



Postgraduate Certificate

Exercise for Functional Recovery

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Credits: 6 ECTS

» Schedule: at your own pace

» Exams: online

We bsite: www.techtitute.com/us/sports-science/postgraduate-certificate/exercise-functional-recovery

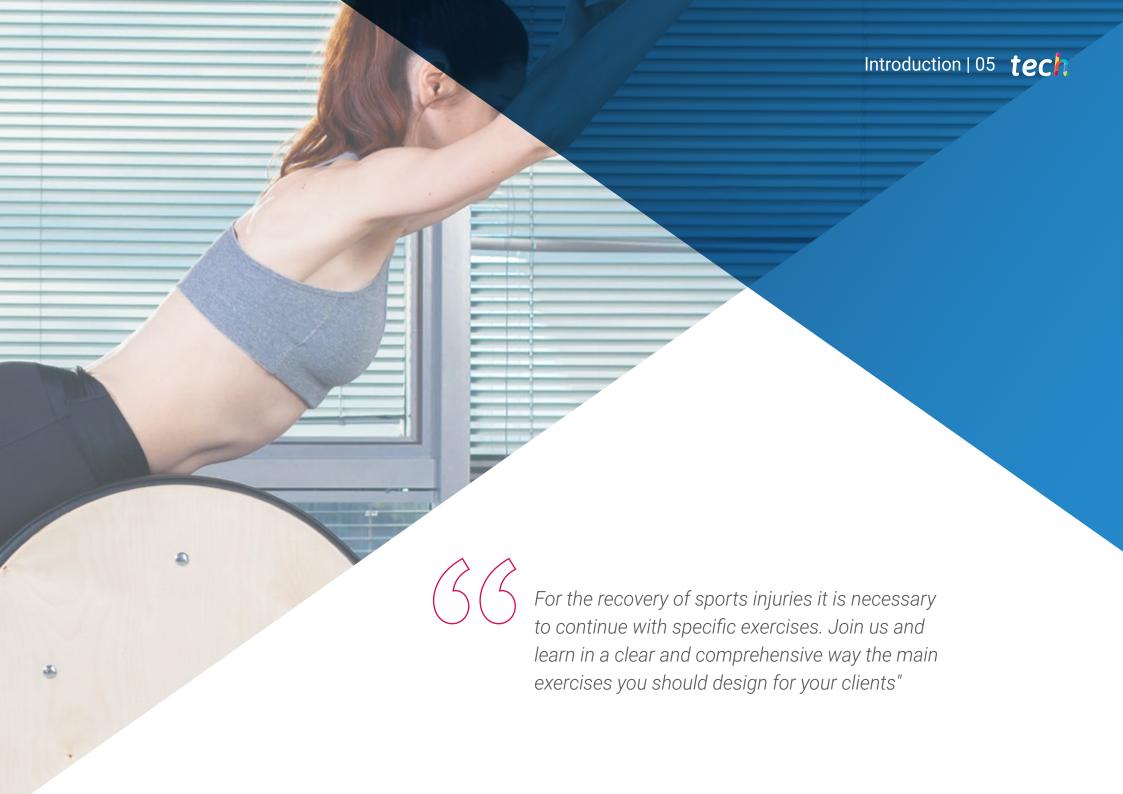
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Certificate





tech 06 | Presentation

The main objective of functional recovery is to train the injured individual with body damage or dysfunction, performing three-dimensional movements, preparing the body for its reincorporation into daily activity. In this program, we will show what functional rehabilitation consists of, how the proprioception mechanism is produced, as well as the articular receptors and the control capacity at a neuromuscular level. In addition, the characteristics of the central nervous system and how it intervenes in motor control will be discussed. On the other hand, we will analyze how to restore proprioception and improve neuromuscular control

The professional will also have the opportunity to delve into the study of therapeutic pilates as a technique for the improvement and evolution of functional capacity in cases such as lower back pain, neck pain, multiple sclerosis, arthritis, following the implantation of hip, shoulder and knee prostheses, for the recovery of the rotator cuff, or following arthroscopic surgery, sprains, scoliosis, impingement, stroke, Parkinson's, etc.

