

Seminar on "Secrets of our origins - a quest with the Large Hadron Collider (LHC)" by **Dr. Sabyasachi Siddhanta** of CERN, GENEVA on 10.09.14

Narula Institute of Technology is fortunate to invite Dr. Sabyasachi Siddhanta to deliver a lecture on "Secrets of our origins - a quest with the Large Hadron Collider (LHC)". Dr. Sabyasachi Siddhanta is working as a research scientist at the Department of Physics, University of Cagliari, Italy and as an associate at INFN Cagliari and CERN from 2006. His activities are mainly in ALICE (A Large Ion Collider Experiment) at the CERN LHC which is 27 km radius tunnel spanning over Switzerland and France and is the world's largest and most powerful particle collider built by CERN during 1998 to 2008. In this seminar Dr. Sabyasachi Siddhanta tries to light on some questions like



“What is the universe made of? How did it start? What happened to antimatter? What is the origin of mass? How did the universe evolve to what we see today?”

These are difficult questions to which we don't have complete answers, yet. Researchers at CERN (European Council for Nuclear Research) are trying to find answers to these questions using a sophisticated system of accelerators comprising of, among others, the Large Hadron Collider (LHC) and custom made particle detectors. Accelerators boost beams of particles to high energies before the beams are made to collide with each other or with stationary targets. Detectors observe and record the results of these collisions. The process gives the physicists clues about how the particles interact, and provides insights into the fundamental laws of nature. The seminar held on Language lab1 with 40 audience capacity. Later we had to manage 75

audience arrangements with extra chairs. Some of the students could not even enter into lecture theatre due to space constraint. Audience became excited to learn some amazing facts that are happening at CERN. Students also come to know that there is an opportunity to work at CERN on six months internship project. Students of non member country like India may also avail the facility. The seminar ended with vote of thanks.



Few feedbacks from the audience:

*“Very good demonstration of a complex matter in simple way. The audience got a broader perspective of the research on particle physics taking place at CERN, and detailed view of Large Hadron Collider and its experiments taking place in CERN.” ..... Dr. Subhashis Biswas(Dept. of Chemistry, NIT)*

*“The Institute provided very much support in the last hours. We expect more such support in the future in conducting such wonderful seminars and talks.” .....Mr. Sanjay Goswamee(Dept. of CA, NIT)*

*“The lecture delivered by Dr S. Siddhanta was very en-lighting both for the students and the faculty members. Initiatives must be taken seriously to arrange such lectures to make our*

*students familiar with the global technological scenario and increase their potentiality.”.....Ms. Samata Saha (Dept. of Applied Science and Humanities, GNIT)*

*“Thank you Sajal Sir for arranging such a great seminar and very very thanks to Dr. Sabyasachi Siddhanta sir for delivering this complex topic in a very simple and understandable way. Now I am very much interested in GRID technology, after hearing a little bit from the legend.”.... Gourab Das(PG student, NIT)*