



SCDT – FlexE Centre Webinar Series

The webinars aim to bring together researchers in Flexible Electronics and allied areas from across India (and other countries) on a single platform to promote professional interaction.

Abstract of the Webinar

The healthcare system is shifting from a hospital-centered to a patient-centered model, driven by the rise of chronic diseases, ageing populations, increasing healthcare costs, and the COVID-19 pandemic. In this transition, wearable sensors have become essential for continuous health monitoring. Among them, photonic wearable devices stand out for their customized system with high sensitivity, durability, and multiplexed sensing capabilities. By integrating modal interferometers with flexible materials, nanotechnology, and artificial intelligence, these devices have the potential to enable more personalized, accessible, and effective healthcare solutions.

Information about the speaker

Rajan Jha is currently a Professor with the Department of Physics, IIT Bhubaneswar, India. His work focuses on the indigenization of versatile optical systems through the development of high-resolution interferometers for multi-parameter interrogation, flexible/wearable photonic devices, plasmon-coupled configurations for advanced sensing applications and single photon interface/transport.

Webinar by



Dr. Rajan Jha

Department of Physics
Indian Institute of Technology
Bhubaneswar

on

“Wearable Photonics for Human
Physiological Monitoring”

Date: 14th July 2026

Time: 7:30 PM to 8:30 PM

Visit www.iitk.ac.in/scdt/webinars.html
to access the zoom link to join the
webinar.

The event will be chaired by

Dr. Bivas Saha

Jawaharlal Nehru Center for Advanced
Scientific Research (JNCASR), Bangalore