



भारतीय प्रौद्योगिकी संस्थान दिल्ली  
Indian Institute of Technology Delhi



University  
of Exeter



Presents

# SPRING SCHOOL IN SPORTS TECHNOLOGY, MACHINE LEARNING AND DATA ANALYTICS 2026

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Limited Seats Available



IIT Delhi, Hauz Khas Campus, New Delhi, India, 110016



[www.riselab.iitd.ac.in](http://www.riselab.iitd.ac.in)



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## SPRING SCHOOL IN SPORTS TECHNOLOGY, MACHINE LEARNING AND DATA ANALYTICS 2026

The event will be an intensive in person training and upskilling opportunity for sports coaches, physios, fitness professionals, Sports Scientists and Entrepreneurs who would like to learn about advanced technological and analytics tools for sporting performance assessment and enhancement through interventions in nutrition, physiology, biomechanics and VR. The event will feature top faculty from IIT Delhi, international faculty from University of Exeter and scientists and practitioners from Sports Authority of India.



### VENUE AND DATE



IIT Delhi, Hauz Khas Campus



Starting From 2<sup>nd</sup> March, 2026

### CONNECT WITH US



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# PROGRAMME CONTENTS

<b>Foundations of Sports Technology &amp; Sensing</b>	<b>Day 1 - 2<sup>nd</sup> March, 2026</b>
<ul style="list-style-type: none"><li><b>Welcome and Inaugural Session:</b> Opening remarks by senior leadership and programme coordinators from Indian Institute of Technology Delhi and University of Exeter</li><li><b>Keynote Lecture:</b> Pushing the Boundaries: Incorporating Technology in Sports - Delivered by leadership from Sports Authority of India</li><li><b>Exercise Physiology and Role of Sensing:</b> Academic perspectives on physiological monitoring and sensing technologies</li><li><b>Sensing Muscle Function:</b> EMG-based assessment and neuromuscular function analysis</li><li><b>Application in Practice – GPS Technologies:</b> Real-world applications of GPS data analytics in sports performance</li></ul>	
<b>Nutrition, Biosensing &amp; Inclusive Sports Technology</b>	<b>Day 2 - 3<sup>rd</sup> March, 2026</b>
<ul style="list-style-type: none"><li><b>Evidence and Technology Based Approaches to Sports Nutrition:</b> Scientific frameworks for nutrition interventions supported by data and performance analytics.</li><li><b>Biosensing Based Insights into Exercise and Heat Performance:</b> Understanding physiological responses to exercise and environmental stress using sensing technologies.</li><li><b>Role of Technology in Paraports Performance Assessment:</b> Application of sports technology for performance assessment, classification, and athlete development in paraports.</li><li><b>Best Practices in Technology Integration:</b> Practitioner-led insights into the use of GPS and performance monitoring technologies in elite sports environments.</li></ul>	
<b>Academic Networking &amp; Engagement</b>	<b>Day 3 - 4<sup>th</sup> March, 2026</b>
<ul style="list-style-type: none"><li><b>No formal academic sessions (Holi Festival Holiday)</b></li><li><b>Networking Dinner and Professional Interaction at IIT Delhi</b></li></ul>	
<b>Wearables, VR &amp; Cognitive Performance</b>	<b>Day 4 - 5<sup>th</sup> March, 2026</b>
<ul style="list-style-type: none"><li><b>Sports Wearables and Neural Technologies:</b> Applications of EEG and fNIRS for monitoring neural and cognitive aspects of sports performance.</li><li><b>Measuring Mental States in Real World Environments:</b> Assessing psychological and cognitive load in applied sports settings.</li><li><b>Augmented Reality (AR) and Virtual Reality (VR) in Sports:</b> Use of immersive technologies for training, skill development, and performance analysis.</li><li><b>Hands on VR Demonstration:</b> Practical exposure to VR environment design and basic simulation development.</li><li><b>Performance Psychology and Technology Based Interventions:</b> Technology enabled approaches to athlete stress management and mental performance.</li><li><b>Understanding the Role of Simulation in Sports:</b> Simulation based models for training, decision making, and performance optimisation.</li></ul>	
<b>Wearables, VR &amp; Cognitive Performance</b>	<b>Day 5 - 6<sup>th</sup> March, 2026</b>
<ul style="list-style-type: none"><li><b>Introduction to Artificial Intelligence and Machine Learning in Sports:</b> Foundational concepts and applications of AI and ML in sports performance analysis.</li><li><b>Applied Data Science in Sports:</b> Data-driven approaches for analysing performance metrics and supporting evidence-based decisions.</li><li><b>Hands on Laboratory Demonstrations:</b><ol style="list-style-type: none"><li>Motion capture and biomechanical modelling for sports performance analysis</li><li>Wireless EMG data processing, muscle oximetry, and biomechanics assessment using industry-grade systems</li></ol></li><li><b>Programme Conclusion and Academic Wrap up:</b> Summary of key learning outcomes and closing academic discussion.</li></ul>	

