the behavior of the foundations in the evolution of this type of loads.
- » Identify the different types of improvement of foundations already in use, classifying them according to the type of foundation, the soil on which it is located and the age at which it was built.
- » Break down, in a comparative way, the costs of the use of this type of foundations and their influence on the rest of the structure.
- » Identify the most common types of surface foundation failures and their most effective corrective measures.

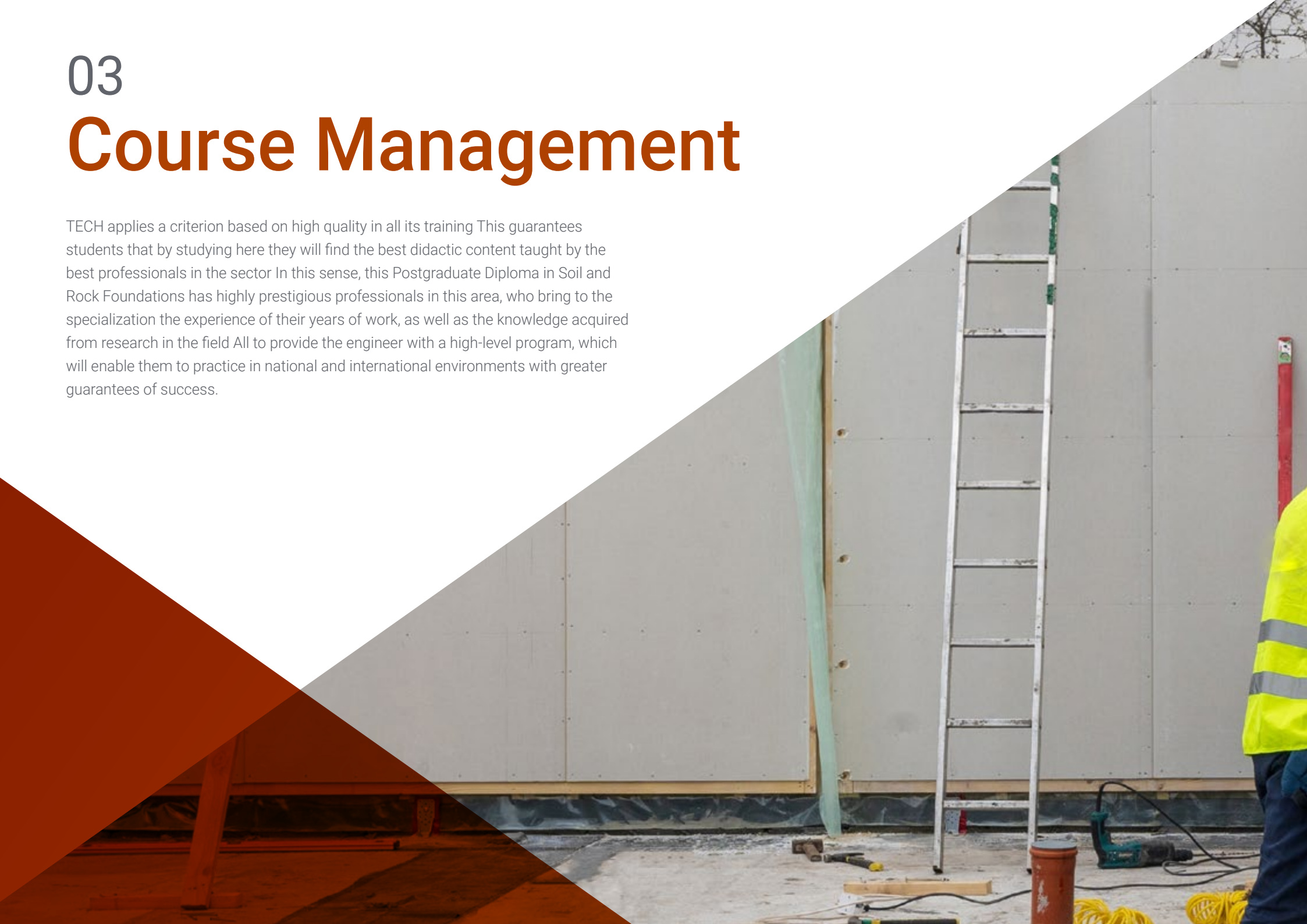
**Module 4. Deep foundations**

- » Acquire a detailed knowledge of piles as deep foundation elements, analyzing all their characteristics, construction typologies, auscultation capacity, types of failure, etc
- » Review other deep foundations of more specific use, for special structures, pointing out those types of projects in which they are used and with very particular practical cases.
- » Analyze the major enemies of this type of foundations, such as negative friction or loss of tip resistance, among others.
- » Have a high degree of knowledge of deep foundation repair methodologies and auscultation, both initial execution and repairs.
- » Measure and size in a correct way and according to the particular characteristics of the work, the appropriate deep foundations.
- » Complete the study of deep foundations with the upper bracing elements and their grouping, with a clear development of the structural dimensioning of the pile caps.

