

# Postgraduate Certificate New Trends in Sports: Big Data & Sport

Endorsed by the NBA



**tech** technological  
university



## Postgraduate Certificate

### New Trends in Sports: Big Data & Sport

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

Website: [www.techtute.com/in/sports-science/postgraduate-certificate/new-trends-sports-big-data-sport](http://www.techtute.com/in/sports-science/postgraduate-certificate/new-trends-sports-big-data-sport)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Course Management

---

*p. 12*

04

Structure and Content

---

*p. 16*

05

Methodology

---

*p. 20*

06

Certificate

---

*p. 28*

# 01

# Introduction

Innovation and technology applied to sports has led to trends such as e-sports and data analysis. You will learn the latest developments in the sector from professionals with extensive experience in the sector.

A unique program, essential to stand out in a sector with high demand for professionals.





“

*This program offers training in simulated environments, which provides an immersive education experience designed to learn in real life situations”*

Big Data and its dissemination are growing by leaps and bounds. Sports is one of those scenarios in which the processing of big data is becoming necessary, even essential in professional environments. Therefore, in this program you will go into the essence of Big Data, not only will you work on what, you will also go into its methodology. What phases and strategies have to be taken before taking the step of working with huge amounts of information. For this, it is necessary to know what is the current and real situation of Big Data and how Data Scientists are entering every day in this exciting world. Therefore, the main providers of sports data will be known and analyzed, the display of reports and infographics and the tools that will allow to work with firm step this science will be deepened. It will culminate with an exciting lesson focused on Communication applied to Big Data.

There are many more trends that exist today in Sports, however, due to their current importance, emphasis will be placed on these two areas, Big Data and e-sports, also including the basic legal and regulatory aspects of the latter. The student will obtain a basic knowledge of both sectors and their implication in sports management. The teaching team of this specialization has made a careful selection of each of the topics of this program to offer the student a study opportunity as complete as possible and always linked to current events.

Therefore, TECH has set out to create contents of the highest teaching and educational quality that will turn students into successful professionals, following the highest quality standards in teaching at an international level. Therefore, we offer you this program with a rich content that will help you reach the elite in New Trends in Sport: Big Data & Sport.

In addition, as it is an online course, the student is not conditioned by fixed schedules or the need to move to another physical location, but can access the contents at any time of the day, balancing their work or personal life with their academic life.

This **Postgraduate Certificate in New Trends in Sports: Big Data & Sport** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ◆ The development of numerous practical case studies presented by specialists in New Trends in Sports: Big Data & Sport
- ◆ 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 decision making
- ◆ Special emphasis on innovative methodologies in personal training
- ◆ 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



*Immerse yourself in this Postgraduate Certificate and improve your skills in New Trends in Sport: Big Data & Sport"*

“

*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 TECH Technological University”*

Its teaching staff includes professionals belonging to the field of sports sciences, who bring to this program the experience of their work, as well as recognized specialists from leading companies 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 education programmed to learn 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. To do so, the professional will be assisted by an innovative interactive video system created by recognized experts in New Trends in Sport: Big Data & Sport, and with great experience.

*This Postgraduate Certificate is a must for professionals who want to achieve success in the world of sports performance.*

*The most up-to-date academic program taught by extraordinary teachers experienced in the world of sports and academics.*



# 02 Objectives

The main objective of this program is the development of theoretical and practical learning, so that the sports science professional can master in a practical and rigorous way the new developments in New Trends in Sport. Big Data & Sport.







“

*Our goal is to achieve academic excellence and help you achieve professional success. Don't hesitate any longer and join us”*



## General Objectives

---

- ◆ Provide knowledge about the environment and the sports market
- ◆ Train professionals prepared to work in the sports industry
- ◆ Become a successful sports manager
- ◆ Train managers, leaders and future managers of sports entities
- ◆ Gain knowledge about the global market, with practical experiences of the professionals who are part of the faculty
- ◆ Understand that sport is an economic and business sector different from any other sector, with its specificities and particularities





## Specific Objectives

---

- ◆ Understand the new forms of sports business, as well as the most innovative techniques
- ◆ Analyze results and appropriate new technologies
- ◆ Identify new trends in the world of sports, as well as their advances in technology

“

*The world of sports requires prepared professionals and we give you the keys to position yourself among the professional elite"*

03

# Course Management

Sport is a transversal discipline that in recent years has grown both nationally and internationally, becoming an economic sector with a great impact on the GDP.

The teaching team, experts in Sports Management, has a wide prestige in the profession and are professionals with years of teaching experience who have joined forces to help you give a boost to your profession. To this end, they have developed this Postgraduate Certificate with recent updates on the subject that will allow you to train and increase your skills in this sector.





