

## **PROGRAMME: B.Sc. CHEMISTRY**

### **PROGRAMME OUTCOMES**

**PO-1:** B.Sc. Chemistry curriculum is so designed to provide the students a comprehensive understanding about the fundamentals of chemistry covering all the principles and perspectives.

**PO-2:** 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.

**PO-3:** The syllabi of the B.Sc. Chemistry course are discretely classified to give stepwise advancement of the subject knowledge right through the three years of the term.

**PO-4:** 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.

### **PROGRAMME SPECIFIC OUTCOMES**

**PSO-1:** The students will understand the existence of matter in the universe as solids, liquids, and gases which are composed of molecules, atoms and sub atomic particles.

**PSO-2:** Students will learn to estimate inorganic salt mixtures and organic compounds both qualitatively and quantitatively using the classical methods of analysis in practical classes.

**PSO-3:** Students will grasp the mechanisms of different types of reactions both organic and inorganic and will try to predict the products of unknown reactions.

**PSO-4:** Students will learn to synthesize the chemical compounds by maneuvering the addition of reagents under optimum reaction conditions.

## **PROGRAMME: B.Sc. -COMPUTER SCIENCE**

### **PROGRAMME OUTCOMES**

**PO-1** : A degree in B.Sc.(Computer Science) puts a good platform for fundamentals of Computer Science.

**PO-2** : A degree in B.Sc.(Computer Science), becomes a stepping stone student's professional career.

**PO-3** : Computer Science having a dynamic subject, demand frequent updation of syllabi and sync the student with need of industry.

**PO-4**: An ability to apply knowledge of computing and mathematics appropriate to the program's student outcomes and to the discipline.

**PO-5**: An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.

**PO-6**: An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.

**PO-7**: An understanding of professional, ethical, legal, security and social issues and responsibilities.

### **PROGRAM SPECIFIC OUTCOMES**

**PSO-1**: All theoretical concepts are implemented in practical which make a student industry ready.

**PSO-2**: Content of the course prepare a student for self-entrepreneurship.

**PSO-3**: The syllabi of the course is a good platform for higher level course in computer science.

**PSO-4**: The course is designed to support automation and digitization in all walks of life.

**PSO-5**: Ability to apply the knowledge gained during the course of the program from Mathematics, Basic Computing, Basic Sciences and Social Sciences in general and all computer science courses in particular

**PSO-6**: To identify, formulate and solve real life complex engineering problems faced in industries and/or during research work with due consideration for the public health and safety, in the context of cultural, societal, and environmental situations.

**PSO-7**: Ability to provide socially acceptable technical solutions to complex computer science engineering problems with the application of modern and appropriate techniques for sustainable development relevant to professional engineering practice.

## **PROGRAMME: B.Sc. INFORMATION TECHNOLOGY**

### **PROGRAMME OUTCOME**

**PO-1:** Apply the knowledge of Technology, Mathematics, Networks and computing in the core information technologies.

**PO-2:** Identify, design, and analyze complex computer systems and implement and interpret the results from those systems.

**PO-3:** Analyze the local and global impact of computing on individuals, organizations, and society

### **PROGRAMME SPECIFIC OUTCOME**

**PSO-1:** Understand, analyze and develop computer programs in the areas related to web design, desktop applications, mobile applications and networking for efficient design of computer based systems of varying complexity.

**PSO-2:** Apply standard Software Engineering and Software Project Management practices and strategies in software project development using open-source programming environment to deliver a quality product for business success.

**PSO-3:** Be acquainted with the contemporary issues, latest trends in technological development and thereby innovate new ideas and solutions to existing problems.

## **PROGRAMME: M.Sc. ORGANIC CHEMISTRY**

### **PROGRAMME OUTCOMES**

**PO-1:** M.Sc. Organic Chemistry Course is so designed to provide the students a comprehensive understanding about the fundamentals of chemistry covering all the principles and perspectives.

**PO-2:** The branches of Chemistry such as Organic Chemistry, Inorganic Chemistry, Physical Chemistry and Analytical Chemistry expose the diversified aspects of chemistry in Part-I of the Course. Part-II of the Course includes the topics related to organic chemistry where the students experience a broader outlook of the subject.

**PO-3:** The syllabi of the M.Sc. Organic Chemistry course are discretely classified to give stepwise advancement of the subject knowledge right through the three years of the term.

**PO-4:** The practical exercises done in the laboratories impart the students the knowledge about various chemical reagents and reactions. Thereby, the 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. Students are also imparted knowledge about separation of organic mixtures, Characterization of organic compounds by chemical tests and spectral analysis, preparation of organic compounds and purification by advanced methods.

**PO-5:** Students have a project work where they perform the research work. Understanding and learning various technical, analytical and safety aspects of the concerned topic related work.

**PO-6:** Through Industrial visit, students learn the difference between conventional department laboratory and its nature of work and R & D laboratory of industry. Students prepare a dissertation report with complete follow up of research methodology.

### **PROGRAMME SPECIFIC OUTCOMES**

**PSO-1:** Global level research opportunities to pursue Ph.D. Programme targeted approach of CSIR – NET examination.

**PSO-2:** Enormous job opportunities at all level of chemical, pharmaceutical, food products life oriented material industries

**PSO-3:** Specific placements in R & D and synthetic division of polymer industries & Allied Division

**PSO-4:** Discipline specific competitive exams conducted by service commission