

# Postgraduate Diploma

## Team Management and Data Analysis in Professional Handball

Endorsed by the NBA





## Postgraduate Diploma Team Management and Data Analysis in Professional Handball

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

Website: [www.techtute.com/in/sports-science/postgraduate-diploma/postgraduate-diploma-team-management-data-analysis-professional-handball](http://www.techtute.com/in/sports-science/postgraduate-diploma/postgraduate-diploma-team-management-data-analysis-professional-handball)

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# 01

# Introduction

New technologies and advances in *Big Data* have transformed the study methodologies in the professional sports world, and more specifically in Handball. In this way, the coaches have more exhaustive quantitative and qualitative results of their team, improving decision making. In this sense, it is essential that future coaches are aware of the advances in this field and enhance their management skills. For this reason, TECH has created this 100% online program that delves into the evolution of this sport, delves into organizational structures, the relationship between the coach and the players, as well as data analysis strategies. All with a rigorous syllabus, taught by athletes with outstanding national and international trajectory in this sport.





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*Increase your handball team management skills through an avant-garde Postgraduate Diploma”*



The high demands of professional handball require a knowledge of the sport that goes beyond the technique and tactics of the game. Nowadays, it is essential that coaches have a deep knowledge of the sport, the structure of the clubs, the relevant role in the training of players and the new technologies that allow them to carry out exhaustive qualitative and quantitative analysis of the teams.

Likewise, in the current role of the coaches, they must possess certain managerial, management and relationship skills among players, managers, media and *sponsors*. An extensive framework of action that includes this Postgraduate Diploma in Team Management and Data Analysis in Professional Handball, taught by professionals of the elite of this sport and specialists in Sciences of Physical Activity and Management of Sports Entities.

It is an intensive program of 450 teaching hours, where the graduates will obtain the most current information on the regulations in this discipline, its continuous evolution, anthropometric, technical, tactical, conditional and psychological factors of the handball player. An academic journey that will also lead them to delve into the detection of talent, in the facet of leadership and management, as well as in the latest research on the use of *Big Data* in Handball.

An academic option that includes, in addition to video summaries of each topic, videos in detail, readings and simulations of case studies that provide greater dynamism to this university program. Undoubtedly, an ideal opportunity to progress in this field through flexible instruction, which favors self-management of time and facilitates access to content 24 hours a day, from any electronic device with an Internet connection.

This **Postgraduate Diploma in Team Management and Data Analysis in Professional Handball** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- ♦ The development of practical cases presented by experts in Handball and Sports Sciences
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where self-assessment can be used to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



*Enroll now in a program that does not require attendance and facilitates self-management of study time"*

“*Get the most current and future vision of professional handball through players with a great national and international prestige*”

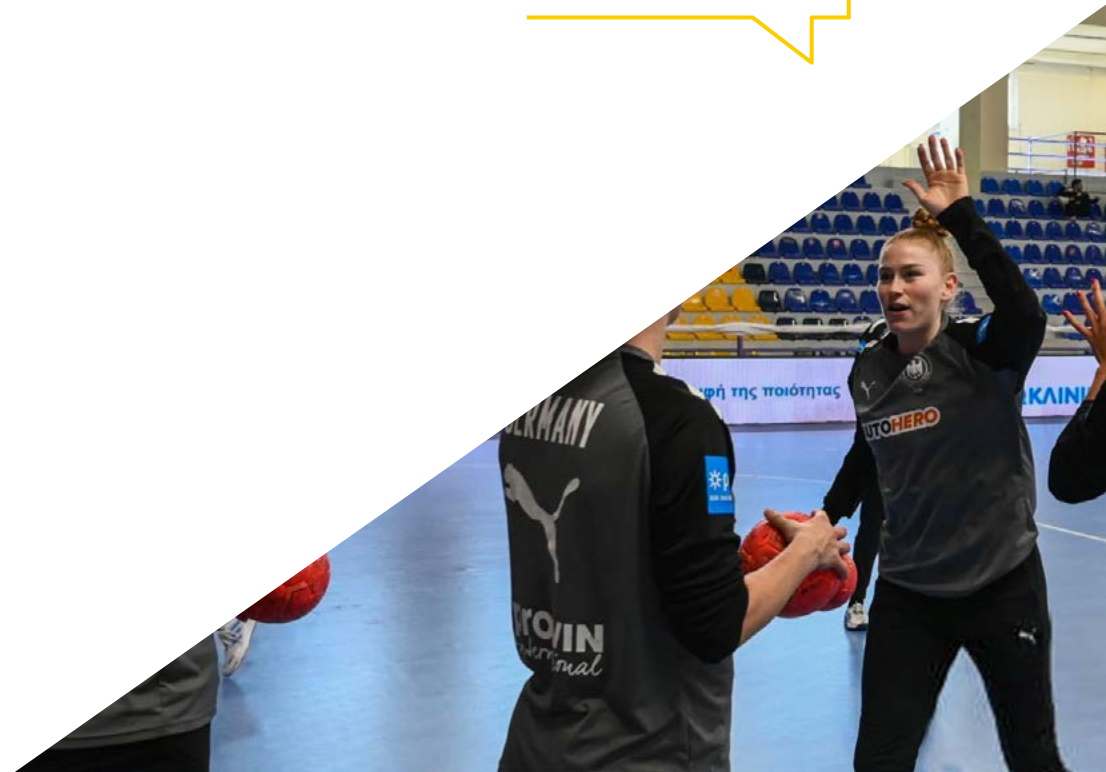
The program's teaching staff includes professionals from the industry who contribute their work experience to this program, as well as renowned specialists from leading societies and prestigious universities.

