

## **Department of Chemistry**

### **UG PROGRAMME -B.Sc. Chemistry**

- Understand the fundamental principles and concepts of organic, inorganic, physical and analytical chemistry
- Able to handle the chemicals with the safety measures through their theoretical knowledge on properties of organic and inorganic chemicals.
- Ability to apply chemical principles to formulate and analyze a wide range of analytical and synthetic chemical problems.
- Learn standard laboratory methods involved in synthetic, analytical and instrumental work.
- Boost the knowledge on industrial processes like paper and pulp technology, sugar technology, drug chemistry, polymer chemistry to enhance the opportunity on employability

### **PG PROGRAMME -M.Sc. Chemistry**

- Students are supposed to have an advanced depth and detailed functional knowledge of theoretical concepts and experimental methods of chemistry.
- Broaden their professional foundations through activities such as teaching, internships, and fellowships.
- Capable to conduct analysis and interpretation of experimental data
- Able to communicate scientific results in writing and in oral presentation.
- Achieve the basic tools needed to carry out independent chemical research.
- Proficient in specialized area of chemistry and successfully complete an advanced research project.
- Proficient to conduct risk assessments concerning the use of chemical substances and laboratory procedures.
- Self awareness, to interact with other people in team working, and to work independently.
- Ability to work in a chemical, analytical and other related field.
- Gain knowledge of specific skills in planning and conducting advanced chemical experiments and applying structural-chemical characterization techniques.
- Enable the students to be well prepared for the CSIR/UGC-JRF, NET, GATE, SET, TRB examinations.