For Immediate Release: March 22, 2023

PRESS RELEASE

Prof Sreerup Raychaudhuri; Renowned expert on Particle Physics enlighten students, research scholars and faculty members of IIT (ISM) about discovery of elementary particles and their significance as part of lecture delivered at IIT (ISM).

Prof. Sreerup Raychaudhuri Professor of Theoretical Physics at Tata Institute of Fundamental Research (TIFR), Mumbai who is also a renowned Particle Physicist on March 21 delivered a talk, titled "***From Nano to Atto: the amazing world of elementary particles***" as part of the Lecture Series being organized by the Department of Physics of Dhanbad based premiere tech cradle IIT (ISM) at the Ground Floor Auditorium of Department of Management Studies and Industrial Engineering during which he discussed about discovery of elementary particles and their significance.

Speaking during the occasion, Prof Raychaudhuri, who had taught Physics for seven years at IIT Kanpur before joining TIFR as the Professor of Theoretical Physics and Dean (Administration) said, “Elementary particles, Electron, Proton and Neutron are building blocks of atom which on the other hand is the smallest known building blocks of the universe”.

Prof Raychaudhuri, a PhD Degree Holder of the University of Calcutta,who worked as a postdoc first at TIFR and then at CERN Geneva, the European Organization for Nuclear Research, further said, “Around 300 elementary particles have so far been discovered many of which are in cosmic rays, a flow of high energy particles originating from the Sun, our own Milky Way Galaxy and some of the other galaxies.

“Some elementary particles are generated artificially in particle accelerator, one of prominent of which is CERN, the largest Physics Laboratory in the world, situated on France Switzerland border” said Prof Raychaudhuri who is also interested in history of popularization of Science.

“In 2012, an elementary particle called 'Higgs boson', was discovered at the Large Hadron Collider (LHC) at CERN almost after 50 years of search” elaborated Prof Raychaudhuri while delivering the lecture in presence of faculty members, students and research scholars of the Department of Physics.

The speaker who dwelt at length about the exciting journey of experimental finding of elementary particles said, “the ability of scientific instruments is improved from detecting an article of one nanometer (one of 100 crores equal division of a meter) to detecting elementary particles of size One Attometer (one of 100 crores equal division of a nanometer).

Notably, Department of Physics of IIT (ISM) is organizing National Science Day 2023 lecture series as per which many distinguished speakers have delivered talks in Online and also offline mode as per the convenience.

Swami Atmapriyananda Maharaj, Pro Chancellor,Ramkrishna Mission Vivekananda Educational and Research Institute, Belur Math, during his lecture titled, Saving Challenge of Spirituality in the

Modern age of Science and Reason on March 17 discussed Science Unification through Vedanta and Upnishads.

Rajni Singh

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