Its 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 education programmed to learn in real situations.

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

*A program that will allow you to check the evolution of Handball and the new role of the coach within the different formative stages.*

*This Postgraduate Diploma takes you to the latest scientific evidence on the use of Big Data in Handball and research trends.*



# 02 Objectives

The purpose of this Postgraduate Diploma is to provide the graduates with the most rigorous and advanced knowledge about the tools and methodologies used in *Big Data* analysis, as well as the composition and structure of a Handball entity. Two areas that will allow them to progress professionally in this sector and increase their leadership and club management skills. All this will be possible thanks to the theoretical and practical approach of this program and the numerous teaching resources provided by TECH.







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*This program will lead you to implement a real Big Data analysis strategy, oriented to the world of Handball”*



## General Objectives

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- Master the design and control of training at different stages
- Improve the performance of athletes
- Interpret the analysis of data obtained through new technologies
- Incorporate the nutritional planning of the athlete according to their characteristics and playing position
- Know the evolution of the handball game and tactics up to nowadays
- Analyze the multiple factors involved in the training process and in high performance players

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*Enhance relations with the media and sponsors and increase the brand image of your handball club”*





## Specific Objectives

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### Module 1. Performance factors in Handball

- ♦ Have a deep knowledge of the historical background of Handball
- ♦ Master the current regulations of Handball
- ♦ Know in depth the different modalities of Handball
- ♦ Differentiate the stages of training
- ♦ Understand the role of the teacher and the role of the coach in handball training
- ♦ Learn the importance of anthropometric, technical, tactical, conditional and psychological factors of the handball player

### Module 2. Handball team management

- ♦ Know in depth the structure of the sports club and the professional Handball club
- ♦ Structure the relationships with the players, the board, the media and the sponsors
- ♦ Set up a functional strategy for talent detection
- ♦ Take care of and promote good strategies of sporting life

### Module 3. Data Analysis

- ♦ Learn the correct methodology for the collection and analysis of quantitative and qualitative conditional data
- ♦ Study the validation and analysis of descriptive observational data
- ♦ Propose strategies for the collection and analysis of *Big Data*
- ♦ Study what scientific evidence brings to Handball and the latest trends in research and data analysis



03

# Course Management

In its premise of offering students a quality education, TECH has made an excellent selection process of the faculty that integrates this Postgraduate Diploma. Therefore, the graduates will have at their disposal professionals who have been referents in the world of Handball and have academic degrees related to Physical Activity and Sports Sciences and experts in Management and Administration of Sports Entities. A unique opportunity to acquire advanced learning from the best specialists.