 [DOWNLOAD FULL TIME TABLE](#)

## SPEAKERS AND FACULTIES



**Brig. Bibhu Kalyan Nayak**  
Director, NCSSR, SAI



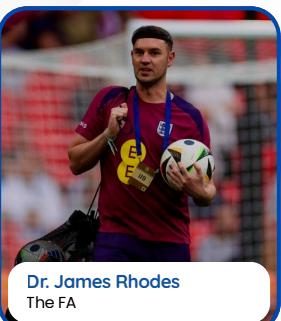
**Dr. Subhra Chatterjee**  
NCSSR, SAI



**Dr. Shatarupa Chakraborty**  
NCSSR, SAI



**Dr. Manish Rana**  
Paralympic Committee of India



**Dr. James Rhodes**  
The FA



**Prof. Dominic Farris**  
University of Exeter



**Dr. Tim Podlogar**  
University of Exeter



**Prof. Joanna Bowtell**  
University of Exeter



**Dr. Tom Elliott**  
University of Exeter



**Dr Chris Byrne**  
University of Exeter



**Prof. Mark Wilson**  
University of Exeter



**Prof. Biswarup Mukherjee**  
IIT Delhi



**Prof. Deepak Joshi**  
IIT Delhi



**Prof. Shahid Malik**  
IIT Delhi



**Prof. Kaushik Mukherjee**  
IIT Delhi



**Prof. K.K Deepak**  
IIT Delhi

## TOP INTERNATIONAL FACULTIES AND SCIENTISTS FROM



**भारतीय प्रौद्योगिकी संस्थान दिल्ली**  
**Indian Institute of Technology Delhi**

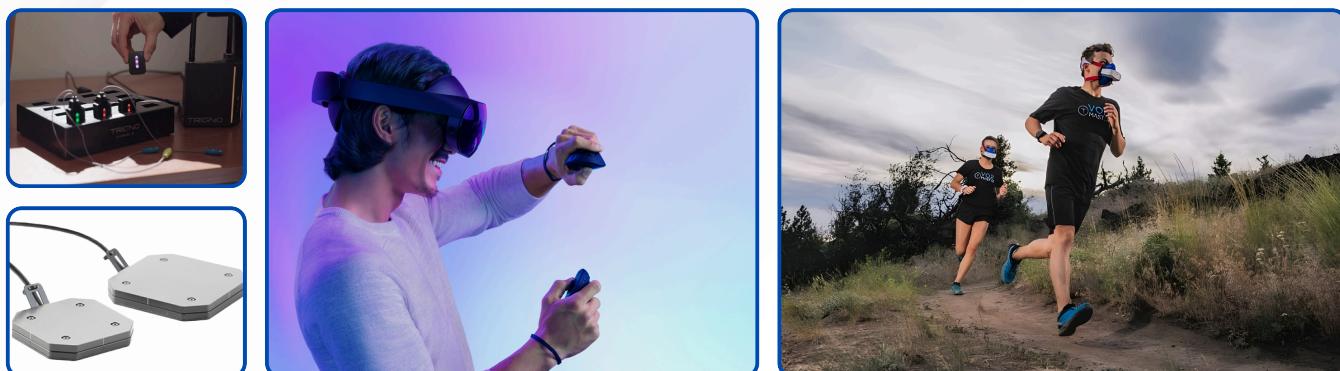


**University  
of Exeter**



## HANDS ON & TECHNOLOGY DEMONSTRATIONS

Spring School in Sports Technology, Machine Learning and Data Analytics 2026 emphasises experiential learning through direct engagement with advanced sports technologies used in contemporary research and high-performance environments. **Participants will take part in guided hands-on demonstrations covering motion capture and biomechanical modelling, wireless EMG and neuromuscular assessment, wearable sensor technologies, virtual reality-based simulation training, and data analytics and machine learning workflows.** These sessions are designed to enable participants to move beyond theoretical understanding and develop practical insight into technology-driven approaches for sports performance assessment and enhancement.



## TECH DEMONSTRATION AND SPONSORS



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## BENEFITS TO PARTICIPANTS

### Certification from Leading Institutions



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### Learn From Top Indian Institute (NIRF Rank 2)

IIT Delhi is ranked NIRF 2, reflecting national leadership in engineering, research, and interdisciplinary innovation.

### Industry Sponsored Technology Demonstrations

Hands on exposure through live demonstrations supported by leading sports technology companies such as Nokov, Delsys and more.

### Collaborate with World Leading Sports Science University

The University of Exeter is 155th in the QS World University Rankings 2026 and 170th in the THE World Rankings 2026 and Top 5 in the UK for Sports Science, reflecting strong international standing in teaching and research.

### Learn Real World Tools Used in Elite Sports & Research

Practical engagement with motion capture systems, wireless EMG, muscle oximetry, wearable sensors, data analytics and machine learning tools used in high performance sports environments.



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