Spring School in Sports Technology, Machine Learning & Data Science

Event Schedule

Day	Time	Session	Speaker	Mode	Venue
Day1 (March 2)	09:30 – 10:00 A.M	Welcome Note	Dean, International Relations, IIT Delhi	In-person	Senate Room, IIT Delhi
			Prof. Biswarup Mukherjee, IIT Delhi	In-person	Senate Room, IIT Delhi
			Prof. Dominic Farris, University of Exeter	In-person	Senate Room, IIT Delhi
	10:00 – 10:30 A.M	Keynote lecture: Pushing the Boundaries: Incorporating Technology in Sports	Brig. (Dr.) Bibhu Kalyan Nayak, Director, NCSSR, SAI	In-person	Senate Room, IIT Delhi
	10:30 – 10:45 A.M	Bio - Break			
	10:45 – 12:45 P.M	Exercise Physiology and Role of Sensing	Dr. Subhra Chatterjee, NCSSR, SAI	In-person	Senate Room, IIT Delhi
			Prof. K.K Deepak, IIT Delhi	In-person	Senate Room, IIT Delhi
			Prof. Tim Podlogar, University of Exeter	Online	Senate Room, IIT Delhi
	12:45 – 2:15 P.M	Lunch break			
	02:15– 03:45 P.M	Sensing Muscle Function	Prof. Biswarup Mukherjee, CBME, IIT Delhi	In-person	Senate Room, IIT Delhi
			Prof. Dominic Farris, PHSS, University of Exeter	In-person	Senate Room, IIT Delhi
	03.45 - 04.00 P.M	Bio - Break			
	04.00 - 05.30 P.M	Application in practice - GPS	Tom Elliott data analyst UoE	Online	Senate Room, IIT Delhi
Day 2 (March 3)	09:30 – 11:00 A.M	Evidence and Technology-based Approach to Sports Nutrition	Prof. Joanna Bowtell, PHSS, University of Exeter	In-person	Senate Room, IIT Delhi
	11:00 – 11:15 A.M	Bio - Break			
	11:15 – 12.45 P.M	Biosensing-based insights into exercise and physical performance in the heat	Prof. Chris Byrne, PHSS, University of Exeter	In-person	Senate Room, IIT Delhi
	12:45 – 2:15 P.M	Lunch break			
	02:15 – 03:45 P.M	Role of Technology for Parasports	Mr. Manish Rana, Head, Sports Development and Performance, Paralympic Committee of India	In-person	Senate Room, IIT Delhi
	03.45 - 04.00 P.M	Bio - Break			
	04:00 – 5:30 P.M	Sports technologies in practice	Irish Sailing Team– GPS-technologies for sports	Online	Senate Room, IIT Delhi
			Durva Vahiya, Performance Manager, Reliance Foundation Youth Sports	In-person	Senate Room, IIT Delhi
Day 3 (March 4)	No events scheduled (Holi) Dinner and networking event at IIT Delhi				
Day 4 (March 5)	09:30 – 11:00 A.M	Sports Wearables – Neural technologies, EEG and fNIRs	Prof. Deepak Joshi, CBME, IIT Delhi	In-person	Senate Room, IIT Delhi
			Prof. Shahid Malik, CeNSE, IIT Delhi	In-person	Senate Room, IIT Delhi
		Measuring mental states in the wild	Prof. Mark Wilson, University of Exeter	In-person	Senate Room, IIT Delhi
	11:00 – 11:15 A.M	Bio - Break			

	11:15 – 12.45 P.M	AR and VR technologies for sports	Prof. Mark Wilson, PHSS, University of Exeter	In-person	Senate Room, IIT Delhi
		Hands on Demonstration of VR – Environment design, basic game design	Prof. Biswarup Mukherjee, IIT Delhi	In-person	Senate Room, IIT Delhi
			Mr. Sankar, IISC, Bangalore (TA)	In-person	Senate Room, IIT Delhi
			Mr.Manikandan, IIT Delhi (TA)	In-person	Senate Room, IIT Delhi
	12:45 – 2:15 P.M	Lunch break			
	02:15 – 03:45 P.M	Performance Psychology and Technology Interventions in Athlete Stress Management	Prof. Mark Wilson, PHSS, University of Exeter	In-person	Senate Room, IIT Delhi
			Dr. Shatarupa Chakraborty, High Performance Analyst, NCSSR, SAI	In-person	Senate Room, IIT Delhi
	03.45 - 04.00 P.M	Bio - Break			
	04:00 – 05:30 P.M	Understanding the Role of Simulation in Sports	Prof. Kaushik Mukherjee, ME, IIT Delhi	In-person	Senate Room, IIT Delhi
Day 5 (March 6)	09:30 – 11:00 A.M	Introduction to AI and ML and Application in Sports	Prof. Biswarup Mukherjee, CBME, IIT Delhi	In-person	Senate Room, IIT Delhi
			Prof. Deepak Joshi, CBME, IIT Delhi	In-person	Senate Room, IIT Delhi
	11:00 – 11:15 A.M	Bio - Break			
	11:15 – 12.45 P.M	Applied Data Science in Sports	James Rhodes, Data Scientist, The FA	Online	Senate Room, IIT Delhi
	12:45 – 2:00 P.M	Lunch break			
	2:00PM– 03.30 P.M	Translating ideas to action: Strength and conditioning & Female athlete performance	Dr. Sahana Gopal, Founder, UNRACK	In-person	LHC, IIT Delhi
		Hands-on Demo – Motion capture and Modelling in Sports	Sports Biomechanics Lab, IIT Delhi (Sponsored by Nokov)	In-person	
	03:30 – 03:45 P.M	Bio - Break			
	03:45PM – 05:15 P.M	Hands-on Demo – Wireless EMG data processing, muscle oximetry, biomechanics	Delsys EMG system , Vo2 Master, MOXY demonstration	In-person	LHC, IIT Delhi
	05:15 – 06:15 P.M	Conclusion and wrap-up	Prof. Biswarup Mukherjee	In-person	LHC, IIT Delhi
			Prof. Dominic Farris	In-person	