

B.SC. HONOURS COURSE- PROGRAMME OUTCOMES (POs)

Muralidhar Girls' College affiliated to University of Calcutta follows the CBCS Programme / Course structure and Curriculum given by the University. Emphasis is given on outcome-oriented system of teaching learning with a learner centric approach. The College implements the curriculum using varied teaching-learning methods along with ICT tools to improve the process. The Academic Sub-committee along with IQAC prepare the Program Outcomes and the different Departments prepare the respective Program Specific Outcomes and Course Outcomes on the basis of the curriculum provided by the University in accordance with the Mission and Vision of the college.

The Program Outcomes (POs) of B.Sc. Honours:

PO1	SCIENTIFIC DISCIPLINARY KNOWLEDGE: Enable the students to develop scientific aptitude and cognitive ability.
PO2	INTEGRATING THEORY & PRACTICE: Enable the students to acquire knowledge & skills to relate theoretical knowledge into practice and problem solving.
PO3	RESEARCH APPTITUDE & DIGITAL LITERACY: Undertake research oriented activities motivated through holistic learning outcomes to comprehend, analyse and evaluate information gathered using ICT tools and progress to higher studies.
PO4	SOCIAL CONCIOUSNESS & CAREER OPPORTUNITY: Provides the students a combination of academic rigour and career preparation with a sense of social responsibility, equality and empowerment.
PO5	LIFE LONG LEARNING: Enable the students to build a strong foundation for independent thinking and lifelong learning in the present scenario.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

After successful completion of 3-Year: 6-Semester Honours Programme in CHEMISTRY a student should be able to achieve the following:

PSO1	Knowledge of Molecular System: Universe is made of molecules and so the chemical compounds. After completing this particular course students will learn the fundamentals of bonding and reactivity of the atoms and molecules.
PSO2	Development Perspectives with emphasis on Reagents, Reaction Mechanism and Synthesis: Chemistry deals with chemicals, reagents and reactions. By gathering knowledge on the properties of specific reagents and their mechanism of reactions students will be able to synthesize new chemical compounds for the benefit of the society.
PSO3	Mathematical and Statistical tools, Instrumentations and their Application in Solving Structures of Unknown Compounds: Students will go through several theories, equations and models to understand the fundamental concepts in chemistry. Students will be able to apply these basic concepts in solving structures.
PSO4	Research Aptitude: Chemistry is an experimental subject. Students will acquire research aptitude and problem solving approach after studying the basic theory and performing regular practicals. DSE B4 paper (Dissertation) in SEM VI is specially designed for this objective.
PSO5	Sustainable Chemistry: With the increase in population and scarcity of natural resources consumption of chemical products are on high. 'Green Chemistry' course in DSE A3 paper in SEM VI implants the seed of 'environment protect awareness' in the minds of young students balancing the current needs and leaving behind resources for our future generations.
PSO6	Higher Education & Employability: There should be no debate that among the various fields of science disciplines Chemistry leads the students in choosing multiple career options. Whether it is the basic academics or is industrial job or in ICT based job in every sector, chemistry has its applications.