Lastly, we will approach functional and advanced rehabilitation work in injuries and pathologies common to the cervical and thoracic spine, rehabilitating injuries and pain in the neck and lumbar spine, reducing the high incidence of lower back pain and disability caused by osteoarthritis and sciatica. You will also learn about scapular stability work and improvement in the mobility and strength of the hip with open and closed chain movements, the exercises that improve control and dynamic stability of the knee as well as control work, stability and strength for the rehabilitation of sprains, tendinopathy and plantar fasciitis

This is the most complete training a student can find to specialize in personal training. As it is an online program, the student is not constrained by fixed schedules or the need to move to another physical location, but rather, they can access the contents at any time of the day, allowing them to balance their professional or personal life with their academic life as they please

This **Postgraduate Certificate in Exercise for Functional Recovery** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of numerous case studies presented by specialists in personal training
- The graphic, schematic and practical contents of the course are designed to provide all the essential information required for professional practice
- Exercises where the self-assessment process can be carried out to improve learning.
- Algorithm-based interactive learning system for decisionmaking
- Special emphasis on innovative methodologies in the design of exercises for functional recovery
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection work
- Content that is accessible from any fixed or portable device with an Internet connection



Immerse yourself in the study of this highlevel Postgraduate Certificate and improve your skills as a personal trainer"

Introduction | 07 tech



This program is the best investment you can make in selecting a refresher program for two reasons: in addition to updating your knowledge as a personal trainer, you will obtain a qualification from the leading online university: TECH Global University"

The teaching staff includes professionals from the field of sports science, who bring their 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 learning programmed to train in real situations

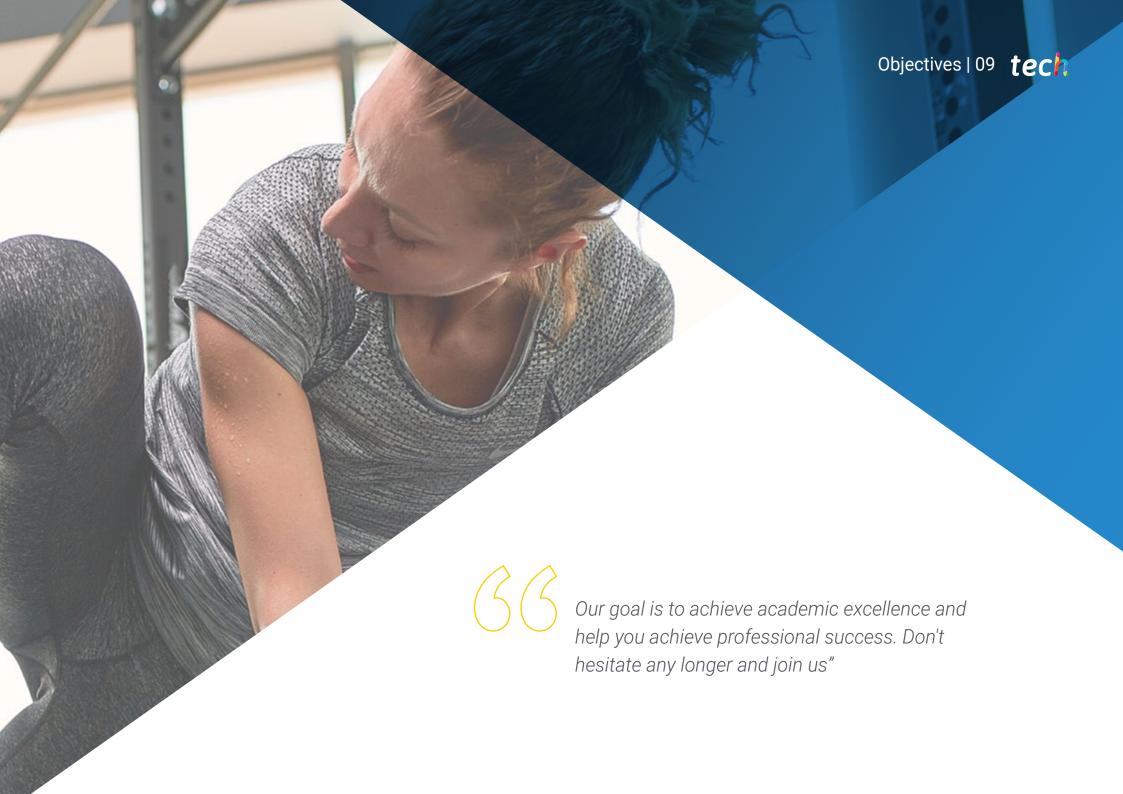
This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts in injury rehabilitation and functional recovery exercises

