




Institute Colloquium

S. N. Bose National Centre for Basic Sciences
(An Autonomous Research Institute established
under DST, GOI)



 20th May
2026

 11.30 AM

 Fermion Hall

 YouTube [YouTube Link](#)

 Webinar Link

Title: Making classroom teaching more effective

Abstract: Teaching generally has been based on the premise that students are responsible for learning while teachers are responsible for lecturing. However, the focus in higher education has now shifted from teaching to learning, and this change is subtle. It gives teachers the additional responsibility and challenge of supporting students to achieve learning outcomes effectively, and many of us already do this intuitively. However, it is only recently that teachers in institutions of higher learning have begun adopting research-based approaches to classroom teaching. In this talk, I will discuss some of these teaching methods. The session is intended to be an interactive discussion on teaching.

Speaker: Prof Manoj K. Harbola
Professor, Centre for Educational Research and Teaching Excellence (CERTEX) & Department of Physics, Indian Institute of Technology, Kanpur

Short Biography of the Speaker:

Prof. Manoj Kumar Harbola joined IIT, Kanpur in 2000. He obtained his doctoral degree at the City University of New York, USA, working under the supervision of Prof. Viralit Sahni. Subsequently he carried out postdoctoral research at the University of North Carolina, Chapel Hill, USA before joining the Centre for Advanced Technology, Indore as a Scientist.

He is a theoretical physicist, whose chief interest lies in Electronic Structure of Atoms, Molecules and Solids using Density Functional Methods.

At present, his group is involved in exploring fundamental aspects of density-functional theory, which is the most widely used theory of electronic structure of materials.

He is also interested in exploring new and different ways of teaching physics at all levels and look for ways of making learning of physics exciting without sacrificing its rigour.

