

## Annual Report of Chemistry Department for Session 2015-16

### I) **Participation in Inter-collegiate Seminar & Aviskar Competition 2015:-**

Mr. Ganesh Ashok Theng of B.Sc.-III participated in State level Seminar Competition in Subject Chemistry organized by J.B. College of Science, Wardha on 27<sup>th</sup> July 2015

Ms. P. K. Golande and Ms. P. S. Bharad participated in District level intercollegiate Research Festival AVISHKAR-2015 in UG category held at Shri Shivaji Science & Arts College Chikhli on 26 October 2015.

Ms. P. K. Golande and Ms. P. S. Bharad participated in University level intercollegiate Research Festival AVISHKAR-2015 in UG category held at S. G. B. Amravati University Amravati during 30-31 Oct. 2015.

Mr. Mayur Bawaskar of B.Sc.III participated in intercollegiate seminar competition (2015) sponsored by Amravati University Teacher Association (AUCTA) at Department of Chemistry, Dr. R. G. Rathod Arts and Science College, Murtizapur Dist. Akola on 27<sup>th</sup> February 2016. He presented his seminar paper by using power point presentation on LCD projector on the topic UV-visible Spectroscopy.

Ku. Jaya B. Kadhale of B.Sc. II participated in inter-collegiate Seminar competition sponsored by Amravati University Teacher Association (AUCTA) at Department of Chemistry, G.S. College Khamgaon on 20<sup>th</sup> February 2016. He presented his seminar paper by using power point presentation on LCD projector.

### II) **Educational Tour at Parle-G Biscuit Company at MIDC Area – Khamgaon;-**

An educational one day tour on 26 February was organized by our Chemistry Department to visit Parle-G Biscuit Company at MIDC Area-Khamgaon.

### III) **Seminar and Special Projects:**

The students of B.Sc.II were allotted seminars and projects. The special projects such as analysis of soft drinks and vinegar preservatives were given to the students of B.Sc. II. The students analyzed some parameters like  $P^H$ , alkalinity and acidic level to know purity of market products. This activity is helpful to create awareness among the students about contamination (i.e. adulteration) of food, food poisoning and preventives. The obtained results are correlated and coincided with standard value.

The students of B.Sc. III were allotted seminar and projects. The student presented their papers on LCD projector as well as by using black board in V<sup>th</sup> semester of this year. Around 68 students actively participated and presented their topic of seminars. Students also solved the numeric problems, physical chemistry derivation, organic and inorganic reaction mechanism through the group discussion. The students were also given projects to prepare on the concerned topics. The students gave good response to the activity. Such type of activity is consistently in practice in the department. It helps to upgrade subject knowledge of the students.

**IV) Water Testing Analysis:-**

Potable water, floating water, sea water and lake water contamination is a burning problem nowadays. The number of diseases came into being which affect plant, animal and human being. They are caused by mixing of heavy metals, metalloids, industrial influents in the water. The soil of farming area and non farming area, forest area become acidic, alkaline resulting in non-fertility, non-utility. According to protocol of World Health Organization (WHO) for drinking water quality for India is –water should be odorless, colorless, transparent, no suspended particle, neutral in nature at P<sup>H</sup> 7, non soapy nature, free from chemical content, useful mineral content (as per norm), TDS must be 50 ppm to 150 ppm in average and 1 to 1.5 us electrical conductivity.

Our department has taken initiative to check the quality of water by measuring actually and precisely some parameters i.e. TDS, electrical conductivity by ELICO-TDS analyzer, P<sup>H</sup> by p<sup>H</sup> –meter acidity –alkalinity, colorless and odorless property by chemical method. Prof. Dongare G. M. HOD of chemistry department has taken effort for success of this activity.

**V) Participation and Guidance for General Aptitude Test Exam-2015 –**

10 Students of B.Sc.-III were participated in Graduate Aptitude Test (GAT-2015) organized by AUCTA, Amravati in our Department.