*Learn from the best professionals  
and become a successful  
professional yourself"*

## Management



### Ms. Bellver Alonso, Reyes

- ♦ Sports Law Attorney and Founding Partner at Bellver Sports-Legal Boutique
- ♦ Founder and president of the Leadership Woman Football platform
- ♦ Founding member and president of the Sports Law Association of Madrid
- ♦ Coordinator of the international association WISLaw *Women in Sports Law*, in Spain
- ♦ Member and founding member of the Spanish Association for Ethical Quality in Sport
- ♦ Degree in Law with a specialization in European Union Law from CEU San Pablo University
- ♦ Master's Degree in International Relations from CEU San Pablo University, Madrid
- ♦ Master's Degree in Business Taxation by ICADE
- ♦ Master's Degree in Sports Law from the University of Lleida
- ♦ Miki Roqué "Peace through Sport" Award for her associative work, training and improvement of the sports sector, especially in gender issues and defence of women in sport
- ♦ Certified by FIFA through its FIFA Female Leadership Development Programme (FIFA Female Leadership Development Programme)
- ♦ Included in the prestigious international list Who's Who Legal (WWL: Sports & Entertainment), as one of the leading lawyers in the Sports Law sector



## Professors

### Ms. Carmona Ramos, Sara

- ◆ Host of the Analytics and *Big Data* section of the program "El Día Después" on Movistar Plus
- ◆ Academic Director of the Master's Degree in Sports Marketing, Digital Environments and eSports at the San Antonio Catholic University of Murcia
- ◆ Sports coverage of La Liga matches for the Atresmedia group
- ◆ Host of the live Sports Statistics and *Big Data* section of "Deportes Valladolid" on Castilla y León TV
- ◆ Graduate in Journalism from the University of Valladolid
- ◆ Expert in Sports Data Analytics and *Big Data* at the University of Valladolid

