



# INDIAN STRUCTURAL HEALTH MONITORING SOCIETY (ISHMS)

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## TECHNICAL LECTURE SERIES (LECTURE-22)

### DAMAGE, ENVIRONMENT AND TRUTH: A PHYSICS CONSISTENT FRAMEWORK OF STRUCTURAL HEALTH MONITORING

15 DEC 2025, 6:45 PM (IST)

ONLINE MODE



### DR AKASH DIXIT

International SHM Consultant  
(Europe and America)

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LECTURE



Dr. Akash Dixit is former faculty member at the Georgia Institute of Technology and Oakland University. He has 20 years of academic experience as aerospace engineer in the United States. He currently works as an independent contractor for clients including NASA, serving primarily U.S. and European markets. He specializes in Structural Dynamics and Structural Health Monitoring (SHM), using vibration-based methods for damage modeling and diagnosis. He has authored about 30 research papers and delivered 30 invited lectures across the US. Dr. Dixit also has deep expertise in CAD instruction, having taught both in-person and online courses. His work blends theoretical rigor with practical application, advancing the fields of SHM and graphical visualization. In his talk, Dr. Dixit will describe his SHM journey from a simple beam to distilling the field into three concise axioms. He maintains a distinctive perspective, examining science through spirituality and vice versa.