

# Postgraduate Diploma Locomotor System





## Postgraduate Diploma Locomotor System

- » Modality: online
- » Duration: 6 monthst
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/physiotherapy/postgraduate-diploma/postgraduate-diploma-locomotor-system](http://www.techtute.com/us/physiotherapy/postgraduate-diploma/postgraduate-diploma-locomotor-system)

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# 01

# Introduction

Achieving a correct diagnosis in the field of physiotherapy of the locomotor system allows early and correct detection of pathologies in this part of the body, so that the most appropriate treatments can be applied and, in this way, improve the health and quality of life of patients.





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*Making early and accurate diagnoses allows physiotherapists to apply appropriate treatments for each pathology, which will lead to faster recoveries"*

Improving the diagnosis of locomotor system pathologies will allow patients to increase their ability to move. Therefore, it is of vital importance that physiotherapy professionals are able to use the most advanced techniques to recognize what is happening in the patient's body and, therefore, achieve an early diagnosis.

For years, little importance has been given to diagnosis in physiotherapy, focusing all efforts on the treatment of different pathologies. Hence, the patient was considered to have arrived in the physiotherapist's hands with a clear diagnosis. However, there are more and more situations in which the patient arrives without a clear diagnosis, so that a correct definition of the pathology becomes a basic pillar of the professional's work, in order to address it correctly.

In order to train professionals in this field, TECH has designed this Postgraduate Diploma, which has been developed by a team of professionals of the highest level, with years of experience and experts in diagnosis of pathologies in different parts of the body.

In addition, this specialization has the advantage that it is carried out in a totally online format, so the student will be able to carry out his lessons in a totally self-directed way, choosing when and where to study, since he only needs to have a computer or mobile device with internet connection. In this way, you will be able to perfectly combine your study time with the rest of your daily obligations.

This **Postgraduate Diploma in Locomotor System** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of practical cases presented by experts in physiotherapy
- ♦ 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
- ♦ New developments in physiotherapy diagnosis in the musculoskeletal system
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ His special emphasis on innovative diagnostic methodologies in physiotherapy
- ♦ 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



*Expand your knowledge in physiotherapy diagnostics and improve your patients' care and, therefore, their quality of life"*

“

*This Postgraduate Diploma is the best investment you can make in selecting a refresher program to update your knowledge in physiotherapy in the locomotor system”*

Its teaching staff includes professionals belonging to the field of physiotherapy, who bring to this specialization the experience of their work, as well as recognized specialists from prestigious societies and universities.

Its multimedia content, developed with the latest educational technology, will allow physiotherapists situated and contextual learning, i.e. a simulated environment that will provide immersive Postgraduate Diploma programmed to train for 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 physiotherapy in the locomotor system.

*Use the best educational methodology to continue your specialization in the field of physical therapy.*

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



# 02 Objectives

The Postgraduate Diploma in Locomotor System is oriented to facilitate the performance of the highest level professional dedicated to physiotherapy with the latest advances in the sector.







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*To become one of the best physiotherapists  
you can't miss the opportunity to study this  
Postgraduate Diploma with us"*



## General Objectives

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- Be increasingly independent in diagnosing and applying the best and most correct treatment techniques.
- Planning treatment sessions and their short-, medium- and long-term objectives.
- Assess and modify treatment techniques and patient goals.



*A high-level course designed with the sole objective of enabling you to succeed”*





## Specific Objectives

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- ♦ Make correct, early and differential diagnoses in shoulder, elbow and hand (highly complex joints, with complex biomechanics and with a huge number of surrounding soft tissues), which will turn an injury into a recovery.
- ♦ Know how to differentiate between the different types of injuries that surround each of these joints, as well as how to diagnose them with the correct tests and assessments.
- ♦ Conduct an in-depth study of the temporomandibular joint: its anatomy, its biomechanics, its evaluation and how to apply this knowledge to treatment in order to observe the relationship with other pathologies.
- ♦ Analyze all types of dynamic and static tests that currently exist in order to provide precise diagnosis and treatment.
- ♦ Know how to differentiate between all types of assessment and evaluation which are the most effective in order to reach an early diagnosis of possible spinal pathologies.
- ♦ Study the spine in its different stages of evolution and recognise the most frequent developmental disorders.

