

DEPARTMENT OF CHEMISTRY



Inception: 1963

Programmes Offered

Undergraduate

- B.Sc. Chemistry – Established in 1963

Postgraduate

- M.Sc. Chemistry (Aided) – Established in 1973
- M.Sc. Chemistry (SF) – Established in 2006

Unique Features of the Programme

- Multidisciplinary, applied, and industry-oriented curriculum
- Skill enhancement, ability development, complemented by industrial internships and research projects
- Personalized hands-on exposure to analytical skills
- Create the skilled professionals to embrace demanding roles across diverse chemical industries, research institutions, and academia
- Merit-based scholarships, partnerships through MoUs with industries and research organizations, entrepreneurial assistance and lectures from international faculty

Highlights about the Curriculum

- Encompassing organic, inorganic, and physical chemistry, polymer science, dye chemistry, instrumental methods of analysis, and advanced nano/green chemistry.
- Blending theoretical knowledge with practical skills, and research experiences
- Enriched with analytical and problem-solving capabilities
- Modernized practical courses (skill based) – close to recent/current research
- Imparting both disciplinary and inter/multi-disciplinary research-oriented knowledge to students, fostering a commitment to lifelong learning

Expertise of the Faculty members

- Electrochemistry – Corrosion, Electrochemical Energy Storage & conversion
- Polymer Chemistry, Coordination & Organometallic Chemistry
- Environmental Chemistry
- Organic Chemistry & Natural Product Chemistry
- Nanomaterials & Carbon based nanomaterials,
- Electrochemical & Bio-sensors
- Theoretical & Computational Chemistry

Infrastructure

- Advanced classrooms, libraries and state-of-the-art laboratories
- A well-equipped Central Instrumentation Facility, featuring instruments such as IR, UV-Visible, TGA, AAS, and Electrochemical Workstation

Key Benefits

- Students develop analytical thinking and problem-solving skills which is crucial for success in the dynamic field of scientific research.
- Diverse array of career prospects in various industries like pharmaceuticals, healthcare, environmental science, materials science, and forensic science.

Student Life

- PSGRKCW is the residence to a vibrant and diverse student community, providing a range of clubs to nurture leadership and entrepreneurship skills.



Chemical Society

- To foster enthusiasm for active engagement in chemistry, the department organizes diverse activities through the Chemical Society.
- Comprises invited lectures, seminars, and video conferences featuring experts from industry and academia.
- Workshops and symposia offer valuable insights into current research trends.
- Students acquire practical exposure through field trips in chemical plants, laboratories, and research institutes.

Career Opportunities

The field of chemistry offers diverse opportunities that align with various interests and skill sets.

- Pharmaceuticals
- Chemical
- Environment
- Food
- Polymer
- Paint
- Rubber
- Adhesive
- Materials
- Textile
- Healthcare
- Agrochemicals
- Water
- Biomedical
- Thermal power station
- Steel authority
- Petroleum corporation

Placement & Higher Studies

Graduates pursue advanced studies at prestigious institutions like Salford University, Warsaw University, University of Munster, Ewha Womans University, IIT, IISc, CSIR – CECRI, NIT, IISER, Central University of Tamil Nadu, Pondicherry University, VIT and Shiv Nadar University.

Alumni Success

- **Ms. T. S. Shoba** – Scientist, Vikram Sarabai Space Centre (VSSC) of Indian Space Research Organization, Trivandrum.
- **Mrs. R. Vimala**, IAS.
- **Dr. Mary Sajini Devadas** – Assistant Professor, Towson University, Towson, MD, USA.
- **Dr. Vijila Edwin Kennedy** – Founding Principal of Kumaraguru College of Liberal Arts and Science, Coimbatore.
- **Dr. C. V. Deepa** – Joint Director, Director of Collegiate Education, Chennai.
- **Ms. Sornalatha Ramachandran** – Vice President & Head, Magellan Healthcare, Ohio, USA.
- **Dr. P. N. Sudha** – Principal, DKM College for Women, Vellore.

International study abroad opportunities

Erasmus Mundus Joint Master Degrees (EMJMD), Fulbright scholarships, DAAD scholarships offering opportunity for academic enrichment, cultural exchange, and research collaboration

Testimonials

"I am very thankful to PSGRKCW for providing me the platform to find my ambition. They have helped me to learn the skills that are needed in the current tech world and also guided me and identified my potential to grow and learn faster. The learner –centric environment and conducive infrastructure along with the guidance and support from our faculty members have led me to obtain my successful career pathway. The campus curriculum and lots of competitions have also helped me to increase my knowledge of the tech field and also improved my ability to learn faster. I am very thankful to PSGKCW and its faculty for helping to achieve my dream"

- **Indumathi S**, M. Sc Chemistry (2020–2022)

"My three years' experience at PSGRKCW were great and memory to cherish for life time. It is a place of learning, fun, culture and many such life preaching activities. It gave me an opportunity to meet different kinds of people and learn number of things. I have received great support from my faculty and the placements are also good. This is the place where I got my motivation for higher studies. Apart from studies it is a place to develop our personality."

- **Mathivathani. J. R**, B. Sc Chemistry (2019–2022)

"Being with the department gave a blend of learning with fun, culture and many life preaching activities. The organization of the department is impeccable. The three years has helped me to grow personally and professionally too."

- **Bavya. M**, B. Sc Chemistry (2021 – 2024)

Reach Us at:

PSGR Krishnammal College for Women

Peelamedu, Coimbatore-641 004. Tamil Nadu, India

Phone: +91 422 429 5860/429 5959

Email: principal@psgrkcw.ac.in | www.psgkcw.ac.in

