



Post Graduate & Research Department of Chemistry



MALABAR
CHRISTIAN
COLLEGE



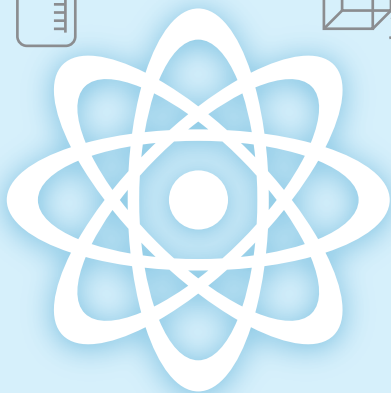
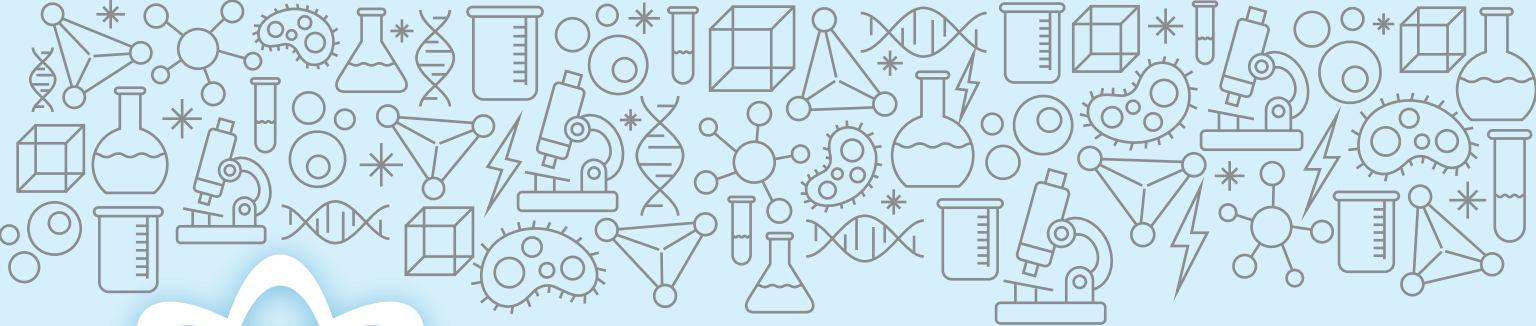


The Department of Chemistry

Established in 1957, the Department of Chemistry at Malabar Christian College (MCC), Kozhikode, has a proud legacy of over seven decades in shaping generations of chemists, educators, and researchers. From its beginnings with pre-degree courses, the department has evolved into a vibrant center for undergraduate, postgraduate, and doctoral studies, remaining deeply rooted in the college's tradition of value-based and holistic education. The department offers a supportive and well-equipped research environment guided by experienced faculty. To ensure holistic student development, the department has implemented several student support and enrichment initiatives.

The department boasts several alumni who have secured prestigious fellowships such as CSIR-JRF, GATE, and INSPIRE, and hold positions in reputed institutions in India and abroad. The Department of Chemistry at MCC continues to uphold its core values of academic integrity, scientific inquiry, and societal commitment—shaping inquisitive minds and responsible citizens ready to contribute to the challenges and opportunities of the 21st century.





PROGRAMMES OFFERED

UG: B.Sc. (Hons) Chemistry – Eligibility: +2 Science group

PG: M.Sc. Chemistry – Eligibility: B.Sc. Chemistry

Ph.D.: As per University norms

Certificate / Add-on Courses: The department offers certificate courses in (1) Food Chemistry - Food Analysis, and (2) Cheminformatics exclusively for current B.Sc. and M.Sc. Chemistry students, enhancing their academic and practical skillsets beyond the regular curriculum.

PROGRAMME INTAKE

UG Intake: 48

PG Intake: 12

Ph.D.: As per norms

MINOR GROUPS OFFERED

1. GENERAL CHEMISTRY AND BIOMOLECULES (Preferable for Zoology, Botany, Microbiology, Biotechnology and Plant science students)
2. BASIC CHEMISTRY AND POLYMER SCIENCE (Preferable for Environmental science and physics students)

MULTI DISCIPLINARY COURSES

1. MULTI-DISCIPLINARY COURSE 1 – ENVIRONMENTAL CHEMISTRY.
2. MULTI-DISCIPLINARY COURSE 2 – CHEMISTRY IN DAILY LIFE

SKILL ENHANCEMENT COURSES

BENEFITS

BSc Chemistry Honours

- Apply chemistry knowledge to various industries including pharmaceuticals, materials science, energy, polymer, and environmental monitoring
- Understand theoretical concepts and applications across major chemistry subfields including inorganic, organic, physical, analytical chemistry, and quantum mechanics.
- Evaluate complex chemical phenomena and real-world problems by applying principles of theoretical chemistry and computational chemistry
- Develop practical skills in handling chemicals safely, preparing solutions, conducting experiments, and analyzing chemical species in the lab.
- Design and execute a project to solve real-world problems following the needs of society and academic research within a stipulated time frame.
- Acquire foundational knowledge of chemistry essential for advanced studies in interdisciplinary fields such as Physics, Mathematics, Botany, Zoology, Geology, and other related disciplines.

MSc Chemistry

- Gain in-depth knowledge of Chemistry and Materials Science via theoretical understanding and hands on experiments.
- Develop time management, planning, organization, and execution skills in laboratory work.
- Provide a broad theoretical and applied foundation in all specialized areas of Chemistry, emphasizing qualitative and quantitative techniques.
- Acquire skills to effectively search scientific databases and journals, extract and utilize the required data
- Demonstrate proficiency in individual or team based experimental investigations using appropriate apparatus and following safe laboratory practices.
- Achieve independent research capability in Chemistry/Materials Science through executing research projects, including in reputed national institutions.

DEPARTMENT HIGHLIGHTS & ACHIEVEMENTS

- A landmark moment in the department's history was the visit of Nobel Laureate Prof. Morten Meldal (2022 Nobel Laureate in chemistry) on 12th February 2024, which further cemented its position in the global academic community.
- The department regularly hosts national seminars, workshops, and awareness programmes
- Academic interactions include visits by eminent scientist such as Prof. K.L. Sebastian, Honorary Professor at IISc Bangalore and Dean (R&D) at IIT Palakkad.
- Prof. Uday Maitra, Honorary Professor and INSA Senior Scientist at the Indian Institute of Science, Bangalore visited the College as part of National seminar on "Recent advances in Chemical Sciences" organized by the Chemistry department.
- The department maintains strong connections with alumni who actively support academic and professional initiatives. The departments alumni actively encourage academic excellence by sponsoring a half-sovereign gold medal for B.Sc. topper, cash awards for M.Sc. topper and several scholarships for deserving students continuously for the last 24 years



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