

NOTABLE ACHIEVEMENTS

- Ms. T. Divya, Ms. A. Divyalakshmi and Ms. B. Shuruthi, Second Year M.Sc. Chemistry Dr. Mohammad Danish and Mrs. S. Krishna, Assistant Professor had participated in Smart India Hackathon (SIH) 2019, Hardware edition Grand Finale 2019 from 8.7.2019 to 12.07.2019 held at KIET Group of Institution, Ghaziabad. India.



- M.Sc students, Ms. T. Divya, B. Shuruthi and A. Dhivyalakshmi, Batch (2018-2020) have published a Book chapter on "Applications of Nano carbon based aerogels in purifying industrial wastewater" (Chapter No 16 and Page No 297-322) in the book titled "Advances in Aerogel Composites for Environmental Remediation", Elsevier Publication along with Dr. Mohammad Danish, Assistant Professor, Chemistry.

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ESTABLISHMENT

The Department of Chemistry established in the year 1988 has been providing inputs both in theoretical and hands-on practical training of chemical reactions to the undergraduate technocrats. The department started under graduate and post graduate programs in Chemistry from the year 2017 and 2018 respectively and carries out research in several areas by offering Ph.D. programmes in the field of crystallography, Heterogeneous Catalysis, photo Catalysis, Nano-Materials and Environmental Chemistry. The academic staff of the department includes six highly qualified and well experienced Assistant Professors, Associate Professor and Technical Assistant. The faculty members are engaged in various research fields and they have been publishing many research articles (128 articles) in the peer reviewed National and International journals.

PROGRAMME OVERVIEW

The graduate and research programs in chemistry provide a platform to acquire a strong foundation in the fundamental concepts of chemistry and its applications to the inter-related fields which is essential to solve the global problems. The learners are able to understand the theoretical principles and practices of modern chemistry and also have hands on experience in the laboratory.

SCOPE OF THE DEPARTMENT

A degree in Chemistry prepares one for work in chemical analysis, forensics, water treatment, food technology, quality management, environmental management, industrial processing, chemical or pharmaceutical manufacturing or agriculture. A chemistry degree also opens up opportunities in medicine, engineering, energy management, academics and a host of other fields. Studies in Chemistry will help to cultivate the student's analysis skills, develop confidence, general professionalism and work ethics.

INDUSTRIAL SCOPE

- Chemical Industry
- Pharmaceutical Industry
- Petrochemicals
- Power Station –Thermal and Nuclear Power Plant
- Agricultural Industry- Fertilizer and Pesticide
- Dye / Textile / Surfactant Industry
- Food Processing Unit
- Rubber / Plastic / Polymer / Paint Industry
- Cosmetics / Flavor and Fragrance Industry

ACADEMICS

- Lab assistant / Lab technician
- Teacher / Assistant Professor

RESEARCH AND DEVELOPMENT

- Scientist / Post-doctoral Fellow
- Research Associate /Senior Research Fellow / Junior Research Fellow/ Project Assistant
- Reviewer/Editor in International and National scientific journals

- Patent counsel in chemical industry

RESEARCH LABORATORY

- Manufacture, Product Development & Quality Control
- Chemical Safety Management
- Environmental Monitoring and Control
- Production Plant Design
- Chemistry related Software designing / Cheminformatics / Bioinformatics / Scientific Instrumentation data analysis software / software for Computational Chemistry.

BEST PRACTICES

- Mentoring the students to write research proposal, research articles, review papers and book chapters
- Mentoring the students towards product based mini projects
- Conducting CSIR-NET/SLET coaching classes for PG students
- Mentoring students to participate in MOOC online courses

