

## **Internal Webinar**

# **Stochastic Optical Reconstruction Microscopy for Super-Resolution Imaging in Biomedical Applications**

**Amalesh Kumar**

**IIT, Guwahati**

My research focuses on developing an open-frame, cost-effective, modular Stochastic Optical Reconstruction Microscopy (STORM) platform to investigate biological phenomena with unprecedented resolution. The presentation will highlight the basic configuration of a STORM setup, sample preparation protocol for STORM, imaging techniques, and data analysis, emphasizing their applications in understanding cellular dynamics and structural organisation with high resolution.

***Wednesday, Jan 8<sup>th</sup> 2025***

***14:30 Hrs***

