

ACCS 11 - PRE-CONFERENCE WORKSHOP

UNDERSTANDING THE RHYTHMS INSIDE OUT FOR A WHOLE PERSON RESEARCH: Workshop on the basics of Electroencephalography, Electrogastrography and Electrocardiography

Organizers: [Dr. Pragathi Priyadharsini Balasubramani](#) & [Dr. Narayanan Srinivasan](#), IIT Kanpur

Date: December 12, 2024

Time: 9.30-1pm and 2.30-6.30pm

Please note: Interested participants must

(a) register online at the ACCS website and

(b) send their CV and a statement of interest to pbalasub@iitk.ac.in

Topics to be covered:

- Basics of Physiology signals – Recording, Signal Characteristics
 - EEG
 - EGG
 - ECG
- Time series analysis
 - Event related Potentials
- Spectral analysis
 - Event related Spectral Perturbations
- Spatial filtering
 - Generalized Eigen Value Decomposition
- Connectivity
 - Phase Amplitude Coupling
- Modelling of the coupling between physiology signals
 - Hopf oscillators
 - Power coupling in oscillators with different frequencies
 - Travelling waves