

REPORT ON INDUSTRIAL VISIT TO CSIR-INDIAN INSTITUTE OF CHEMICAL TECHNOLOGY (IICT), HYDERABAD

The School of Pharmacy, Nalla Narasimha Reddy Education Society's Group of Institutions (NNRG), organized an educational visit to the **CSIR-Indian Institute of Chemical Technology (IICT), Hyderabad**, for **III Year B.Pharmacy students** on **12th November 2025**. The visit was arranged to provide students with practical exposure to advanced research facilities, analytical instrumentation, and scientific innovations in the fields of pharmaceutical sciences, chemistry, and biotechnology.

Accompanying Faculty

The students were accompanied by:

- **Dr. T. Madhuri**
- **Mrs. V. Kalyani**

Faculty Members, School of Pharmacy, NNRG

Objectives of the Visit

The major objectives of the visit were:

- To expose students to advanced scientific research and development activities.
- To familiarize students with sophisticated analytical instruments and laboratory techniques.
- To understand the role of CSIR-IICT in pharmaceutical and chemical research.
- To bridge the gap between theoretical learning and practical applications.
- To encourage students towards research, innovation, and higher studies.

Visit Proceedings

The students were warmly welcomed by the scientists and technical staff of CSIR-IICT. An introductory session was conducted highlighting the history, achievements, and significant contributions of the institute towards chemical, pharmaceutical, and biotechnological research.

The students were taken on a guided tour of various research laboratories and facilities within the institute. During the visit, they were introduced to state-of-the-art analytical instruments and research infrastructure used in drug discovery, process development, analytical chemistry, and pharmaceutical research.

The scientists explained the functioning and applications of advanced instruments such as:

- High Performance Liquid Chromatography (HPLC)
- Gas Chromatography (GC)
- UV-Visible Spectrophotometer
- Fourier Transform Infrared Spectroscopy (FTIR)
- Nuclear Magnetic Resonance (NMR)
- Mass Spectrometry (MS)
- Other sophisticated analytical and research equipment

The students gained insights into ongoing research projects related to pharmaceuticals, chemical synthesis, process optimization, natural products, and industrial applications.

The interactive sessions with scientists provided students with valuable information regarding research methodologies, innovation, intellectual property rights, career opportunities in research organizations, and higher education prospects.

Learning Outcomes

The visit enabled students to:

- Understand the role of CSIR-IICT in scientific and pharmaceutical research.
- Gain practical exposure to advanced analytical instruments and techniques.
- Appreciate the importance of research and innovation in drug development.
- Understand industrial and research applications of modern analytical technologies.
- Explore career opportunities in research institutions and pharmaceutical industries.
- Develop interest in higher studies and scientific research.

Conclusion

The educational visit to CSIR-Indian Institute of Chemical Technology (IICT), Hyderabad, provided III Year B.Pharmacy students with an excellent opportunity to experience cutting-edge research facilities and interact with leading scientists. The visit significantly enhanced their understanding of pharmaceutical research, analytical instrumentation, and scientific innovation.

The School of Pharmacy expresses its sincere gratitude to the scientists and staff of CSIR-IICT, Hyderabad, for providing valuable insights and facilitating an enriching learning experience for the students.



CSIR-INDIAN INSTITUTE OF CHEMICAL TECHNOLOGY (IICT), HYDERABAD


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