This program offers educational content in simulated environments which provides an immersive learning experience designed to train for real-life situations.

This 100% online Postgraduate Certificate will allow you to combine your studies with your professional work while increasing your knowledge in this field.







tech 10 | Objectives



General Objectives

- Acquire specialized knowledge in sports rehabilitation, injury prevention and functional recovery
- Assess the athlete from the point of view of physical, functional and biomechanical condition to detect aspects that hinder recovery or favor relapses in the injury
- Design both specific readaptation and recovery work as well as individualized integral work
- Acquire a specialization in the pathologies of the locomotor system with the highest incidence in the population as a whole
- Evaluate and monitor the evolutionary process of recovery and/or rehabilitation of an athlete's or user's injury
- Acquire skills and abilities in readaptation, prevention and recovery, increasing professional possibilities as a personal trainer
- Differentiate from an anatomical point of view the different parts and structures of the human body
- Improve the injured athlete's physical condition as part of the integral work with the objective of achieving a better and efficient recovery after the injury







Specific Objectives

- Analyze the different possibilities offered by functional training and advanced rehabilitation
- Apply the Pilates method as an integral system for the rehabilitation of the locomotor system in functional recovery
- Plan specific Pilates exercises and programs for the different areas of the locomotor system with and without apparatus



The sports field requires trained professionals and we give you the keys to position yourself among the professional elite"







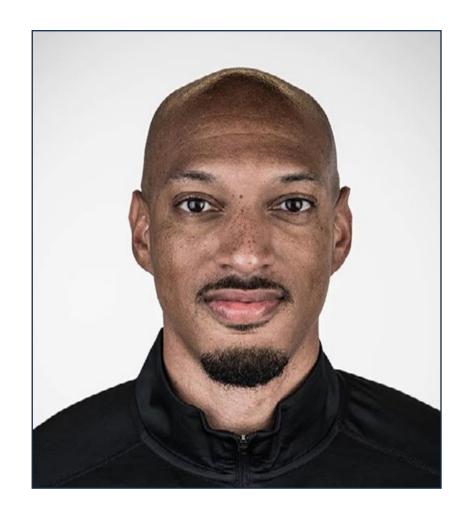
International Guest Director

Dr. Charles Loftis is a renowned specialist who serves as a **sports performance therapist** for the **Portland Trail Blazers in the NBA**. His impact on the world's premier basketball league has been significant, bringing distinguished expertise in creating strength and conditioning programs.

Prior to joining the Trail Blazers, he was the head strength and conditioning coach for the lowa Wolves, implementing and overseeing the development of a comprehensive player program. In fact, his experience in the sports performance field began with the establishment of XCEL Performance and Fitness, of which he was the founder and head coach. There, Dr. Charles Loftis worked with a wide range of athletes to develop strength and conditioning programs, in addition to working on the prevention and rehabilitation of sports injuries.

His academic background in the field of chemistry and biology gives him a unique perspective on the science behind sports performance and physical therapy. As such, he holds CSCS and RSCC designations from the National Strength and Conditioning Association (NSCA), which recognize his knowledge and skills in the field. He is also certified in PES (Performance Enhancement Specialist), CES (Corrective Exercise Specialist) and dry needling.