03

# Course Management

The program includes in its teaching staff leading experts in physiotherapy, who bring to this specialization the experience of their work. Additionally, other recognized experts participate in its design and preparation, completing the program in an interdisciplinary manner.





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*Leading professionals in the field have come together to teach you the latest advances in physiotherapy diagnostics”*

## Management



### Mr. García Coronado, Luis Pablo

- Physiotherapist. In the last 15 years she has combined her work with training in business management
- Supervisor of the Physiotherapy Department at La Paz University Hospital. Since 2012
- Physiotherapist at La Paz University Hospital. Since 1999. Performing physiotherapy care functions in different areas, such as electrotherapy, physiotherapy room and inpatients

## Professors

### Mr. Jorge Cavero Cano

- ♦ Diploma in Physiotherapy from the Complutense University of Madrid. 2006-2009
- ♦ Postgraduate Diploma in Neuro-Orthopedic Manual Therapy La Salle University 2019
- ♦ McKenzie Method Part D. Advanced Level Cervical and Thoracic Spine, and Extremities– SSE McKenzie Institute of Spain and Portugal 2018
- ♦ Advanced Ultrasound Helios Electromedicine Madrid. 2018
- ♦ Physiotherapist at Premiummadrid - IMS. Fuenlabrada Madrid. Since 2016

### Mr. Sergio López Pozo

- ♦ Physiotherapist La Paz University Hospital. Since 2010
- ♦ Associate Physiotherapist of the Facial Paralysis Unit of Clínica Dermatológica Internacional. Since 2015
- ♦ Physiotherapy supervised practice coordinator Since 2014



# 04

# Structure and Content

The structure of the contents has been designed by the best professionals in the physical therapy sector, with an extensive background and recognized prestige in the profession, backed by the volume of cases reviewed, studied and diagnosed, and with extensive mastery of new technologies.





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*We have the most complete and up-to-date academic program in the market. We strive for academic excellence and we want you to achieve it too”*

## Module 1. Diagnosis in Upper Limbs

- 1.1. Shoulder Pathology
  - 1.1.1. Tendinopathies
  - 1.1.2. Instability
  - 1.1.3. Retractable Capsulitis
  - 1.1.4. Fractures
- 1.2. Elbow Pathology
  - 1.2.1. Tendinopathies: Epicondylitis and Epitrocleitis
  - 1.2.2. Fractures
  - 1.2.3. Neurovascular Pathology
- 1.3. Wrist and Hand Pathology
  - 1.3.1. Tendinopathies
  - 1.3.2. Fractures
  - 1.3.3. Neurovascular Pathology
- 1.4. MMSS Anatomy
  - 1.4.1. Shoulder
  - 1.4.2. Elbow
  - 1.4.3. Wrist and Hand
- 1.5. Sports Injuries in the Shoulder
  - 1.5.1. Traumatic
  - 1.5.2. Due to Overuse
- 1.6. Sports Injuries in the Elbow
  - 1.6.1. Traumatic
  - 1.6.2. Due to Overuse
- 1.7. Sports Injuries of the Wrist and Hand
  - 1.7.1. Traumatic
  - 1.7.2. Due to Overuse





- 1.8. Neurological Lesions of MMSS
  - 1.8.1. Shoulder
  - 1.8.2. Elbow
  - 1.8.3. Wrist and Hand
- 1.9. Frequent Pathologies of MMSS
- 1.10. Conclusions

## Module 2. Temporomandibular Pathology

- 2.1. Temporomandibular Anatomy
  - 2.1.1. Branch: Ophthalmic Nerve (Sensory)
  - 2.1.2. Branch: Maxillary Nerve (Sensory)
  - 2.1.3. Branch: Mandibular Nerve (Sensory - Motor)
- 2.2. Temporomandibular Biomechanics
  - 2.2.1. Articular surfaces, joint capsule, synovial system, direct and indirect ligaments, musculature, innervation, vascularization, sagittal plane movements, coronal plane movements
- 2.3. Temporomandibular Pathology
  - 2.3.1. Articular
  - 2.3.2. Muscular
  - 2.3.3. Neural
- 2.4. Temporomandibular Diagnosis
- 2.5. Static Tests
  - 2.5.1. Slippages: Lateral, Medial, Motor Barrier
- 2.6. Dynamic Tests
  - 2.6.1. Macromobility: Mandibular Opening, Diduction, protrusion, Retrusion
- 2.7. Temporomandibular Treatment
  - 2.7.1. Degrees of Mobilization, Types of Mobilization, Slips (Directions), Speed of Mobilization

