

St. Joseph Vaz College, Cortalim-Goa.

Faculty: Science

Department: Chemistry

Programme Outcomes (PO's)

PO1 Critical Thinking: Acquire knowledge of theoretical and practical aspects; enhance innovative ideas in science and technology, develop and investigate throughout their learning from different perspectives.

PO2 Effective Communication: Able to understand, converse, and direct the scientific knowledge gained.

PO3 Social Interaction: Able to analyze the different aspects and interpret the data by following the scientific methods and hence solve the different problems in the society at large.

PO4 Effective Citizenship: Helps in understanding different areas of science such as Chemistry, Botany, Physics and Mathematics as this course forms the basis of science and develops the method of understanding and selflessness.

PO5 Ethics: As a result of gaining scientific knowledge they recognize different value systems and moral dimensions of the decisions taken and accept the responsibilities.

PO6 Environment and Sustainability: Understand the issues of environmental perspective and discover ways for sustainable development.

PO7 Self directed and Life-long Learning: In the process, students acquire skills, design, apply and utilize the technology in day to day life.

Programme Specific Outcomes (PSO's)

PSO1 Students will be able to acquire core knowledge in the key areas of Chemistry, develop written & oral communication skills in communicating chemistry-related topics.

PSO2 Design & conduct experiments, demonstrate their understanding of the scientific methods & processes.

PSO3 Develop proficiency in acquiring data using a variety of instruments, analyse & interpret the data, learn applications of numerical techniques.

PSO4 Realize & develop an understanding of the impact of Chemistry on society.

Course Name: Fundamentals of Chemistry

Course Code: CHC 100

Class: First Year B.Sc.

THEORY: The students will be able to

CO1 Identify the properties of liquids and gases.

CO2 Explain the applications of liquid and gas.

CO3 Elucidate the atomic structure based on Quantum Theory.

CO4 Identify the use of curved arrow notations inorganic reaction mechanisms.

CO5 Understand various methods of preparation and reactions of alkanes, alkenes and alkynes.

PRACTICAL: The students will be able to

CO1 To acquire the knowledge and skill of basic volumetric and gravimetric estimations.

CO2 The students will be able to get hands-on experience on the purification techniques for organic compounds.

CO3 The students will be able to get hands on experience on the identification of chemical nature of organic compounds.