

Government Arts College (Autonomous), Kumbakonam-2

Department of Chemistry

B.Sc., Chemistry

Programme Outcomes

After successful completion of three year degree program in Chemistry a student should be able to;

1. Demonstrate, solve and an understanding of major concepts in all disciplines of chemistry.
2. Solve the problem and also think methodically, independently and draw a logical conclusion.
3. Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of chemical reactions.
4. Create an awareness of the impact of chemistry on the environment, society, and development outside the scientific community.
5. Find out the green route for chemical reaction for sustainable development.
6. To inculcate the scientific temperament in the students and outside the scientific community.
7. The branches of Chemistry such as Organic Chemistry, Inorganic Chemistry, Physical Chemistry and Analytical Chemistry expose the diversified aspects of chemistry where the students experience a broader outlook of the subject.
8. The practical exercises done in the laboratories impart the students the knowledge about various chemical reagents and reactions. Thereby, hone their skills of handling the corrosive, poisonous, explosive and carcinogenic chemicals making themselves employable in any kind of chemical industries.

They are also trained about the adverse effects of the obnoxious chemicals and the first aid treatment.

9. Find out the green route for chemical reaction for sustainable development.

Programme Specific Outcomes

1. Gain the knowledge of Chemistry through theory and practical.
2. To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions.
3. Identify chemical formulae and solve numerical problems.
4. Know structure-activity relationship.
5. Understand good laboratory practices and safety.
6. Develop research oriented skills.
7. Students will learn to estimate inorganic salt mixtures and organic compounds both qualitatively and quantitatively using the classical methods of analysis in practical classes.
8. Students will learn to synthesize the chemical compounds by maneuvering the addition of reagents under optimum reaction conditions.