**DEPARTMENT OF INSTRUMENTATION**

**COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**Report of the ERUDITE programme conducted in 2016**

The ERUDITE programme for the academic year 2015-2016 was conducted by Department of Instrumentation during the period 16th February 2016 to 18th February 2016 and 8th March to 11th March 2016. As part of Erudite 2015-2016 programme, **Prof. Navkanta Bhatt** from Department of  [Electrical Communication Engineering](http://ece.iisc.ernet.in/), IISc, Bangalore and **Prof R.S Anand** from Roorkee IIT visited our Department.

1. **Prof: Navakanta Bhatt (16-18 Feb. 2016)**

The first part of ERUDITE programme for the academic year 2015-2016 was conducted during the period 16th February-18th February 2016. **Prof. Navakanta Bhatt** from Department of [Electrical Communication Engineering](http://ece.iisc.ernet.in/), Indian Institute of Science, Bangalore visited our Department during this period. Prof. Bhatt arrived on 16th February 2016 morning.

**Day 1 (16th Feb)**

Prof.Bhatt arrived at the venue at **Department of Instrumentation** at 10.30am. There was an inaugural function in which research scholars, PG & UG students and faculty members participated. An interaction meeting with students, research scholars and faculty followed this. The discussions were very much useful to the research students who could clear several of their doubts regarding material processing, nano materials and graphene. From 2.30 pm-4.30pm Pof.Bhatt delivered a talk on “**Nanotechnology-an overview”**.

The talk was attended by research students of Instrumentation, Physics, Chemistry, Photonics and Electronics departments. A large number of faculty members from these departments also attended the talk.

**Day 2 (17th Feb)**

Instrumentation: - Discussions with research students and faculty of Instrumentation department-discussions on graphene preparation and characterization and advices to our group working on the same subject. Prof Bhatt visited various research labs of the department and expressed his appreciation on the level of work carried out in our labs. He invited a few of our research students to visit his lab at IISc to learn more about graphene preparation and characterization.

**Day 3 (18th Feb)**

Instrumentation: One of the important fields of research in the Department of Instrumentation is “Sensors” of various kinds. Hence Prof. Navakanta Bhatt felt it appropriate to deliver a talk on this subject. Thetitle of the talk was **“Nanostructured Gas Sensors”** and was in the forenoon session of the 3rd day between 10.00am and 12.00 noon. Students who are working in this area found the talk very much useful and could clear several of their doubts.

Physics: In the afternoon session at 2.30pm Prof Bhatt talked on “**2D materials for Nanoelectronics: opportunities and challenges”** at Department of Physics auditorium which was well attended by faculty, research and PG students of various departments. The talk gave a good introduction to the new class of 2D materials which has become hot topic of research after the emergence of Graphene. After the talk there was a good discussion and including faculty members interacted with Prof Bhatt.

Prof. Navakanta Bhatt’s visit in the ERUDITE programme was immensely useful to a large number of students and faculty members of Instrumentation, Physics, Chemistry, Electronic and Photonics departments of this University. Prof Bhatt invited a few of our students working in the area of 2D materials including Graphene to visit his lab at IISc and offered all help that he can, for their research work. Prof.Bhatt returned to Bangalore same day evening.