

**Holy Cross College**  
**Department of Chemistry**  
**Outreach programme on Higher Education and Research**  
**(17<sup>th</sup> October 2018)**

Outreach programme on Higher Education and Research organized by the Department of Chemistry, Holy Cross College (Autonomous), Nagercoil in collaboration with Indian Institute of Science Education and Research was held on 17<sup>th</sup> October 2015.

**Resource Persons:**

Dr. Suhesh Kumar Singh  
Assistant Professor, School of Physics  
Indian Institute of Science Education and Research  
Thiruvananthapuram, Kerala.

Dr. Ramesh Rasappan  
Assistant Professor, School of Chemistry,  
Indian Institute of Science Education and Research,  
Thiruvananthapuram, Kerala.

Dr. K. R. Arun  
Assistant Professor, School of Maths,  
Indian Institute of Science Education and Research,  
Thiruvananthapuram, Kerala.

Dr. S. Gokulnath  
Assistant Professor, School of Chemistry,  
Indian Institute of Science Education and Research,  
Thiruvananthapuram, Kerala.

The outreach programme was felicitated by our beloved Secretary Dr. Sr. Gerardin Jayamand our beloved Principal Dr. Sr. M. R. Basil Rose. This interaction program aimed at enabling the students to interact with the faculty members of IISER to improve their scientific knowledge and opportunities in future. The young scientists from IISER highlighted the higher education programmes and the methods to nurture scientific thinking and research skills among the students.

The School of Physical Sciences and Mathematics at IISER conducted relevant talks about recent advances in their fields to improve the knowledge of students in specific areas of science. The resource person Dr. Suhesh Kumar Singh of Physics talked about the Photoacoustic (PA) imaging: A boon to healthcare imaging technology". Dr. Ramesh Rasappan of Chemistry talked about the Historical and Modern Perspectives of Drug Discovery in organic synthesis. He highlighted that Genome sciences, combined with

bioinformatic tools are used to determine the most suitable points of attack for future medicines, thereby increasing the number of treatment options.

Dr. K. R. Arun from school of Maths gave a talk regarding the topic “Everywhere Continuous but Nowhere Differentiable Functions”. He highlighted the theory of local fractional derivative and integral of function with one variable. This outreach programme was very useful for the participants. Around 225 participants including staff members, M.Phil scholars, PG and UG students from our institution and other institutions participated in this programme. The session ended with vote of thanks and National Anthem.



