

**DEPARTMENT OF CHEMISTRY**  
**AKPC MAHAVIDYALAYA, BENGAL, HOOGHLY.**  
**B.Sc. HONOURS UNDER CBCS SYSTEM**  
**PROGRAM OUTCOME (ORGANIC CHEMISTRY)**

After successfully completing B. Sc. (Hons.) in Chemistry:

- PO1.** Students will acquire basic legal knowledge to understand bonding, physical properties, stereochemistry and reaction mechanism in organic molecules.
- PO2.** Students will get the knowledge on reactions in unsaturated, carbonyl and associated compounds and organometallics.
- PO3.** Students will be capable to study nitrogenous compounds, rearrangement reactions and logical synthesis of organic molecules.
- PO4.** Students will be able to study and analyze organic spectroscopy.
- PO5.** Student gets updated understanding of carbocycles, heterocycles, pericyclic reactions, carbohydrate and biomolecules.
- PO6.** Students will develop their skills to analyze solid binary mixtures; determine boiling points of organic liquid samples; prepare small scale organic compounds; identify pure solid and liquid samples. They will acquire working knowledge of the separation of organic mixture in chromatographic method and also will get the knowledge on analysis of organic compounds by spectroscopy.
- PO7.** Students will realize and develop an understanding of the impact of organic chemistry and science on society.
- PO8.** Students are also expected to develop written and oral communication skills in communicating chemistry-related topics.
- PO9.** Apply conceptual understanding of the organic chemistry to general real-world situations.
- PO10.** Discover organic chemistry concepts in other major disciplines such as mathematics, computer science, engineering, and physics.
- PO11.** After the completion of program, students will be able to have in-depth knowledge of basic concepts in organic chemistry.

**PO12.** Students will be able to apply the laws of chemistry in real life situations to solve the problems.

**PO13.** Student develop attitude of doing research through undertaking small projects.

**PO14.** Student will have set his foundation to pursue higher education in organic chemistry.

**PO15.** After completing the program student will have developed interdisciplinary approach and can pursue higher studies in subjects other than chemistry.

---