



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

DEPARTMENT OF CHEMISTRY
ANNUAL REPORT
2017-2018

DEPARTMENT OF CHEMISTRY 2017-18

ASSOCIATION ACTIVITIES

Inauguration of Chemistry Association: Activities of the Chemistry department was inaugurated by Dr.P.V.Joseph, Retd.Professor Maharajas College , Ernakulam



Each One Teach One Programme: Students are given an opportunity to teach other students



Women's Day Rally : Department of Chemistry secured second prize in the rally competition conducted in connection with the Women's Day.



Alumini Meet on 10th February 2018:



Training Programmes Organised:

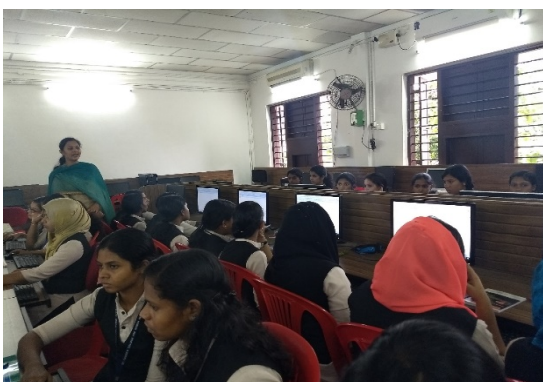
- **Virtual Lab training programme:** Introduced virtual Lab training along with actual practical classes for Volumetric analysis as a greener method of repeating practicals without wastage of chemicals.



- **Training at Unibiosys, Kalamassery:** One day training in antimicrobial analysis is given to students of III DC Chemistry at Unibiosys, Kalamassery
- **Training programme at Centre for Bio polymer Science and Technology**
A one day training programme on processing and testing of plastics at Centre for Bio polymer Science and Technology (CBPST) Kochi, a unit of CIPET was given to 29 students of III DC Chemistry on 15-2-2018. The technical sessions enlightened the students on the importance of replacing plastic materials with bioplastic materials. They were also introduced to various plastic processing and polymer testing techniques. The programme also included the practical demonstration of various plastic processing equipments, characterization and product checking techniques.



- **Software Training Programme:** Given training in Microsoft excel and Microsoft powerpoint and to prepare spread sheets, power point presentations, e-assignments etc.



Workshops Organised:

- **Workshop on Microscale Analysis:** A Workshop on Microanalysis, a greener and microscale method of doing chemistry experiments by Prof.S. Murugan,Retd., S.T.Hindu College , Nagercoil was organised, which highlighted the importance of reducing chemical waste in laboratory experiments.



- **Workshop on Water analysis:**A hands on training by Dr.Ravi Divakaran, Professor, ToCH Engineering Institute was organised on the various analytical methods used to check the estimation of iron content, hardness and pH of the drinking water.



Industrial/Institutional Visits

- **C-MET Visit:** Students visited the institution of Centre for Materials for Electronics Technology C-MET, Trissur on 28 th February 2018 to get acknowledged with research findings and recent developments in research so as to inculcate research aptitude in students. Students were introduced to the methods of production of nanoparticles, Working and applications of SEM, Actuators, SuperCapacitors, Aerogels ,Breast cancer detecting devices etc.



- **Industrial Visit to Kudankulam nuclear power plant:** Visit to Kudankulam Nuclear Power Project on 12 th March 2018 gave an awareness on the importance of Nuclear energy in the 21st century and how they have set up the plant maintaining Green environment and safety standards. Students got an idea about how the nuclear power is produced and how it can be used to meet the future energy demands of industrialized India.



Seminars Organised:

- Seminar on NMR Spectroscopy by Dr. Anu Gopinath, Assistant Professor , KUFOS



- Seminar by Mr. Vishnu Lona Jacob



- * **Demonstration of Magical Reactions in Chemistry:** Dr.V.S Sebastian, Associate Professor and Dr.Ramakrishnan S, Assistant Professor of Department of Chemistry, Sacred Heart College, Thevara demonstrated various magical experiments in chemistry and elaborated the chemistry behind it.



Study tour to Mysore



Special Achievements:

- * **Arundathy J** passed the NPTEL online course in Co ordination Chemistry with 80% marks. She also secured award for Best Volunteer Secretary in National Service Scheme at M.G University as well as in Kerala State.