

Talk On






ENGINEERING APPROACHES TO DECODING HUMAN MOVEMENT CONTROL

Tuesday
16.12.2025

11:00 AM-
12:30 PM IST

Venue
Sandeepani Hall
Academic Block 2

TOPIC OVERVIEW

-  Overview of how humans perform complex movements with effortless control.
-  Movement variability highlighted as a meaningful feature, not just error.
-  Variability changes shown as sensitive indicators for detecting Parkinson's -related dysfunction.
-  Motor system explained as a robust, engineering-like control mechanism.
-  Use of saccadic eye movements to study precision and individual control patterns.



SPEAKER

Dr. Varsha Vasudevan
Research Consultant

SPEAKER OVERVIEW

Dr. Varsha Vasudevan is a biomedical engineer specializing in neuroscience and human movement, with experience across leading institutes and startups. She now works as an independent research consultant through her venture, Neurocom.



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