# 03

# Course Management

TECH applies a criterion based on high quality in all its training. This guarantees students that by studying here they will find the best didactic content taught by the best professionals in the sector. In this sense, this Postgraduate Diploma in Soil and Rock Foundations has highly prestigious professionals in this area, who bring to the specialization the experience of their years of work, as well as the knowledge acquired from research in the field. All to provide the engineer with a high-level program, which will enable them to practice in national and international environments with greater guarantees of success.





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*Learn with the best and acquire the knowledge and skills you need to intervene in this area of development with total success"*

## Management



### Mr. Aldona, Alfonso, Estébanez

- » Civil Engineer graduated from the Polytechnic University of Madrid.
- » Studying the E.T.S.I. Ph.D Roads, Canals and Ports U.P.M. in the Department of Terrain Engineering.
- » Course of Health and Safety Coordinator in Construction Works registered by the CAM nº 3508.
- » Engineering and Technical Director at ALFESTAL
- » International Consultant and Project Manager at D2
- » Project Manager in the Department of Tunnels and Underground Works in Inarsa S.A
- » Assistant Technician in the Geology and Geotechnical Department of Intecsa-Inarsa.

## Professors

### Mr. Sandin Sainz-Ezquerro, Juan Carlos

- » Specialist in the calculation of structures and foundations, fields in which he has developed his entire professional career over the last 25 years.
- » Civil Engineer graduated the ETSI of, Canals and Ports from the Polytechnic University of Madrid (U.P.M.).
- » Studying the E.T.S.I. Ph.D Roads, Canals and Ports U.P.M. in the Structures Department.
- » Course on integration of BIM technology in structural design 2017.
- » Lecturer in the BIM Master developed at the Colegio de Caminos 2019.
- » Technical assistance for SOFISTIK AG for Spain and Latin America, finite element modeling software for terrain and structures.

### Mr. Clemente Sacristan, Carlos

- » Civil Engineer graduated from the Polytechnic University of Madrid.
- » Development of large-scale linear works for different administrations (ADIF, Ministry of Public Works, Provincial Council of Vitoria...) being a reference project manager in the field of linear works.
- » Executive at BALGORZA S.A.
- » Occupational risk prevention course for construction company managers.
- » Advanced course in management of large turnkey projects (EPC).

### Ms. Lope Martín, Raquel

- » Geological Engineer Complutense University of Madrid UCM
- » PROINTEC's technical department has been involved in various projects requiring improvement treatments, both nationally and internationally: jet grouting, gravel columns, vertical drainage, etc.
- » Course on Geotechnics Applied to Building Foundations
- » Course on Technical Control for Property and Casualty Insurance Geotechnics, foundations and structures.

# 04

# Structure and Content

The syllabus of the Postgraduate Diploma is structured as a comprehensive tour through each and every one of the concepts required to understand and work in this field. Thus, through a novel didactic approach, based on the practical application of the contents, the engineer will learn and understand the functioning of geotechnics and foundations, knowing how to design and implement projects in this sense, providing high safety indexes and services to the companies. This, in addition to adding value to your professional profile, will make you a much better prepared professional to work in a variety of environments.





