

DEPARTMENT OF PHYSICS
NIRMALAGIRI COLLEGE, KUTHUPARAMBA

Report of Activities

A number of programmes are being conducted by the Department aimed at fostering scientific temper and creating awareness among the students and public. The programmes conducted are:

Edison's Lab – Basic Science Experiments for school students

The programme was conducted on Tuesday, 20th February, 2018. The idea was to encourage the students to set up experiments based on basic Science concepts and the present them to high school students. A total of 23 experiments were set up by the students of the Department of Physics (primarily the degree final year students). Around 400 students from various schools around the vicinity attended the programme. The programme was successful owing to the number of participants and more importantly owing to the knowledge acquired and transferred amongst students.



Edison's Lab-Basic Science Experiments to school children....

Seminar Presentation Competition (An intercollegiate competition)

An intercollegiate seminar competition was conducted on 15th February, 2018. Owing to the possibility of wider participation from different academic streams the topic of the seminar competition was modified to Science in India: Yesterday, Today & Tomorrow. Eleven students participated in the competition which was arranged in the seminar hall. Dr. Deepa K of Department of Physics, PRNSS College, Mattannur and Mr. Vipin V. K.

Department of Physics, S.N. College, Kannur judged the competition. Ms. Anjali Chandran, I DC physics, Nirmalagiri College, Kuthuparamba, Ms. Sandra Maria Joseph, I B. Sc., M.G. College, Iritty and Mr. Rahul T V, I M.Sc, Nirmalagiri College bagged the First, Second and Third Prizes respectively. The winners were presented attractive prizes. The competition was assessed to have contributed in bringing together the undergraduate, post graduate and research students/scholars to express their views, leading to good discussions on the topic.



Seminar Presentation Competition: Science in India-Yesterday, Today & Tomorrow.

Da Vinci's Canvas - Poster Presentation Competition for college/university level students

An intercollegiate poster presentation competition was held on 15th February, 2018 at Nirmalagiri College, as part of the National Science Day Celebrations. 17 students from various colleges participated in the event. The Topic of the poster presentation was – *The 2017 Nobel Prize in Physics*. The winners are: First- Ebin Joseph, I B.Sc., S. N College, Kannur, Second: Akash P. , I .B.Sc., S. N College, Kannur, Third: Arosh Joshy, III B.Sc., Nirmalagiri College. The participants were not only able to present their creative skills, but also used this platform to enhance their science presentation skills.



Poster Presentation Competition.

Bose Heurista - Problem Solving Competition for college/university level students

A problem solving competition for university level students was conducted on 15th February, 2018. The programme was conducted by Mr. Emmanuel Tom, a faculty member at the Department of Physics of Nirmalagiri College. The competition, primarily based on higher secondary level science concepts, was attended by 46 students. The winners are: First- Shivaprasad V & Albin Kuriakose, M.G. College, Iritty, Second: Amrutha T & Rohith K M, PRNSS College, Mattanur and Third: Vishnu P & Samnesh C K, Nirmalagiri College. This programme helped students brush up some basic science concepts.



Problem Solving competition

Ceilo Galilea - Sky Watching Camp - Open to the students and public

A sky watching camp was organized in association with the Astro Observatory, Payyannur. The degree students of the college had an overnight camp. The participants were familiarized with the art of identifying stars, using them as direction indicators, the origin of scientific thought, distinction between science and pseudo science etc. As the degree students study astrophysics as part of their syllabus they benefitted from such a programme immensely. The sessions were handled by amateur astronomer Mr. Gangadharan Valloor of Astro Payyannur. 28 students and four faculty members attended the programme.



Sky Watching Camp

We wish to establish a permanent centre in our campus for conducting sky watching camps with facilities such as telescope and a mini planetarium so that we can reach out to more students, especially school children and the general public.

Curie Kvizo - Science Quiz competition for students from class XI and XII students.

The science quiz for students of class XI and XII was conducted with the aim to bring out the competitive spirit of students via learning science. The Quiz Master was Mr. Deepu Joseph a faculty member at the Department of Physics of Nirmalagiri College. Students from various schools in Kannur district participated in the event totaling to 60 participants. The Winners are: First: Sinadin Shan M A & Akshay Kiran Jose, Marygiri Senior Secondary School, Sreekandapuram, Second: Anwaya Anil & Vidhunya Aniyeri, Govt. Brennen Higher Secondary School, Thalasserry and Third: Ilham Al Rahm & Reniya V P, Govt. Brennen Higher Secondary School, Thalasserry.

Invited lecture by Prof. K . Papootty

A lecture on ‘Astronomy in India’ was delivered by Prof. K. Pappootty, Writer and former Head, Dept. of Physics, Govt. College, Madappally. The session was highly interactive and enlightening.



Prof. K. Papootty inaugurating the Science Day Celebrations

Screening of the Documentary on Sir. C V Raman

A documentary film on Sir C. V. Raman titled “C. V. Raman: The Scientist and his legacy” was screened for the students of the college on 28th February 2018. Anjali Chandran, who won the first position in Seminar competition presented the seminar and was attended by over 100 members of the college. It gave an opportunity for members of Nirmalagiri college to revive wonderful memories of renowned scientist.

Essay Writing Competition was conducted on 27th February for the students and Ms. Alby Tom, Ms. Amala Shaju and Ms. Preetha Alphonsa won First, Second and Third prizes respectively.

Physics Club Activities: The Physics club of the college is actively involved in Science popularization activities.

A Tribute to Stephen Hawking: A bio pic on Stephen Hawking, “The Theory of Everything” was screened for to commemorate the life and contributions of the great physicist who passed away this year.



Felicitation to JRF Winners:

Master Thejus K.K., II year M.Sc. student who qualified the CSIR-JRF was felicitated by the department on 20th March, 2018. Mar. George Njaralakkatt, Patron of the College presented the memento.



Mentoring Sessions:

Mentoring sessions are conducted for the students after the regular working hours with an aim to instill in the students life skills and make them socially oriented. Sessions include training on soft skills, group dynamics etc. Mentors are allotted to each batch of students.



Group Dynamics-honing soft skills

Alumni Interaction:

Motivational sessions by illustrious alumni of the department are organized to instill confidence in the students and give them career orientation.



Dr. Renjith Kumar P M, Post Doctoral Fellow, Chinese Academy of Sciences, Beijing interacting with PG Students.

Career Guidance Seminar:

A career guidance seminar on ‘Opportunities in Atomic Energy’ was organized on 30th January, 2019 by the department in association with the Career Guidance and Placement Cell of the College. Dr. Premji, Scientific Officer, IGCAR, Kalpakkam lead the session.



Class PTA

Regular meeting of the PTA is being held for each class, which is an occasion to appreciate the achievements, analyze the results and discuss the academic and personal details. One to one teacher-parent interaction for the final year students is a special feature of the meeting.



Project guidance to School Students:

Research facilities of the department and the expertise of the faculty members is shared with students of nearby schools by extending guidance in completing student projects.



Technology Enhanced Learning:

Video Lectures by eminent scholars on selected topics are given to students for enhancing their subject knowledge. MIT Lectures, NPTEL Videos etc. are used for this purpose. The Google Classroom facility is also being used for enabling students use the technology effectively.

