

TECHNOLOGIES AND SCIENCE APPLIED TO SPORT

(Lucian Stan, 4months Aug-Nov 2020, Barca Innovation Hub Universitas)

<https://barcainnovationhub.com/product/certificate-in-technology-and-science-applied-to-sport/>

START DATE	LEVEL	DELIVERY MODE
10/08/2020	Advanced	Online-based
DURATION	AVERAGE DEDICATION	DELIVERED IN
4 months	6/8 weekly hours	English

BUY NOW

EXPERT ADVISORS

CERTIFICATE



Xavier Reche

Tracking and monitoring sports scientist at FC Barcelona.



Angel Ric

Phd in Sport Science. Football professor at INEFC. Complex Systems in Sport Research Group. MSc Team Sports - FCB. UEFA PRO Licence.



Raúl Peláez

Head of Sports Technology, Innovation & Analysis at FC Barcelona.





Martí Casals
Researcher at the Center for Studies in Sports and Physical Activity (CEEAF) at the University of Vic - Central University of Catalonia (UVic-UCC). Sports statistician and collaborator in Barça Innovation Hub - Universitas.



Sam Robertson
Sports Scientist & Sports Analyst. Leader of the Sports Performance & Business program within the Institute for Health and Sport at Victoria University.

PROFESSORS:



Edu Pons (Course: "External Load Monitoring in Team Sports through EPTS")

Physical Trainer of FC Barcelona's First Team.



Andrés Martín García (Course: "External Load Monitoring in Team Sports through EPTS")

Physical Trainer of the FC Barcelona's Juvenil A team.



Xavier Linde (Course: "External Load Monitoring in Team Sports through EPTS")

Physiotherapist and return-to-play coach for FC Barcelona's First Team.



José Pino Ortega (Course: "External Load Monitoring in Team Sports through EPTS")

Professor at Murcia University. Co-founder and Sports Manager at RealTrack Systems.



Sergi Bellmunt Guasch (Course: "External Load Monitoring in Team Sports through EPTS")

Sport scientist at RealTrack Systems.



José María Fernández Ponce (Course: "Sports Analytics - Essential Concepts")

Professor of the University of Seville. Member of the Department of Statistics and Operational Research and researcher of the group "Métodos Cuantitativos en Evaluación, FQM-328" of the the Andalusian Regional Government.

=

This certificate is aimed at those sport and health professionals whose main objective is oriented towards knowledge and learning about the foundations that make up the use, understanding and application of technology in the different fields that emerge within sport. The approach offered starts from a quantitative and qualitative perspective that is linked to data collection and decision making according to individual and collective needs that arise from sports interaction in shared spaces. In this sense, the participant will find the theoretical support and practical implications, coming from the current scientific evidence, in accordance with the reality of the field of practice from a comprehensive viewpoint. In this way, during the training process, the participant will be able to understand, structure and design training micro-cycles based on the contextual needs that arise in contemporary sport.

COURSES' SYLLABUS

I. External Load Monitoring in Team Sports through EPTS (Aug2020)

MODULE 1: What is EPTS?

MODULE 2: Understanding what EPTS registers

MODULE 3: FCB methodology for external load tracking and monitoring.

MODULE 4: External load tracking and monitoring in "return to play".

EXPERT ADVISOR: Xavier Reche, in collaboration with Edu Pons, Andrés Martín García, Xavier Linde, José Pino Ortega and Sergi Bellmunt Guasch.

II. Video analysis (Sept2020)

MODULE 1: Characterization of Video Analysis

MODULE 2: Control Variables of Video Analysis

MODULE 3: Use of the Video Analysis in the programming of the training process

MODULE 4: Integrating reading

EXPERT ADVISOR: Angel Ric.

III. Technology in Sport (Oct20)

MODULE 1: Why technology in sport?

MODULE 2: Evaluating the value of technology

MODULE 3: Harnessing technology for organizational operations and decision-making

MODULE 4: Maximising value from technology in sport

EXPERT ADVISOR: Sam Robertson.

IV. Sports Analytics - Essential Concepts (Nov2020)

MODULE 1: History and Evolution of Sports Analytics.

MODULE 2: Learning based on a real problem in sport (ABP) in the phenomenon of Sports Analytics (I)

MODULE 3: Learning based on a real problem in sport (ABP) in the phenomenon of Sports Analytics (II)

MODULE 4: Learning based on a real problem in sport (ABP) in the phenomenon of Sports Analytics (III)

EXPERT ADVISOR: Martí Casals, in collaboration with José María Fernández Ponce.



**BARÇA
INNOVATION HUB**
Universitas



This is to certify that
Lucian Stan
successfully participated in the course **EXTERNAL LOAD MONITORING IN TEAM SPORTS THROUGH EPTS (online)**
facilitated by **Barça Innovation Hub – Universitas, FC Barcelona's platform for knowledge and innovation.**

August 2020

Javier Sobrino
Strategic Planning and
Innovation Director