All in all, Dr. Charles Loftis is a vital member of the NBA community, working directly with both the strength and performance of elite athletes as well as the necessary prevention and rehabilitation of various sports injuries.



Dr. Loftis, Charles

- Sports Performance Specialist at the Portland Trail Blazers Oregon, U.S.A.
- Head strength and conditioning coach for the Iowa Wolves
- Founder and head coach at XCEL Performance and Fitness
- Head performance coach for the Oklahoma Christian University men's basketball team
- Physical Therapist at Mercy
- Doctor of Physical Therapy from Langston University
- B.S. in Chemistry and Biology from Langston University



International Guest Director

Isaiah Covington is a highly skilled performance coach with extensive experience in treating and addressing various injuries in elite athletes. In fact, his professional career has been directed to the NBA, one of the most important sports leagues around the world. He is the **performance coach of the Bolton Celtics**, one of the most important teams in the Eastern Conference and with the greatest projection in the United States.

His work in such a demanding league has made him specialize in maximizing the physical and mental potential of the players. His past experience with other teams, such as the Golden State Warriors and the Santa Cruz Warriors, has been key. This has also allowed him to work on sports injuries, focusing on the prevention and rehabilitation of the most common injuries in elite athletes.

In the academic field, his interest has focused on the field of kinesiology, exercise science and high performance sport. All of this has led him to excel prolifically in the NBA, working day-to-day with some of the top basketball players and coaching staffs from around the world.

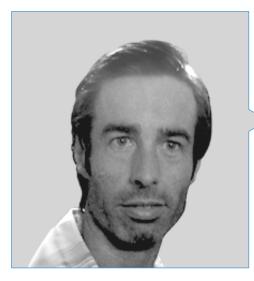


D. Covington, Isaiah

- Boston Celtics Performance Coach Massachusetts, U.S.A.
- Performance coach of the Golden State Warriors.
- Head Performance Coach of the Santa Cruz Warriors
- Performance Coach at Pacers Sports & Entertainment
- B.S. in Kinesiology and Exercise Science from the University of Delaware
- Specialization in Training Management
- Master's degree in Kinesiology and Exercise Science from Long Island University
- Master's Degree in Performance Sport from Australian Catholic University



