Short Term Course on **Introduction to Computational Neuroscience and Biology**
February 02-06, 2026
Program Schedule

		DAY 1: 02/02/2026 (MONDAY)	
TIME		**Expert Speaker**	**Title of the Lecture**
9.00-10.00		Physical Registration	
10.00-11.00		Workshop Inaugural Program	
11.00-11.30		High Tea	
11.30-12.30	Lecture 1	Dr. Kalaiselvan A (CDAC Trivandrum)	R&D for the Nation from C-DAC
12.30-2.00		Lunch Break (Guest House)	
2.00-3.00	Lecture 2	Er. Binu PJ (CDAC Trivandrum)	Inner Speech Decoding
3.00-4.00	Lecture 3	Er. Deepu SS (CDAC Trivandrum)	Demo
4.00-4.15		Tea Break	
4.20-5.00	Lecture 4	Dr. Sudalaimani C (CDAC Trivandrum)	Seizure Detection and Prediction
		DAY 2: 03/02/2026 (TUESDAY)	
10.00-11.00	Lecture 1	Dr. Nidhi Sunhare (AIIMS Patna)	Clinical Anatomy of the Brain
11.00-11.30		High Tea	
11.30-12.30	Lecture 2	Dr. Ashish Verma IMS, BHU	The Language of Diagnostic MRI: How I Learnt the Vowels and Consonants
12.30-2.00		Lunch Break (Guest House)	
2.00-3.00	Lecture 3		
3.00-4.00	Lecture 4	Dr. Jac Fredo AR (IIT (BHU) Varanasi) & CNBL Lab (IIT (BHU) Varanasi)	EEG Instrumentation and Biometrics & Demo on EEG, EMG, ECG Data Acquisition
4.00-4.15	Tea break		
4.20-5.00	Lecture 5		
		DAY 3: 04/02/2026 (WEDNESDAY)	
10.00-11.00	Lecture 1	Prof. Uttama Lahiri (IIT Ghandhinagar)	Freezing of Gait: An Effective Solution using Smart Wear
11.00-11.30		High Tea	
11.30-12.30	Lecture 2	Dr. Deepesh Kumar (IIT (BHU) Varanasi)	Neuromorphic Signal Processing for Healthcare Application
12.30-2.00		Lunch Break (Guest House)	
2.00-3.00	Lecture 3	Dr. Oppili Prasad (IIT (BHU) Varanasi)	EMG Sensing: Applications in Prosthesis, Wearable Technologies and Healthcare
3.00-4.00	Lecture 4	Dr. Sabitha Ramanathan (Cancer Institute Adyar)	Transformative Trends in Contemporary Cancer Research
4.00-4.15		Tea Break	

4.20-5.00	Lecture 5	Dr. Pragathi Priyadharshini (IIT Kanpur)	AI and Physiology Driven Computational Models for Bridging Theory and Clinical Practice
		DAY 4: 05/02/2026 (THURSDAY)	
10.00-11.00	Lecture 1	Prof. Srinivasan Chakravarthy (IIT Madras)	Computing with Rhythms: the search for general trainable oscillatory neural networks
11.00-11.30		High Tea	
11.30-12.30	Lecture 2	Prof. Samarendra Dandapat (IIT Guwahati)	Evolution of Cardiovascular Diagnosis with Machine Learning and Deep Learning
12.30-2.00		Lunch Break (Guest House)	
2.00-3.00	Lecture 3	Prof. Ram Bilas Pachori (IIT Indore)	Automated Classification of Neurological Disorders: Novel Methods
3.00-4.00	Lecture 4	Dr. Manikandan (IIT Palakkad)	Graph Signal Processing for EEG Pattern Recognition
4.00-4.15		Tea Break	
4.20-5.00	Lecture 5	Dr. Maheshkumar H. Kolekar (IIT Patna)	Deep Learning based Brain Tumor Diagnosis for Healthcare Applications
		DAY 5: 06/02/2026 (FRIDAY)	
10.00-11.00	Lecture 1	Dr. Jithin Krishnan (SCTIMST Trivandrum)	From Neural Signals to Adaptive Stimulation: A Computational Perspective on Brain Modulation
11.00-11.30		High Tea	
11.30-12.30	Lecture 2	Dr. Karthick PA (NIT Trichy)	Neural Signal Processing for Epilepsy
12.30-2.00		Lunch Break (Guest House)	
2.00-3.00	Lecture 3	Dr. Nagarajan Ganapathi (IIT Hyderabad)	AI-driven Multimodal Sensing in Smart Private Spaces
3.00-4.00	Lecture 4	Dr. Rohini Palanisamy (IIITDM Kanchipuram)	Techniques for MR image analysis: An application Towards Dementia Diagnosis
4.00-4.15		Tea Break	
4.20-5.00	Lecture 5	Prof. Venugopal G (NSS Palakkad)	Surface EMG Modelling and Analysis
5.00-6.00		Vote of Thanks, Group Picture Session	
6.00-7.00		Discussion on Consortium and Biomedical Signal Processing Society	