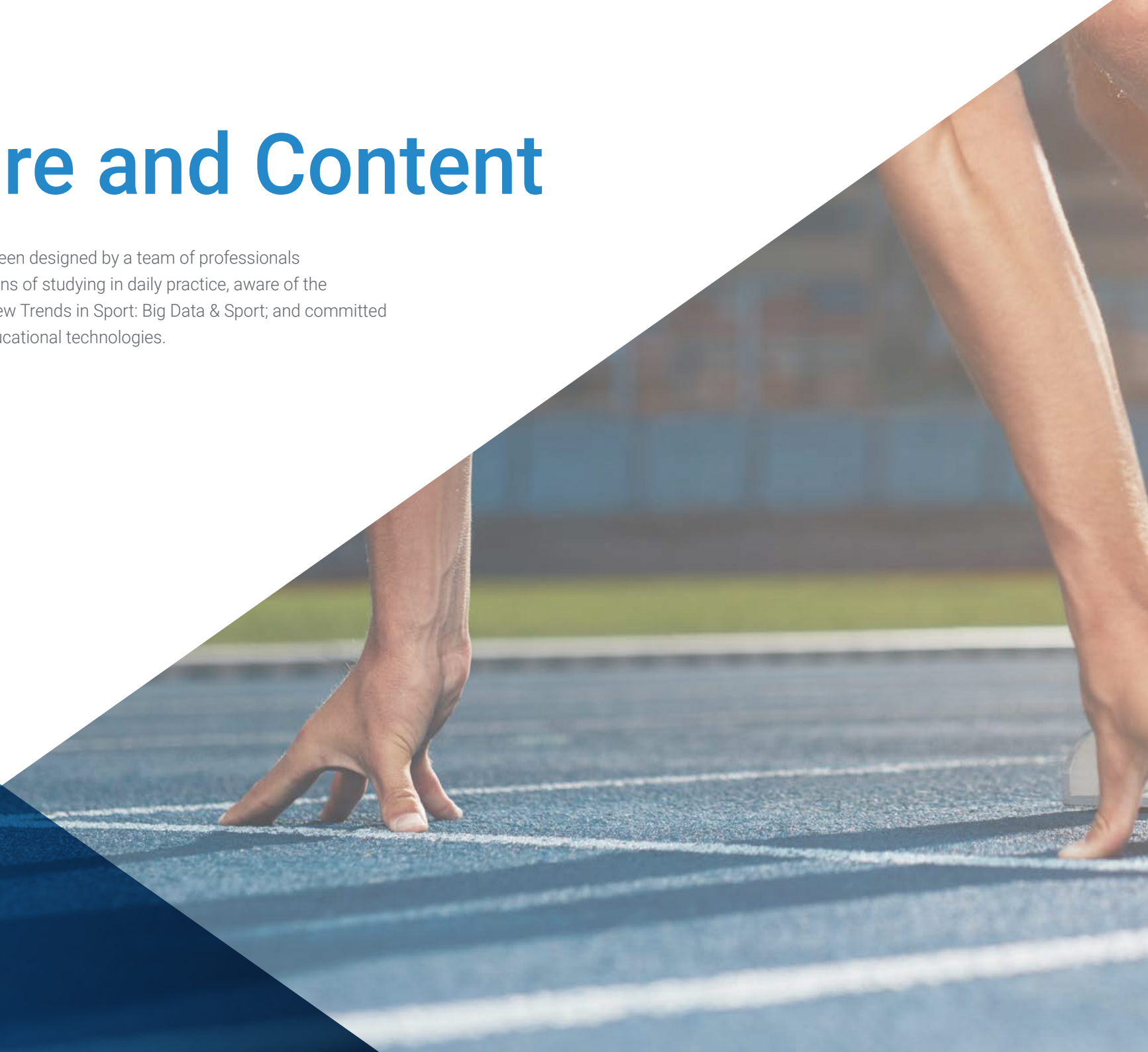
“

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

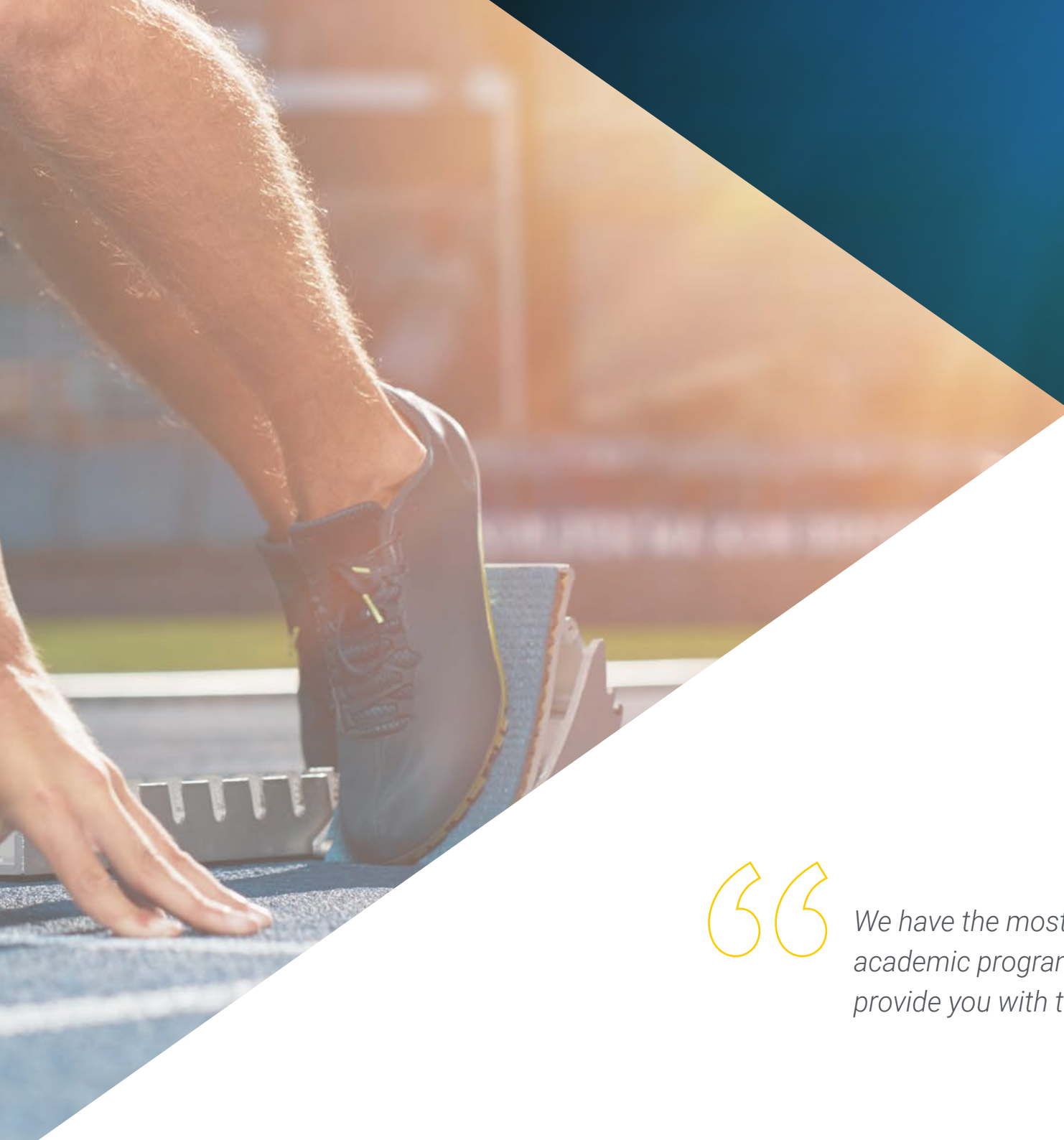
04

# Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of studying in daily practice, aware of the relevance of the specialization in New Trends in Sport: Big Data & Sport; and committed to quality teaching through new educational technologies.







“

*We have the most complete and up-to-date academic program in the market. We want to provide you with the best program”*

## Module 1. New Trends in Sports: Big Data & Sports

- 1.1. Introduction to the Use of Big Data in Sport. Current Links and Scenarios
- 1.2. Data Analysis Methodology. Phases and Strategies
- 1.3. Open Data Providers and Sources
- 1.4. Payment Data Providers and Sources
- 1.5. Reports and Infographics: Vital Importance of the Sample
- 1.6. Data Processing Tools
- 1.7. Communication Applied to Big Data. In Search of the Excellence of the Material and its Sample
- 1.8. Introduction to e-Sports
- 1.9. e-Sports Management
- 1.10. Legal and Regulatory Aspects of e-Sports





“

*A unique, key, and decisive educational experience to boost your professional development”*