Management



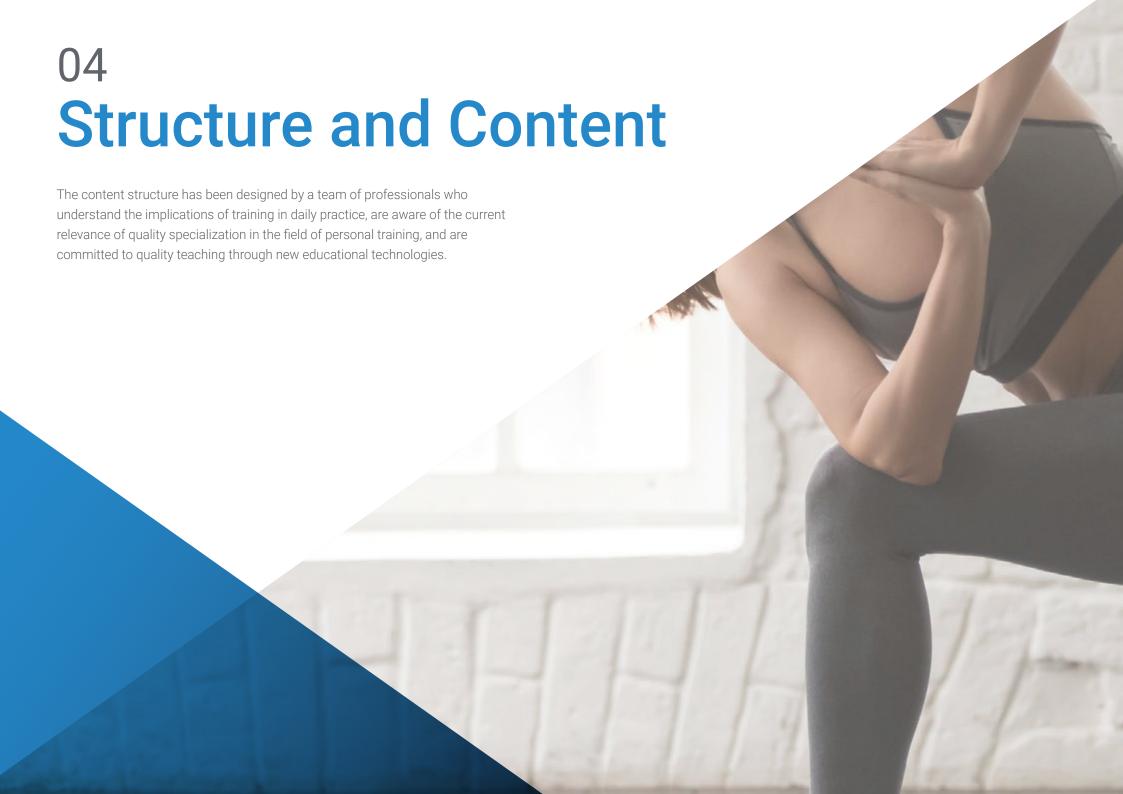
Dr. González Matarín, Pedro José

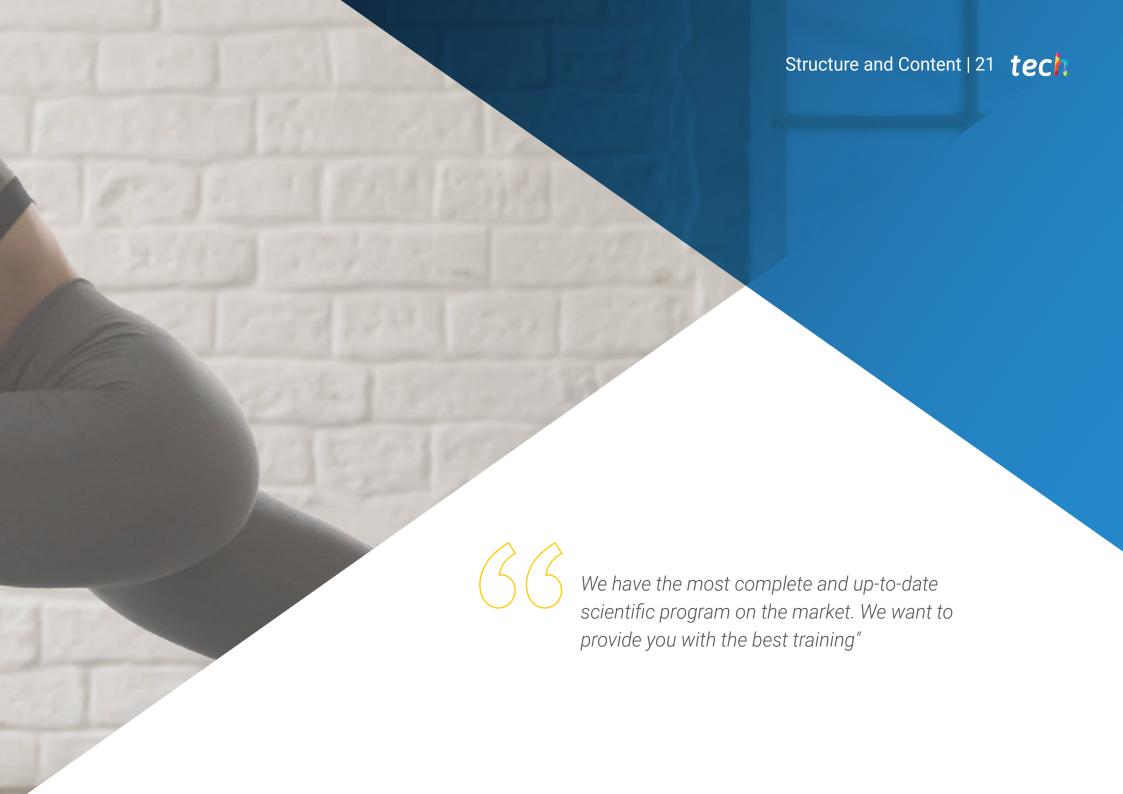
- Doctor in Health Sciences
- Degree in Physical Education Teacher
- Master's Degree in Functional Recovery in Physical Activity and Sport
- Master's Degree in Regeneration Medicine
- Master's Degree in Physical Activity and Health
- Master in Dietetics and Diet Therapy
- Postgraduate in Obesity
- Postgraduate in Nutrition and Dietetics
- Postgraduate Degree in Genomic Medicine, Pharmacogenetics and Nutrigenetics
- Associate Professor Doctor and Private University (DEVA)
- PDI collaborator at UNIR, VIU, UOC and TECH



