

Sri Kaliswari College (Autonomous), Sivakasi
Department of Chemistry
M.Sc Chemistry (Semester) - (2018-2020)
Objectives, Outcomes, Regulation

Programme Outcome for Postgraduate programmes

Knowledge

PO 1: Acquisition of advanced knowledge for higher studies and research.

PO 2: Synthesis of knowledge and critical thinking

Skills

PO 1: Life Skills and Skills for contribution to nation building.

PO 2: Acquisition of specialized skills for entrepreneurship/employability.

Attitude

PO 1: Acquisition of professional ethics and human values.

PO 2: National Integration and Social Commitment to Society

Programme Objectives:

- To introduce the basic concept in the advanced chemistry.
- To provide a thorough knowledge in the stereochemistry and structure of the compounds.
- To enhance the modern technological studies and its application in the chemistry
- To understand the basic theory to the advanced theory for interpreting the molecular structure.
- To enrich the advanced concept in the chemistry in the various fields.
- To improve the analytical and technical skill for suitable employability and research activities.

Programme Outcome for Postgraduate programmes

- Developing critical thinking.
- Effective language skills for reporting, designing documents and presentation.
- Progression to research programmes.
- Acquisition of advanced knowledge.
- Acquiring advanced leadership and team working.
- Highly developed oral and written communication.
- Appreciation of professional ethics, integrity, governance and responsibility.
- Qualifying for competitive examinations.

Programme Specific Outcome for M.Sc Chemistry

- Students are supposed to have an advanced depth and detailed functional knowledge of theoretical concepts and experimental methods of chemistry.
- Broaden their professional foundations through activities such as teaching, internships, and fellowships.
- Capable to conduct analysis and interpretation of experimental data
- Able to communicate scientific results in writing and in oral presentation.
- Achieve the basic tools needed to carry out independent chemical research.

- Proficient in specialized area of chemistry and successfully complete an advanced research project.
- Proficient to conduct risk assessments concerning the use of chemical substances and laboratory procedures.
- Self awareness, to interact with other people in team working, and to work independently.
- Ability to work in a chemical, analytical and other related field.
- Gain knowledge of specific skills in planning and conducting advanced chemical experiments and applying structural-chemical characterization techniques.
- Enable the students to be well prepared for the CSIR/UGC-JRF, NET, GATE, SET, TRB examinations.

Regulation:

Duration of the Programme: Two years (Equivalent to four semesters)

Eligibility:

A pass in B.Sc. Chemistry conducted by the colleges with Physics as ancilliary subjects or any other examination accepted by as equivalents thereto are eligible to join this course.

Medium of Instruction: English

Age Limit:

Max age limit : No age limit

Age Relaxation:

SC/ST/OBC/MBC/DNC & Women : 3 years age relaxation

Differently Abled Students : 5 years age relaxation

Transitory Permission:

Students joined from 2018 - 2020 may be permitted to write their examinations in this pattern up to April 2026.