# 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.





“

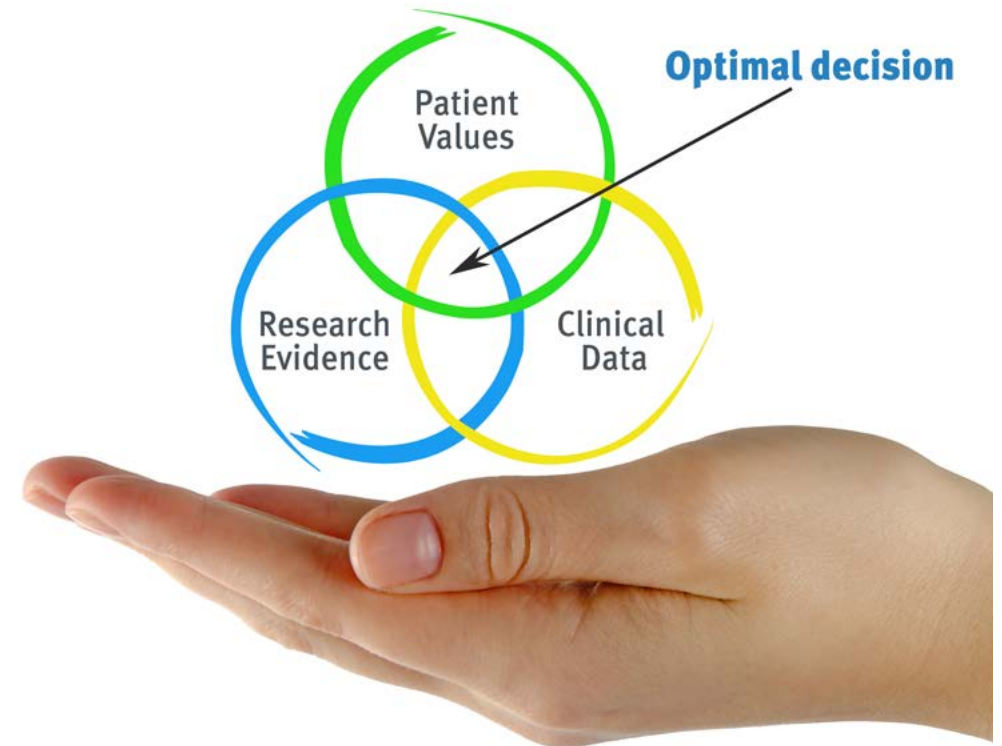
*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

### 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.



*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.

## 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 Certificate in New Trends in Sports: Big Data & Sport guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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

This **Postgraduate Certificate in New Trends in Sports: Big Data & Sport** 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 Certificate** issued by **TECH Technological University** via tracked delivery\*.

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

Title: **Postgraduate Certificate in New Trends in Sports: Big Data & Sport**

Official N° of Hours: **150 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.

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



**Postgraduate Certificate**  
New Trends in Sports:  
Big Data & Sport

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

# Postgraduate Certificate

## New Trends in Sports: Big Data & Sport

Endorsed by the NBA

