

Department of Chemistry

Annual Report (2014-15)

I) Participation in intercollegiate Seminar and Chem-Quiz Competition 2015

- i) B.Sc. III- Shri Ganesh Ashok Theng studying in B.Sc. III participated of Shiksha Mandal Wardha and Science day celebration (2015) at Jankidevi Bajaj of Science, Wardha on 27th February 2015. He presented his seminar on LCD projector using power point presentation method by using a modern technique of teaching and learning process.
- ii) B.Sc.II – Shri Mayur Bawaskar studying in B.Sc. II participated in Intercollegiate Seminar Competition (2015) sponsored by Amravati University Chemistry Teacher Association (AUCTA) at Department of Chemistry, Mungsaji Maharaj College, Darwha on 7th February 2015. He presented his seminar on Crystalline State on LCD projector using power point presentation method a modern technique of teaching and learning process.
- iii) B.Sc.-I Shri S. M. Ingole & Shri P.G. Kute studying in B.Sc. I actively participated in Chem-Quiz competition sponsored by Amravati University Teacher Association (AUCTA) at Department of Chemistry, Shri Shivaji Science, Arts and Commerce College, Akola on 28th February 2015.

II) Educational Tour at Ajanta Caves the world's greatest historical monument

The educational tour of one day on 1st march 2015 was organized to visit the world's greatest historical monument the AJANTA Caves recognized by UNESCO. These caves were discovered in AD 1819 and were built up in the earlier 2nd century BC-AD. Most of the paintings in Ajanta are right from 2nd century BC-AD and some of them about the fifth century AD and continued for the next two centuries. The Ajanta Caves reflect Indian artists as example of the finest surviving examples of Indian art, particularly painting which are masterpieces of Buddhist religious art, with figures of the Buddha and depiction of the Jataka tales.

The aim of educational our tour to visit Ajanta Caves to upgrade in archeological, historic, ancient of architectural details with a skilful command of the hammer over the

chisel, with sculpture of highest craftsmanship with the painting of infinite charm. The painting are executed on a ground of mud-plaster in the tempura technique as well as natural paint colorful rock material plant extract and sand material to represent popular life of the ancient times. Lastly our educational tour at Ajanta Caves was successful event of in term of scientific view of this year.

III) Home Assignment, Seminar & Special Project Activity-

The students of B.Sc. I year were given unit test and home assignments.

The Students B.Sc. II year were given unit test, seminar and project. The special projects for B.Sc. II was given to analysis of soft cold drink and vinegar preservatives some parameter like P^H , alkalinity and acidic level to know basic thing of market product. Such type of activity is helpful for awareness from contamination result (i.e. adulteration) of food, food poisoning and preventive. The obtained result correlated and coincide with standard value.

The students of B.Sc III year were given unit tests, seminars and projects. The student of B.Sc. III year presented seminar on LCD projector as well as on black board in Sem.-Vth More than one 68 students actively participated and presented their syllabus topic of seminars along. Students also solve their numeric problem, physical chemistry derivation, organic and inorganic reaction and mechanism with group discussion. The students were also given project, project assignment to prepare by the concerned topic. The student gave good response to the activity. Such type of activity consistently taken for the up liftment in their subject knowledge and it will be here after.

IV) Water Testing Analysis-

Day by day potable water, floating water, sea water, lake water contaminating and are now became burning problem. The number of diseases of raised and rising to plant, animal and human being due to mixing of heavy metals, metalloids, industrial influents in above water of ecosystem. The soil of farming area and non farming area, forest area become lethal, acidic, alkaline and resulting in to non-utility. According to protocol of world Health Organization (WHO) guidelines for drinking water quality for our India water should be odorless, colorless, transparent, no suspended particle, neutral in nature at P^H 7, non soapy nature, free 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 chemistry department has taken initiative to check the quality of water by measuring

actual and precisely of some parameter i.e. TDS, electrical conductivity by ELICO-TDS analyzer, P^H by P^H -Meter acidity –alkalinity, colorless and dourness property by chemical method. Prof. Dongare G. M. HOD of chemistry department had taken effort for success of this activity.

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

26 Students of B.Sc.-III were participated in Graduate Aptitude Test (GAT-2015) 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.