



**ST. XAVIER'S COLLEGE FOR WOMEN, ALUVA**  
REACCREDITED BY NAAC WITH A GRADE (CGPA 3.33)

**DEPARTMENT OF PHYSICS**  
**ANNUAL REPORT**  
**2018-2019**

## DEPARTMENT OF PHYSICS

### Association Activities 2018-2019



#### Inauguration by Dr.Asha A S,Asst.Professor, Dept of Physics,CUSAT

- The activities of Physics Association were inaugurated by Dr. Asha A S, Assistant professor, Department of Physics, CUSAT ON 19/11/2018. It was followed by a talk on “Emerging trends in Photovoltaic”.



#### Research Centre Inauguration by Prof.K Indulekha,Director, SPAP ,M G University

- Department of Physics has been upgraded to a Research Centre and was inaugurated by Prof. K Indulekha, Director, School of Pure and Applied Physics, M G University, Kottayam on 23/10/2018.It was followed by a talk on “Physics of Gravitational Waves”



**School Linkage Program, on the topic “Our Universe” for school students.**

- As part of Academic extension activity, “THE SCHOOL LINKAGE PROGRAM”, classes for SNDP School students were arranged on the topic “OUR UNIVERSE” on **30/01/2019**. ICT enabled classes were organized for them. Demonstration of our solar system and various constellations were set up and explained by our PG students.



**Junior Scientist Program for high school Students-LAB SESSIONS**

- Classes for Junior Scientist program for high school students were organized and successful six sessions were completed. **15/6/2018 & 20/9/2018 & 21/9/2018 & 19/10/2018 & 6/11/2018 & 20/11/2018**



**Quiz Competition for IDC Students in connection with the Death Anniversary of Dr.APJ Abdul Kalam & Birth Anniversary of Dr.Vikram Sarabhai**

- Other activities include a quiz competition in connection with the Death Anniversary of Dr.APJ Abdul Kalam & Birth Anniversary of Dr.Vikram Sarabhai for 1<sup>st</sup> year UG students of the department. It was organized by final year UG students on **30/7/2018**.



**Academic Week Celebration "ACADEMIA 2019"- (a) Student Lecture Series &**

**(b)Exhibition- 'VERITASIUM-An Element of Truth'**

- In connection with the Academic week celebration "ACADEMIA 2019", following events were conducted by the department.
  - ✓ **28/01/2019**-Student Lecture Series & Inter Departmental Quiz Competition.
  - ✓ **29/01/2019**-Students were participated in the Powerpoint Presentation Competition - Hina Thomas & Sneha Teresa O J of II BSc Physics secured second place.
  - ✓ **30/01/2019**-An exhibition "VERITASIUM-An Element of Truth" was organized by the Department. Students from both UG and PG actively contributed for the



same. Various working and still models were exhibited and bagged the best performance award among the Science departments.

- ✓ **1/02/2019**-An expert lecture series by Dr. Prajit Chandran on the topic “THE LAWS OF GRAND DESIGN” was organized for the Physics as well as Chemistry students.



#### **National Level Competitive Exam organized by IAPT conducted for B.Sc Students**

- The department conducted NET model examination in association with APT on **6/7/2018** and IAPT examination for the 2<sup>nd</sup> and 3<sup>rd</sup> year BSc students on **20/01/2019**
- A motivational talk was arranged for 3<sup>rd</sup> BSc students by our alumni Mrs.Helen Rose, former faculty, Vidhyodaya School on **17/01/2019**.
- In association with DCS Academy, a demonstrative class on Robotics was given to final year students on **12/9/18**



#### **In collaboration with Vijaya Bank Officers Association Distributed relief materials to flood affected students**

- In collaboration with Vijaya Bank Officers Association, relief materials were distributed to flood affected students of our college on **5/9/2018**.
- Relief materials worth Rs. 54000/- was distributed by the department for the students and community.

- A team of 28 final year students and 2 faculty members went for a study tour to Mysore and Bangalore from **17/12/2018 to 20/12/2018**
- Students were actively participated in various activities and fests organized by our college.
- 1<sup>st</sup> year PG Students attended a regional seminar on “Relativity, Black Hole and Gravity” at Al-Ameen College, Edathala.
- Diniya of II M.Sc Physics presented a Paper on the topic “Study of the variation of Structural and optical properties of cobalt ferrite nano particles with Sintering temperature” in association with Department of Mathematics and RPC.
- Sreelakshmi K of II MSc Physics won the Golden Girl award – By Times of India and Malabar Gold.
- Swetha Sebi from I DC Physics won 3<sup>rd</sup> prize for Chess Competition.



**IUCAA-APT Sponsored two day National Workshop for teachers and research scholars on the topic”Introduction to Solar Astrophysics”.**

- IUCAA- APT sponsored National Workshop for teachers and research scholars on the topic “Introduction to Solar Astrophysics” is sanctioned and is proposed to be conducted on 2<sup>nd</sup> and 3<sup>rd</sup> March.



**One Day seminar on “Intellectual Property Rights and Academic Writing”**

- Seminar on Intellectual Property Rights and Academic Writing, organized by Department of Physics and IQAC, on 15<sup>th</sup> February 2019.
- PG students along with 6 faculty members went for a one day trip to Munnar on 16<sup>th</sup> February.
- Intercollegiate Fest FIZIKA 2k19 conducted by the Physics Association supported by APT, Kerala on 28<sup>th</sup> February 2019.



- Physics Association valedictory function was organised by the department which was presided by our Principal, Rev.Dr.Sr.Shalini on 27/03/2019. Prizes were distributed for the student achievements in academic activities and extracurricular activities. Felicitated outgoing students and retiring staff members.