- 2.8. Therapeutic Exercise
  - 2.8.1. Aerobic exercise, therapeutic techniques that aid in the treatment of patients with craniomandibular disorder
- 2.9. Motor Control
  - 2.9.1. Motor Role: Stabilizing Muscles, Dynamic Muscles, Mirror, Stabilizer, Tongue Guide
- 2.10. Invasive Techniques in Physiotherapy
  - 2.10.1. Dry Puncture: Superficial, Deep. Myofascial Trigger Point Treatment

### Module 3. Spinal Column Diagnosis

- 3.1. Scoliosis
  - 3.1.1. Etiopathogenesis
  - 3.1.2. Treatment
  - 3.1.3. Prevention
- 3.2. Lumbalgias
  - 3.2.1. Disk Pain
  - 3.2.2. Facet Pain
  - 3.2.3. Instability
- 3.3. Spinal Column Pathology
  - 3.3.1. Cervical
  - 3.3.2. Dorsal:
  - 3.3.3. Lumbar
- 3.4. Spinal Disorders
- 3.5. Pelvis Pathology
  - 3.5.1. Chronic Pelvic Pain
  - 3.5.2. Pubalgia
  - 3.5.3. Fractures
- 3.6. Cervicalgia
  - 3.6.1. With Restricted Movement
  - 3.6.2. Associated with Headache
  - 3.6.3. Associated with Movement Disorders: Whiplash
  - 3.6.4. Radiculopathy





- 3.7. Sports Injuries
  - 3.7.1. Traumatic
  - 3.7.2. Due to Overuse
- 3.8. Anatomy of the Spine
  - 3.8.1. Cervical
  - 3.8.2. Dorsal:
  - 3.8.3. Lumbar
  - 3.8.4. Pelvis
- 3.9. Biomechanics of the Spine
  - 3.9.1. Cervical
  - 3.9.2. Dorsal:
  - 3.9.3. Lumbar
  - 3.9.4. Pelvis
- 3.10. Spinal Test
  - 3.10.1. Physical Examination of the Cervical Column
  - 3.10.2. Physical Examination of the Dorsal Column:
  - 3.10.3. Physical Examination of the Lumbar Column

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*This will be a key specialization to advance your career"*

# 05 Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





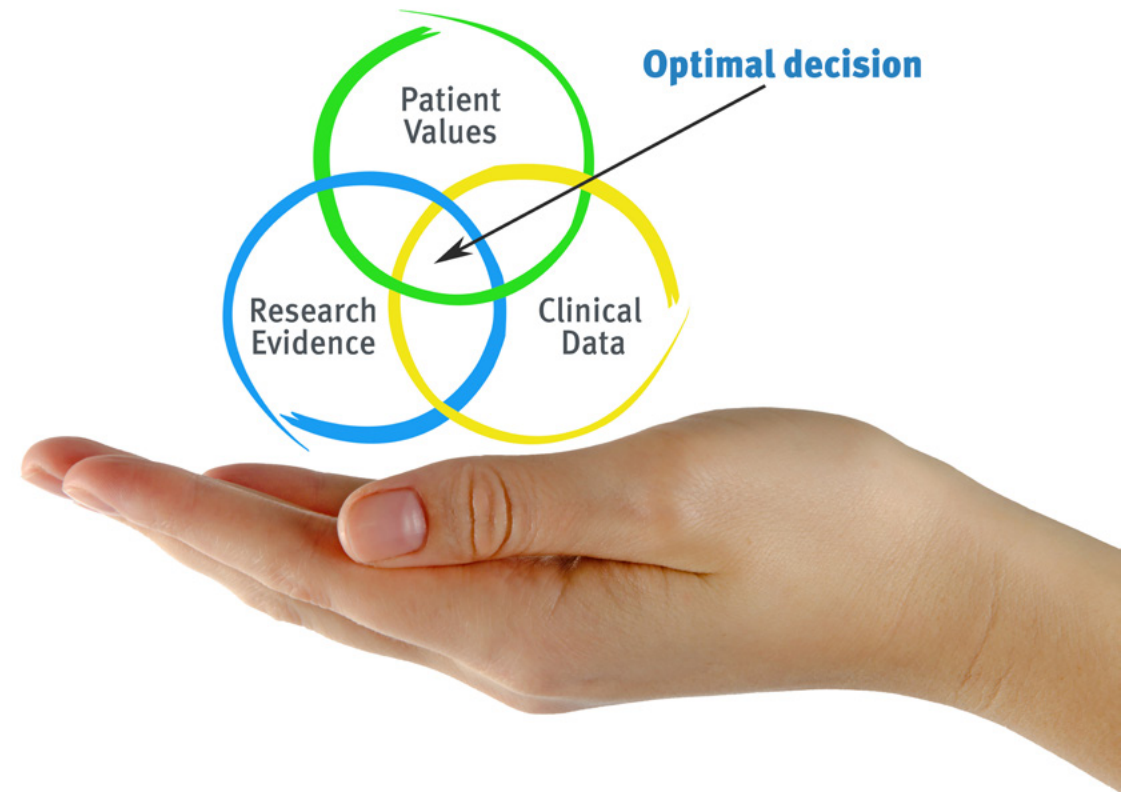
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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Physiotherapists/kinesiologists learn better, faster, and more sustainably over time.

