Programme Outcomes & Programme Specific Outcomes for Chemistry

(CBCS-2018 Syllabus)

Surendranath College
24/2 M. G Road, Kolkata-700009
West Bengal, India

Programme Outcomes (PO)	**PO-1.** Demonstrate, solve and an understanding of major concepts in all disciplines of chemistry.
	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. Solve the problem and also think methodically, independently and draw a logical conclusion.
	PO-4. Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of chemical reactions.
	PO-5. Create an awareness of the impact of chemistry on the environment, society, and development outside the scientific community.
	PO-6. Find out the green route for chemical reaction for sustainable development.
	PO-7. To inculcate the scientific temperament in the students and outside the scientific community.
	PO-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.
Programme Specific Outcomes (PSO)	
	PSO-1. Gain knowledge about the fundamentals and applications of chemical and scientific theories
	PSO-2. Will become familiar with the different branches of chemistry like analytical, organic, inorganic, physical, environmental, polymer and biochemistry
	PSO-3. To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions.
	PSO-4. Identify chemical formulae and solve numerical problems.
	PSO-5. 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-6. 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-7. Develops analytical skills and problem-solving skills requiring application of chemical principles.
	PSO-8. Use modern chemical tools, Models, Chem-draw, Charts and Equipments
	PSO-9. Know structure-activity relationship.
	PSO-10. Understand good laboratory practices and safety.