

MARKAZ ARTS & SCIENCE COLEGE ATHAVANAD

Post Graduate Department of Chemistry

Annual Report 2020 – 2021

The college was reopened on 01/06/2020. The department have 8 faculty members. There are 110 students in which 21 boys and 89 girls. Percentage of results in this academic year is UG - 100 % and PG – 87.5%.

Dr. CP Mohammed Kutty, Principal, Markaz Arts & Science College was acted as the Resource person for the Targeted Communication Campaign in the topics “ Nalla Adukkala – Aarogyamulla Bhakshana Sheelangal” and “Importance of Food & Nutrition” conducted by Field Outreach Bureau, Wayanad under Ministry of Information & Broadcasting- Govt of India on the dates 29/09/2020, 13/10/2020, 07/11/2020 & 26/02/2021 at various ICDS. He acted as member of External Academic Audit in EMEA College, Kondotty. He was the Resource person for the programme “Chemistry of Kitchen” conducted by Department of Chemistry, KAHM Unity Womens College Manjeri as part of National Science Day Celebration on 04/03/2021.

The faculty members of the department participated in various Seminars and Workshops.

Mr. Abdul Salam Mattath (HoD) had participated six national workshops conducted by various Colleges and Departments and also attended nine national and international webinars. Mrs. Sumayya K.T had participated three workshops and seven webinars and Mr. Ramees P attended nine webinars.

The faculty members of the department successfully completed One day Faculty Empowerment Programme conducted by Markaz Arts & Science College Athavanad and MES Keveeyam College, Valanchery under UGC Paramarsh Scheme on 06/02/2021. Mr. Abdul Salam Mattath, Mrs. Sumayya K.T, Mrs. Mubeena T and Mrs. Ayisha Safeeda TK were successfully completed the five days Faculty Development Programme “Pedagogical Approaches and Digital Tools for Effective Teaching – Learning conducted by IQAC MES Keveeyam College Valanchery in association with Kerala State Higher Education Council from 03 – 07 August 2020.

The department of Chemistry conducted various programmes in this academic year and the detailed report is given below.

International Webinar

An international webinar on “Solar Fuel Technologies- from Natural to Artificial Photosynthesis” was conducted on 19/09/2020. The programme was inaugurated by Dr. CP Mohammed Kutty, Principal, Markaz Arts & Science College. Dr. Fazalurahman Kuttassery, Postdoctoral fellow at Tokyo Institute of Technology was presented the topic on Solar Fuel Technologies. The session was chaired by Head of the Department of Chemistry Mr. Abdul Salam Mattath and Mrs. Mubeena, Assistant Professor, Dept of Chemistry delivered vote of Thanks. Faculties, students and research scholars from various colleges were participated in the programme.

National webinar

A national webinar on “Speciality polymers” was conducted on 29/05/2020. Dr. Sumesh K Raman, Post doctoral Research Associate University of Oxford presented the topic. The session was chaired by Dr. CP Mohammed Kutty, Principal and Mrs. Ayisha Safeeda TK delivered the Vote of Thanks.

Fostering Scientific Temper Series

Department of Chemistry, Markaz Arts & Science College had started Fostering Scientific Temper Series to inculcate good scientific attitude and to create interest in chemistry among graduate and postgraduate students of chemistry. The main objective of the programme is to make a wave of change in the conventional educational system and to inspire and ignite the spark hidden among the students. This programme will be done in two phases.

I. Lecture and Hands on Training in “Biocomposites for better future”

The programme was conducted on 18/03/2021. Dr. A Sujith , Head of the Department of Chemistry, NIT Calicut gave a talk and hands on training in biocomposite materials. Dr. CP Mohammed Kutty, Principal, Markaz Arts & Science College was chaired the function. 35 postgraduate students from the chemistry department were participated and they successfully completed the training programme.

II. Lecture on “Chemistry and Society”

This lecture was handled by Dr. Mohammed Shafi, Former Head, Dept of Chemistry, University of Calicut. Through this session the participants understood the role of chemistry with society, it plays a role in everyone’s lives and touches almost every aspects of our existence. The session was chaired by our Principal Dr. CP Mohammed Kutty , welcome

speech by Head of the department, Mr. Abdul Salam Mattath and Vote of Thanks by Mr. Ramees. About 50 chemistry students were participated in the programme by keeping Covid Protocol.

Inauguration of Water Analysis Lab

A water analysis lab was set up for analysing drinking water quality, identification of potable water resources and development of effective water purification system in the college campus and premises and also in the adopted village by national service scheme. The lab was inaugurated by Sri. V Prasad (Superintending Engineer, Kerala Water Authority, PH Circle Malappuram) in the presence of Sri. Viswan Nair (Asst. Executive Engineer, Irrigation Dept. Kuttippuram) and Sri. PT Abdurahman (Asst. Engineer, Irrigation Dept. Kuttippuram) on 22/03/2021. This lab also aims to water quality analysis for public and also to conduct water based projects for students. About ten parameters were analysing in the lab and also suggest the remedial measures. It helps the people for getting their water non- polluted.