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



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions of professional physiotherapy practice.



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*Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”*

The effectiveness of the method is justified by four fundamental achievements:

1. Physiotherapists/kinesiologists who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the physiotherapist/kinesiologist to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.



*The physiotherapist/kinesiologist will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*

At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology we trained more than 65,000 physiotherapists/kinesiologists with unprecedented success in all clinical specialties, regardless of the workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

*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.*

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.

The overall score obtained by our learning system is 8.01, according to the highest international standards.



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 really 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.



#### Physiotherapy Techniques and Procedures on Video

TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current Physiotherapy techniques and procedures. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch them as many times as you want.



#### 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 unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



#### 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.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### 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.



#### Classes

There is scientific evidence on the usefulness of learning by observing experts. The system known as Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



06

# Certificate

The Postgraduate Diploma in Locomotor System 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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*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This private qualification will allow you to obtain a **Postgraduate Diploma in Locomotor System** 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.

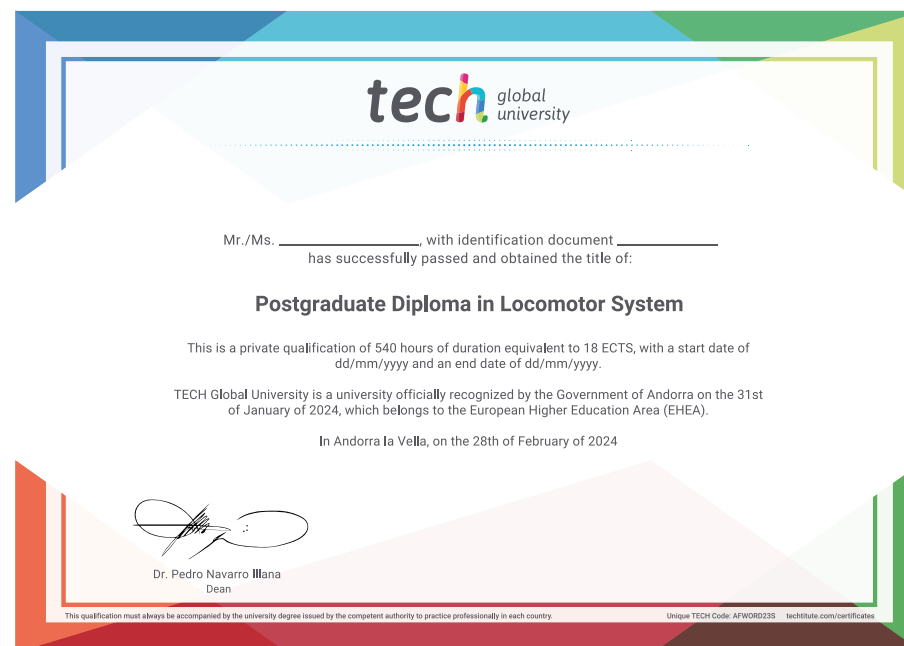
This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Diploma in Locomotor System**

Modality: **online**

Duration: **6 months**

Accreditation: **18 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  
development language  
virtual classroom



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