Our teaching team will provide you with all their knowledge so that you are up to date with the latest information on the subject"



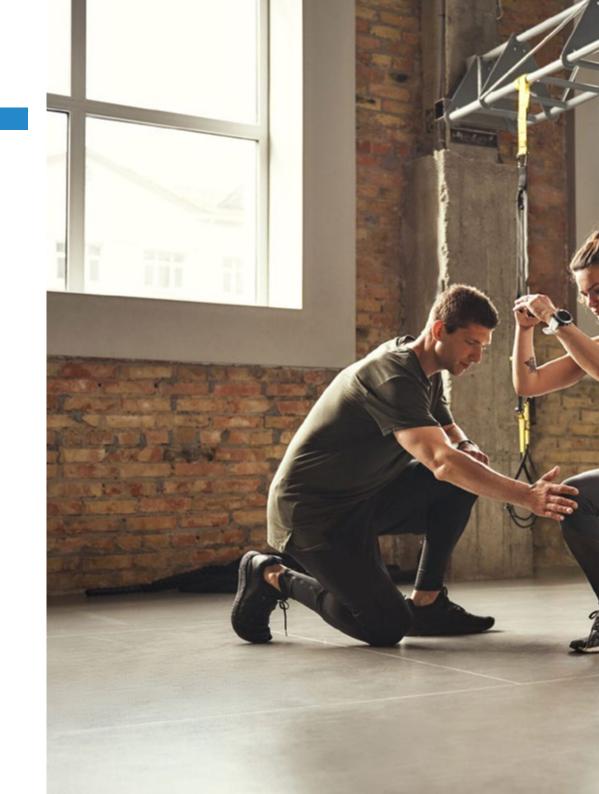




tech 22 | Structure and Content

Module 1. Exercise for Functional Recovery

- 1.1. Functional Training and Advanced Rehabilitation
 - 1.1.1. Function and Functional Rehabilitation
 - 1.1.2. Proprioception, Receptors and Neuromuscular Control
 - 1.1.3. Central Nervous System: Integration of Motor Control
 - 1.1.4. Principles for the Prescription of Therapeutic Exercise
 - 1.1.5. Restoration of Proprioception and Neuromuscular Control
 - 1.1.6. The 3-Phase Rehabilitation Model
- 1.2. The Science of Pilates for Rehabilitation
- 1.3. Principles of Pilates
- 1.4. Integration of Pilates in Rehabilitation
- 1.5. Methodology and Equipment Necessary for Effective Practice
- 1.6. Cervical and Thoracic Spine
- 1.7. The Lumbar Spine
- 1.8. Shoulder and Hip
- 1.9. Knee
- 1.10. Foot and Ankle



