



Workshop on Einstein's General Theory of Relativity and Beyond

April 6–10, 2026

Organized by

Department of Physics, Assam University, Silchar ([AUS](#))

The Inter-University Centre for Astronomy and Astrophysics ([IUCAA](#))



Overview

Einstein's General Theory of Relativity (GR) underpins our modern understanding of gravity, cosmology, and high-energy astrophysics. Recent observational breakthroughs including the direct detection of gravitational waves, black hole imaging, and precision cosmology, have transformed GR from a purely theoretical discipline into a data-driven field, demanding researchers who are equally comfortable with its mathematical structure and its physical applications. However, many highly motivated undergraduates, postgraduates, early PhD students and young faculty members in our region do not receive systematic training in GR and the new research frontiers in this direction. The workshop aims to bridge the gap between textbook familiarity and research-level understanding, and to create a pipeline of students and teachers better equipped to contribute to the national and international GR community.

Speakers



Prof Parthasarathi Majumdar
IACS, Kolkata



Dr. Apratim Ganguly
IUCAA



Dr. Bhaswati Mandal
ISI, Kolkata



Prof Patrick Dasgupta
Delhi University

Eligibility:

Advanced Undergraduate / Post Graduate students/ Research Scholars and young Faculty members of Physics or Mathematics Background.

Outstation participants will be provided TA (Train Sleeper Class), boarding and lodging.

REGISTRATION LINK: <https://forms.gle/eqXkygj3dqUi7wTm8>

Registration deadline: March 25, 2026

Intimation of Selection: March 27, 2025

Contact: atri.deshamukhya@aus.ac.in

Co-ordinators

Dr Apratim Ganguly, IUCAA, PUNE,

Prof Atri Deshamukhya and Prof Himadri Sekhar Das, Assam University, Silchar