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*A comprehensive syllabus focused on acquiring knowledge and converting it into real skills, created to propel you to excellence”*

## Module 1: Soil and Rock Behavior

- 1.1. Principle Fundamentals and Magnitudes
  - 1.1.1. Ground as a Three-phase System
  - 1.1.2. Types of stress States
  - 1.1.3. Constitutive Quantities and Relationships
- 1.2. Semi-saturated Soils
  - 1.2.1. Soil Compaction
  - 1.2.2. Water in Porous Environment
  - 1.2.3. Stress in Soil
  - 1.2.4. Behaviour of water in Soil and Rocks
- 1.3. Behaviour Models in Soils
  - 1.3.1. Constitutive Models
  - 1.3.2. Non-Linear Elastic Models
  - 1.3.3. Elastoplastic Models
  - 1.3.4. Basic Formulation of Critical State Models
- 1.4. Soil Dynamics
  - 1.4.1. Behaviour After Vibrations
  - 1.4.2. Soil Structure Interaction
  - 1.4.3. Soil Effect on Structures
  - 1.4.4. Behavior in Soil Dynamics
- 1.5. Expansive Soils
  - 1.5.1. Saturation Processes Swelling and Collapse
  - 1.5.2. Collapsible Soils
  - 1.5.3. Soil Behavior Under Swelling
- 1.6. Rock Mechanics
  - 1.6.1. Mechanical Properties of Rocks
  - 1.6.2. Mechanical Properties of Discontinuities
  - 1.6.3. Applications of Rock Mechanics
- 1.7. Characterization of the Rock Massif
  - 1.7.1. Characterization of the Properties of Massifs
  - 1.7.2. Deformity Properties of Massifs
  - 1.7.3. Post-breakage Characterization of the Massif
- 1.8. Rock Dynamics
  - 1.8.1. Crust Dynamics
  - 1.8.2. Rock Elasticity-Plasticity
  - 1.8.3. Rock Elasticity Constants
- 1.9. Discontinuities and Instabilities
  - 1.9.1. Geomechanics of Discontinuities
  - 1.9.2. Water in Discontinuities
  - 1.9.3. Discontinuity Families
- 1.10. Limit States and Loss of Equilibrium
  - 1.10.1. Natural Stress in Terrain
  - 1.10.2. Types of Breakages
  - 1.10.3. Flat Break and Wedge Break

**Module 2: Ground Recognition: Characterization and Auscultation**

- 2.1. Geotechnical Study
  - 2.1.1. Terrain Recognition
  - 2.1.2. Content of the Geotechnical Study
  - 2.1.3. On-site Testing and Trials.
- 2.2. Standards for the Execution of Tests
  - 2.2.1. Basis of Testing Standards
  - 2.2.2. Comparison of International Standards
  - 2.2.3. Results and Interactions
- 2.3. Field Probes and Reconnaissance
  - 2.3.1. Probes
  - 2.3.2. Static and Dynamic Penetration Tests
  - 2.3.3. Permeability Tests
- 2.4. Identification Tests
  - 2.4.1. Status Tests
  - 2.4.2. Resistance Tests
  - 2.4.3. Expansivity and Aggressivity Tests
- 2.5. Considerations Prior to Proposing Geotechnical Surveys
  - 2.5.1. Perforation Program
  - 2.5.2. Geotechnical Performance and Scheduling
  - 2.5.3. Geological Factors
- 2.6. Perforation Fluids
  - 2.6.1. Variety of Perforation Fluids
  - 2.6.2. Fluid Characteristics: Viscosity
  - 2.6.3. Additives and Applications
- 2.7. Geological-geotechnical Testing, Geomechanical Stations
  - 2.7.1. Test Typology
  - 2.7.2. Determination of Geomechanical Stations
  - 2.7.3. Characterization at Great Depth.
- 2.8. Pumping Wells and Pumping Tests
  - 2.8.1. Typology and Means Required
  - 2.8.2. Test Planning
  - 2.8.3. Interpretation of the Results

- 2.9. Geophysical Investigation
  - 2.9.1. Seismic Methods
  - 2.9.2. Electric Methods
  - 2.9.3. Interpretation and Results
- 2.10. Auscultation
  - 2.10.1. Superficial and Firm Auscultation
  - 2.10.2. Auscultation of Movements, Stresses and Dynamics
  - 2.10.3. Application of New Technologies in Auscultation

