

## Annual Report of Chemistry Department in Session 2016-17

### I) **Participation in State level Inter-collegiate Poster Competition 2015:-**

Ms. M. U. Shelke, B.Sc. II year participated in the state level power point presentation competition organized by Shri Vyankatsh Arts, Commerce and Science College, Deulgaon Raja 20<sup>th</sup> Feb. 2017.

### II) **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.

### III) **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  $P^H$  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 –**

35 Students of B.Sc.-III were participated in Graduate Aptitude Test (GAT-2017) organized by AUCTA, Amravati in our Department

General aptitude test is a useful activity yearly taken in the month of april for the practice and success in entrance in admission of P.G. and higher learnings in top rank university like pune university of india as well as in abroad. Such type of activity conducted by chemistry department in association with Amravati university chemistry teacher association (AUCTA). Under the able guidance of Prof. G. M. Dongare HOD, the faculty Prof. Kumbhare S.L. & Prof. Pawar M.A. had given special coaching with study material to the students throughout the year. Such type of activity is being continuous and it will be here after.