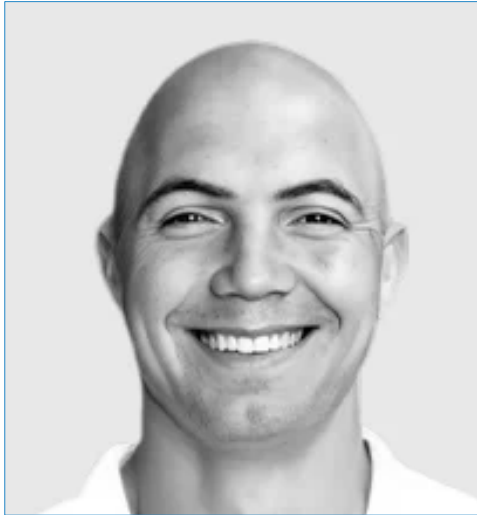


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*Handball elite professionals will be in charge of specializing you in Team Management and data analysis in this sport"*



## Management



### Dr. Lozano, Demetrio

- Former professional handball player
- Professor at the National School of Handball Coaches of the Royal Spanish Handball Federation
- PhD in Physical Activity and Sport Sciences from the University of Lleida
- Degree in Physical Activity and Sport Sciences from the University of Barcelona
- Professional Master's Degree in High Performance by the University of Barcelona
- World Handball Champion with the Spanish National Team in the 2005 World Cup in Tunisia
- Triple Olympic Handball Medalist at Atlanta 1996, Sydney 2000 and Beijing 2008

## Professors

### Dr. Tuquet Higuera, Jaime

- ♦ Professor at the Coaching School of the Aragonese Handball Federation
- ♦ Technical director and coach of BM. La Jota of Zaragoza
- ♦ Regional Handball Coach at the Aragonese Handball Federation (FARBM)
- ♦ Regional coach of Beach Handball in the Aragonese Federation of Handball (FARBM)
- ♦ National Handball Coach
- ♦ Coach monitor of Beach Handball
- ♦ Former Handball player in BM. Aragón
- ♦ PhD in Health Sciences
- ♦ Professional Master's Degree in Teaching
- ♦ Professional Master's Degree in Sports Entities Management and Administration
- ♦ Degree in Physical Activity and Sports Science





# 04

## Structure and Content

Thanks to the effectiveness of the *Relearningsystem*, used by TECH in all its qualifications, students reduce the long hours of study and memorization. So, in a much simpler way, the graduates who take this Postgraduate Diploma in Team Management and Data Analysis in Professional Handball will obtain an intensive and agile learning in just 6 months. For this purpose, they will also have advanced didactic resources available in the Virtual Library, 24 hours a day, 7 days a week.





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*An academic option of 450 teaching hours with the most advanced knowledge in Professional Handball Team Management and the most complete didactic material”*

## Module 1. Performance factors in Handball

- 1.1. Background
  - 1.1.1. Origin of Handball
  - 1.1.2. Modern Handball
- 1.2. Regulations
  - 1.2.1. Fundamental regulatory aspects
  - 1.2.2. Current regulations (Gaming Rules, July 2022-IHF)
  - 1.2.3. Evolution of the regulations
- 1.3. Handball Modalities
  - 1.3.1. Mini-Handball
  - 1.3.2. Beach Handball
  - 1.3.3. Wheelchair Handball
- 1.4. Training stages
  - 1.4.1. Didactics in the training stages
  - 1.4.2. Stages of formation according to J. Antón
  - 1.4.3. Training stages according to Manolo Laguna
- 1.5. Research in Handball
  - 1.5.1. Scientific Research
  - 1.5.2. Scientific research in Handball
  - 1.5.3. From science to training
- 1.6. Anthropometric Factors
  - 1.6.1. Anthropometric factors in training
  - 1.6.2. Anthropometric Factors in High Performance
  - 1.6.3. Talent detection
- 1.7. Technical factors
  - 1.7.1. Technical factors in the scientific literature
  - 1.7.2. Launch analysis
  - 1.7.3. Influence of the step cycle
- 1.8. Tactical factors
  - 1.8.1. Collective tactical factors
  - 1.8.2. Study of decision making
  - 1.8.3. Tactical variations in high performance

- 1.9. Conditional factors
  - 1.9.1. Strength in throwing
  - 1.9.2. Strength in jumping
  - 1.9.3. Physical demands in High Performance
- 1.10. Psychological Factors
  - 1.10.1. Motivation and self-confidence
  - 1.10.2. Activation, stress and anxiety
  - 1.10.3. Leadership

