

Government Arts College (Autonomous), Kumbakonam-2

Department of Chemistry

M.Sc., Chemistry

Programme Outcomes

After successful completion of two year degree program in chemistry a student should be able to:

1. Having a clear understanding of the subject related concepts and of contemporary issues.
2. Determine molecular structure by using UV, IR and NMR.
3. Having problem solving ability- to assess social issues (societal, health, safety, legal and cultural) and engineering problems.
4. Having a clear understanding of professional and ethical responsibility
5. Create awareness and sense of responsibilities towards environment and apply knowledge to solve the issues related to Environmental pollution.
6. Apply knowledge to build up small scale industry for developing endogenous product.
7. Apply various aspects of chemistry in natural products isolations, pharmaceuticals, dyes, textiles, polymers, petroleum products, forensic etc. and also to develop interdisciplinary approach of the subject.

Programme Specific Outcomes

1. Apply advanced concepts of organic, analytical, physical and inorganic chemistry to solve complex problems to improve human life.
2. Design experiments, analyze, synthesize and interpret data to provide solutions to different industrial problems by working in the pure, inter and multi-disciplinary areas of chemical sciences.

3. Able to independently carry out research / investigation to solve practical problems and write / present a substantial technical report/document
4. Collaborate effectively on team-oriented projects in the field of Chemistry or other related fields
5. Inculcate logical thinking to address a problem and become result oriented with a positive attitude.
6. Apply the knowledge to develop the sustainable and eco-friendly technology in Industrial Chemistry.