

# ISET Kolkata Chapter organizes an Online Lecture on

## “Sensor-Based Condition Monitoring of Existing Foundations and Retaining Walls”

To register, (max. 100 participants on first come first served basis)

Click the link below

<https://forms.gle/fkCgP1r4ag5ncVfh8>

**Date: 18<sup>th</sup> April, 2026**

**Time: 5.00 PM**

The lecture will present the recent advances in condition monitoring of existing foundation and retaining systems, with a focus on experimental and sensor-based approaches. Large-scale physical model studies on sheet pile walls and pile foundations subjected to excavation-induced and lateral loading are discussed to illustrate deformation mechanisms and load redistribution in soil–structure systems.

### Speaker



### **DR. SUKANTA DAS**

Researcher, Port and Airport Research  
Institute, Japan

Dr. Sukanta Das is presently a researcher at PARI (Port and Airport Research Institute), Japan, specializing in **Soil Dynamics**, Seismic Slopes Stability, **Dynamic soil Structure Interaction (D-SSI)**, and Vibration-based **Health Monitoring of Foundations (V-HMF)**. His research combines large-scale physical model testing, numerical modelling, and sensor technologies such as **Distributed Optical Fiber Sensors (DOFS)**, tiltmeters, and accelerometers to enhance the seismic resilience and post-earthquake serviceability assessment of geotechnical structure. Dr. Das earned his PhD in Earthquake Engineering from IIT Roorkee in 2023. He has authored numerous journal articles and conference papers. He also serves as a member of the editorial board of the journal *Geotechnical and Geological Engineering*.