**Module 3: Superficial Foundations**

- 3.1. Footings and Foundation Slabs
  - 3.1.1. Most Common Types of Footings
  - 3.1.2. Rigid and Flexible Footings
  - 3.1.3. Large Shallow Foundations
- 3.2. Design Criteria and Regulations
  - 3.2.1. Factors that Affect Footing Design
  - 3.2.2. Elements Included in International Foundation Regulations
  - 3.2.3. General Comparison Between Normative Criteria for Shallow Foundations
- 3.3. Actions Carried Out on Foundations
  - 3.3.1. Actions in Buildings
  - 3.3.2. Actions in Retaining Structures
  - 3.3.3. Terrain Actions
- 3.4. Foundation Stability
  - 3.4.1. Bearing Capacity of the Soil
  - 3.4.2. Sliding Stability of the Footing
  - 3.4.3. Tipping Stability
- 3.5. Ground Friction and Adhesion Enhancement
  - 3.5.1. Soil Characteristics Influencing Soil-Structure Friction
  - 3.5.2. Soil-Structure Friction According to the Foundation Material
  - 3.5.3. Soil-Citation Friction Improvement Methodologies

- 3.6. Foundation Repairs Underlay
  - 3.6.1. Need of Foundation Repair
  - 3.6.2. Types of Repairs
  - 3.6.3. Underlay Foundations
- 3.7. Displacement in Foundation Elements
  - 3.7.1. Displacement Limitation in Shallow Foundations
  - 3.7.2. Consideration of Displacement in the Calculation of Shallow Foundations
  - 3.7.3. Estimated Calculations in the Short Term And in the Long Term
- 3.8. Comparative Relative Costs
  - 3.8.1. Estimated Value of Foundation Costs
  - 3.8.2. Comparison According to Superficial Foundations
  - 3.8.3. Estimation of Repair Costs
- 3.9. Alternative Methods Foundation Pits
  - 3.9.1. Semi-deep Superficial Foundations
  - 3.9.2. Calculation and Use of Pit Foundations
  - 3.9.3. Limitations and Uncertainties About the Methodology
- 3.10. Types of Faults in Superficial Foundations
  - 3.10.1. Classic Breakages and Capacity Loss in Superficial Foundations
  - 3.10.2. Ultimate Resistance in Superficial Foundations
  - 3.10.3. Overall Capacities and Safety Coefficients





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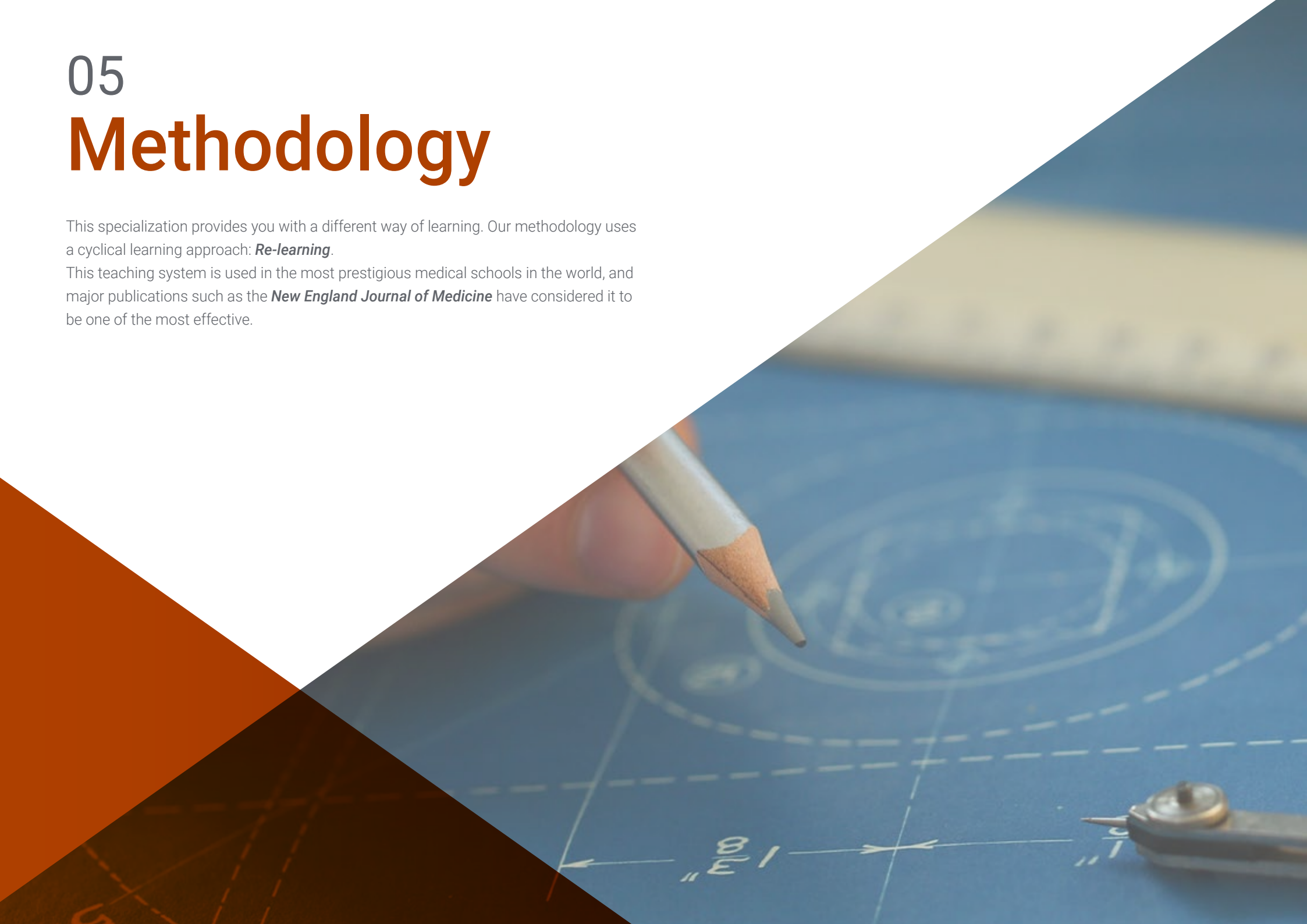
*A unique learning opportunity that will catapult your career to the next level Don't let it slip away."*