## Module 2. Handball team management

- 2.1. Sports club structure
  - 2.1.1. Management of a sports club
  - 2.1.2. Technical teams
  - 2.1.3. Structuring
- 2.2. Professional club structure
  - 2.2.1. Professional Club Management
  - 2.2.2. Management Teams
  - 2.2.3. Technical teams
- 2.3. The template
  - 2.3.1. Composition
  - 2.3.2. Training or competitive needs
  - 2.3.3. Selection Criteria
- 2.4. Relations with players
  - 2.4.1. Individuality at the service of the team
  - 2.4.2. Career management
  - 2.4.3. Coaching individual
- 2.5. Sports management models
  - 2.5.1. Management models
  - 2.5.2. Specific Training
  - 2.5.3. Resources Management
- 2.6. Advertising and Marketing
  - 2.6.1. Management of the advertising plan
  - 2.6.2. Marketing plan management
  - 2.6.3. Use of social networks



- 2.7. Relations with *sponsors*
  - 2.7.1. Management of small *sponsors*
  - 2.7.2. Management of medium *sponsors*
  - 2.7.3. Management of large *sponsors*
- 2.8. Talent detection
  - 2.8.1. Assessment tests
  - 2.8.2. Recruitment programs
  - 2.8.3. Talent Management
- 2.9. Strategies of sporting life
  - 2.9.1. Sports career management
  - 2.9.2. Short-, medium- and long-term objectives
  - 2.9.3. Setbacks and strategy changes
- 2.10. Future Perspectives
  - 2.10.1. The reality of Handball today
  - 2.10.2. Change Management
  - 2.10.3. Future Perspectives

### Module 3. Data Analysis

- 3.1. Quantitative conditional data collection
  - 3.1.1. Traditional assessment tests
  - 3.1.2. Current valuation tools and instruments
  - 3.1.3. New Trends
- 3.2. Quantitative conditional data analysis
  - 3.2.1. Descriptive analysis
  - 3.2.2. Inferential analysis
  - 3.2.3. Practical Applications
- 3.3. Qualitative conditional data collection
  - 3.3.1. Traditional assessment tests
  - 3.3.2. Current valuation tools and instruments
  - 3.3.3. New Trends
- 3.4. Qualitative conditional data analysis
  - 3.4.1. Descriptive analysis
  - 3.4.2. Inferential analysis
  - 3.4.3. Practical Applications

- 3.5. Contribution of scientific evidence to strength training
  - 3.5.1. Scientific Evidence
  - 3.5.2. Limitations
  - 3.5.3. Practical Applications
- 3.6. Contribution of scientific evidence to speed training
  - 3.6.1. Scientific Evidence
  - 3.6.2. Limitations
  - 3.6.3. Practical Applications
- 3.7. Contribution of scientific evidence to resistance trainin.
  - 3.7.1. Scientific Evidence
  - 3.7.2. Limitations
  - 3.7.3. Practical Applications
- 3.8. Contribution of scientific evidence to technique training
  - 3.8.1. Scientific Evidence
  - 3.8.2. Limitations
  - 3.8.3. Practical Applications
- 3.9. Contribution of scientific evidence to tactical training
  - 3.9.1. Scientific Evidence
  - 3.9.2. Limitations
  - 3.9.3. Practical Applications
- 3.10. Big Data
  - 3.10.1. *Big Data* reality
  - 3.10.2. *Big Data* analysis
  - 3.10.3. Practical Applications



*Thanks to this university program you will be able to create talent recruitment programs, where you will be able to sign the great players of the future of Handball"*

# 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.



“

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

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



## Relearning Methodology

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

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

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

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

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



In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

With this methodology, we have trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, markets, and financial instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

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

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

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



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



#### Study Material

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

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



#### Classes

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

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



#### Practising Skills and Abilities

They will carry out activities to develop specific 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.





#### 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

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.





06

# Certificate

The Postgraduate Diploma in Team Management and Data Analysis in Professional Handball guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Technological University.







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*Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”*

This **Postgraduate Diploma in Team Management and Data Analysis in Professional Handball** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Diploma** issued by **TECH Technological University** via tracked delivery\*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Diploma in Team Management and Data Analysis in Professional Handball**

Official N° of Hours: **450 h.**

**Endorsed by the NBA**



\*Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.



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