Celebration of World Water Day

In connection with world water day the Department of Chemistry conducted a programme on 22/03/2021 at MMC Hall in the theme “Valuing Water” to make awareness about the conservation of water resources among the students. The session was inaugurated by Sri. V Prasad (Superintending Engineer, Kerala Water Authority, PH Circle Malappuram).Dr. CP Mohammed Kutty (Principal, MASC) was presided over the function and welcome speech was done by Mr. Abdul Salam Mattath (HoD, Chemistry, MASC). Sri. Viswan Nair (Asst. Executive Engineer, Irrigation Dept. Kuttippuram), Sri PT Abdurahman (Asst. Engineer, Irrigation Dept. Kuttippuram), Prof. AK Unas (Senior Faculty, Dept of Chemistry), KM Abdul Gafoor (Superintendent, MASC) and Mr. V Mohammed Basheer (IQAC, Coordinator, MASC) were felicitated. In the second session our Principal presented a Talk on the theme of World Water Day 2021.

Career Guidance – Career Jalakam

University Employment Information and Guidance Bureau, University of Calicut Organised a one day career webinar in association with Department of Chemistry, Markaz Arts & Science College Athavanad under the name “Career Jalakam” on 14/02/2021 through

Zoom. The Session was chaired by Smt. Sameera N.V (Deputy Chief, UEIGB, university of Calicut). The webinar was inaugurated by Dr. CP Mohammed Kutty (Principal, MASC). The resource person was Mr. MV Zakariya (Former Public Relations Officer, University of Calicut). About 100 students were participated in the webinar and that helped the students to familiar with the career areas of chemistry.

Certificate Course

The Department of Chemistry introduced a Certificate course of 30 hour duration on “Water Quality Analysis” in the year 2020 – 2021. The Board of Studies of Certificate Course was formed by including the skilled experts in the relevant field. Dr. A Sujith, (Head, Dept of Chemistry, NIT Calicut) and Dr. CP Mohammed Kutty (Principal, Markaz Arts & Science College) were such members. The inauguration of Certificate Course was done by Mr. MG Vinod Kumar (Senior Chemist, Quality Control Division, Kerala Water Authority Kozhikode) on 06/03/2021. The Introduction lecture was by Dr. CP Mohammed Kutty (Principal, MASC). The Course includes both theory and practical sessions and by completing this course the students were capable for identification and analysis of quality of water.

Skill Enhancement Programme (SEP)

A Skill Enhancement Programme was conducted on “Water Quality- Parameters and Analysis” through google meet on 02/12/2020. Mr. Muhammed Shamseer (Shift Chemist, Qatar Petrochemical Company) was presented the topic. About 80 students were participated. This SEP help them to develop their skills, abilities and competencies to enhance and become more confident in their performances.

World Ozone Day Celebration

In connection with World Ozone Day the department conducted a college level poster making competition on the theme “Ozone for life” on 16/09/2020. About 13 Students were participated in the competition.

National Science Day

The department of chemistry conducted a college level quiz competition on 26/02/2021 in connection with National Science Day. 10 teams from various departments were participated. The team of Ms. Anjali (1st MSc Chemistry) got the first prize in the quiz competition.

Industrial Visit/Training Programme

About 32 students from third year BSc Chemistry and First Semester MSc Chemistry were attended Three days training programme on Latex Rubber Based Rubber Products Manufacturing at Common Facility Service Centre, Payyanad, Manjeri from 28/01/2021 to 30/01/2021. Mr. Hashim and Ayshath Jumana Asmin K.T (Asst. Professors, Dept of Chemistry) were accompanied with the students.

First year BSc Chemistry students were visited Centre for Water Resources Development and Management (CWRDM), Calicut on 24/03/2021. This visit helped the students to get a scientific exposure.

Memorandum of Understanding (MoU)

The Department of Chemistry signed MoU with Common Facility Service Centre, Manjeri for the purpose of fulfilling the need of the laboratory facilities, training and sharing of resources for the students.

Department Alumni

Five UG and three PG batches were passed out. A batch wise alumni meet were conducted through online platform from 13/09/2020 to 16/09/2020.

Department PTA

Three PTA meetings for third semester UG, Two meetings for second semester UG, and One meeting for first semester UG, first and second year PG were conducted.

Concluding this report, I express my heartfelt gratitude to the management, principal and all members of teaching and non teaching staff, parents and students of chemistry department for active cooperation and assistance. Thank you

Abdul Salam Mattath