05

# Methodology

This specialization provides you with a different way of learning. Our methodology uses a cyclical learning approach: *Re-learning*.

This teaching system is used 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 Re-learning, 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 you a revolutionary approach to developing your skills and knowledge. Our goal is to strengthen your skills in a changing, competitive, and highly demanding environment.

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*With TECH you can experience a way of learning that is shaking the foundations of traditional universities around the world”*



*Our school is the first in the world to combine Harvard Business School case studies with a 100% online learning system based on repetition*





### A learning method that is different and innovative.

This Engineering program at TECH is an intensive program that prepares you to face all the challenges in this area, both nationally and internationally. The main objective is to promote your personal and professional growth. For this purpose, we rely on the case studies of Harvard Business School, with which we have a strategic agreement that allows us to use the materials used in the most prestigious university in the world: HARVARD.

“ We are the only online university that offers Harvard materials as teaching materials on its courses ”

*The student will learn, through collaborative activities and real cases, how to solve complex situations in real business environments*

The case method has been the most widely used learning system among the world's leading business 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.

In a given situation, what would you do? This is the question that you are presented with in the case method, an action-oriented learning method. Throughout the course, you will be presented with multiple real cases. You will have to combine all your knowledge, and research, argue, and defend your ideas and decisions.

## Re-Learning 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 16 different teaching elements in each lesson.

We enhance Harvard case studies with the best 100% online teaching method: Re-learning.

*In 2019 we obtained the best learning results of all Spanish-language 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 Re-learning.

Our University is the only one in Spanish-speaking countries licensed to incorporate 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 Spanish online university indicators.



In our program, learning is not a linear process, but rather a spiral (we 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.

*Re-learning 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 to success*

Based on the latest evidence in neuroscience, not only do we know how to organize information, ideas, images, memories, but we also know that the place and context where we have learned something is crucial for us to be able to remember it and store it in the hippocampus, and 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.



In this program you will have access to the best educational material, prepared with you 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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