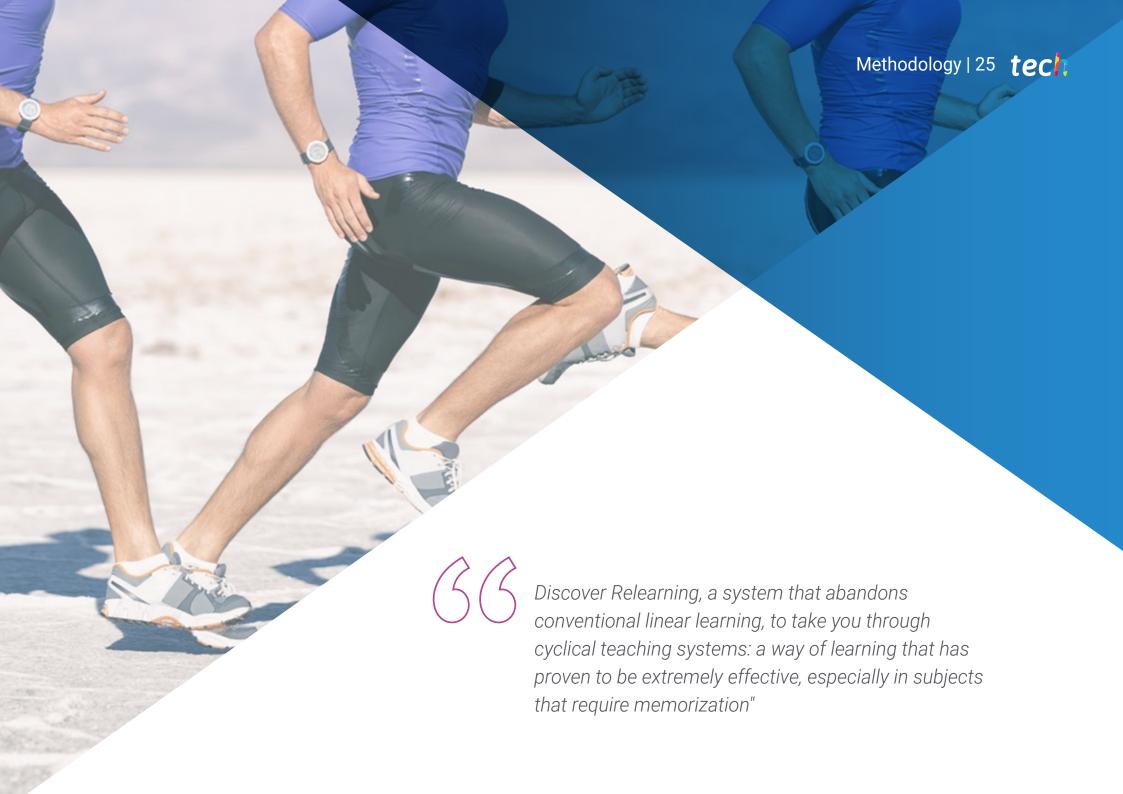




A of knowledge unique, key, and decisive training experience to boost your professional development"







tech 26 | Methodology

Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.



At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world"



You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.



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

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.



Our program prepares you to face new challenges in uncertain environments and achieve success in your career"

The case method is the most widely used learning system in the best faculties in the world. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.

tech 28 | Methodology

Relearning Methodology

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

We enhance the Case Study with the best 100% online teaching method: Relearning.

In 2019, we obtained the best learning results of all online universities in the world.

At TECH, you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



Methodology | 29 tech

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically. With this methodology, we have trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, markets, and financial instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.

tech 30 | Methodology

This program offers the best educational material, prepared with professionals in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



Practising Skills and Abilities

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



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.



Methodology | 31 tech



Case Studies

Students will complete a selection of the best case studies chosen specifically for this situation. 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

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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.





tech 30 | Certificate

This program will allow you to obtain your **Postgraduate Certificate in Exercise for Functional Recovery** 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 Certificate in Exercise for Functional Recovery

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



Mr./Ms. _____, with identification document _____ has successfully passed and obtained the title of:

Postgraduate Certificate in Exercise for Functional Recovery

This is a program of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



tech global university



Postgraduate Certificate

Exercise for Functional Recovery

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