### 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 our future difficult decisions.



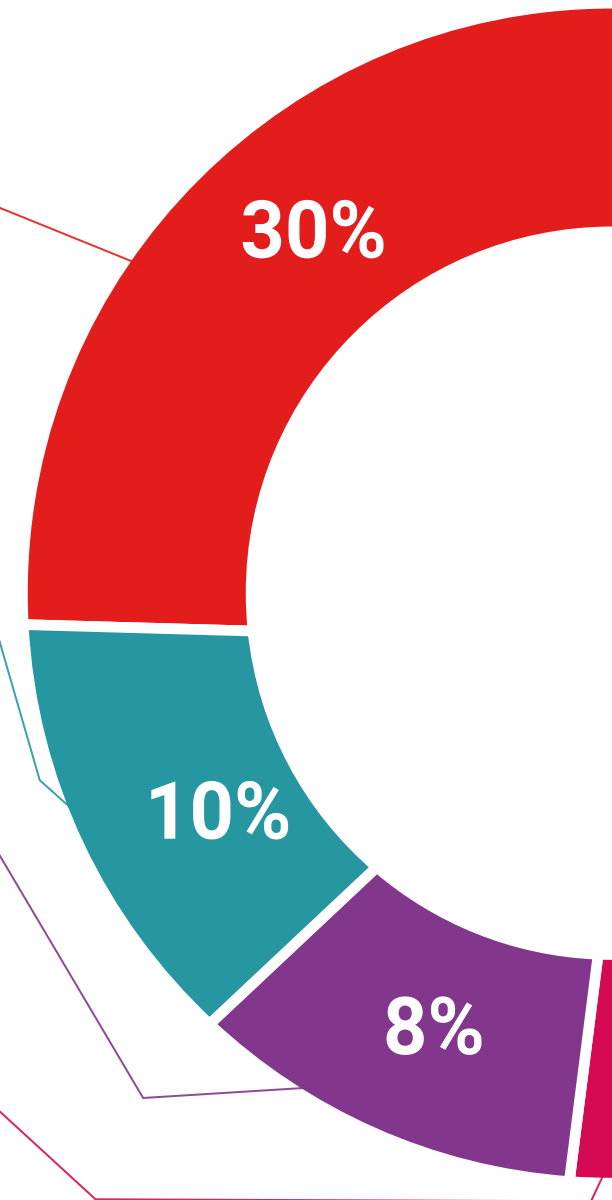
### Practising Skills and Abilities

You 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 we live in.



### Additional Reading

Recent articles, consensus documents, international guides... in our virtual library you will have access to everything you need to complete your training.





**Case Studies**

You 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 Latin America.



**Interactive Summaries**

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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



**Testing & Re-testing**

We periodically evaluate and re-evaluate your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.



06

# Certificate

The Postgraduate Diploma in Soil and Rock Foundations guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Global University.



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*Include in your specialization a Postgraduate Diploma in Soil and Rock Foundations: a highly qualified added value for any professional in the field of education"*

This program will allow you to obtain your **Postgraduate Diploma in Soil and Rock Foundations** 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.

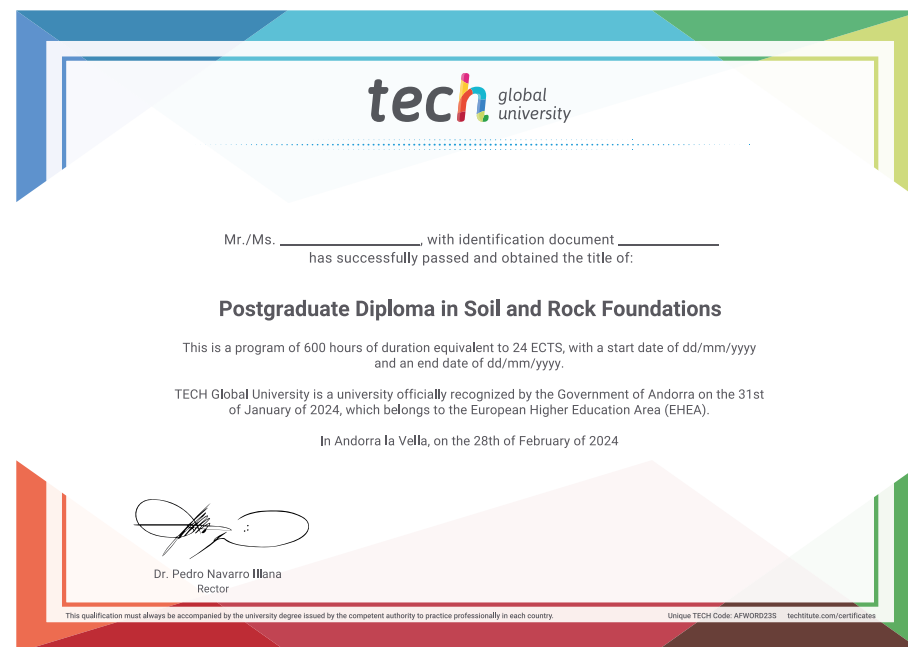
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Soil and Rock Foundations**

Modality: **online**

Duration: **6 months**

Accreditation: **24 ECTS**



\*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University 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

online tra

development langu

classroom

**tech** global  
university

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