

# The MSc- Chemistry Advantage



## **Experiential Learning**

Learn faster by doing it. Apply classroom theoretical learnings into practical experimentation and apply the knowledge gained to turn ideas into innovations through industrial trainings and internships.



## **Learn More Than Chemistry**

Gain vital skills in research, critical thinking and writing, and collaborative problem solving, which are essential to success in the career market place today.



## **Develop Technical Knowledge**

The advantages of a Master of Science degree in Chemistry come from its fields of specialization, both in Organic and Analytical Chemistry. Because MSc degrees are founded on the sciences and math, this option is advantageous for those who wish to have a more technical career path.



## **Discover Varied Opportunities**

Chemistry finds application in a variety of fields that include drug and pharmaceutical industries, research laboratories, cancer research institutes, waste management, environment control and food processing.

# School of Science

The School of Science at NUV focuses on disciplinary and a wide range of interdisciplinary courses to broaden students' perspectives and knowledge in Science. The high-quality courses are conducted by qualified teachers, along with guest faculties from the industry, subject experts and independent researchers. The school also collaborates with the industry for research and development on real life projects, making students industry ready.

A robust placement assistance program is in place at NUV that bridges the gap between the student's aspirations and industry expectations. Some of the leading companies in pharmaceuticals and clinical research employ students from School of Science at NUV.

Working in close association with industrial and academic experts, the School offers several unique undergraduate and postgraduate programs in the field of Science, with degrees in BSc, BMS and MSc.

NUV has been recognized as a Postgraduate Capacity Building Cell by the Gujarat Government. As part of this cell, we undertake rigorous year-round training and orientation programs, including capacity building lectures, guest lectures, weekly progress-assessing tests, aptitude tests, mentoring sessions, group discussions and develop a collection of resources towards creation of competitive manpower.

## The MSc-Chemistry Program

**MSc Chemistry program offers two specializations: 1) Organic Chemistry and 2) Analytical Chemistry, designed to enhance and develop the scientific skills demanded by employers in the industry or academia. Students are also encouraged to take advantage of a wide range of electives, including Patent Laws & Patenting, Supramolecules, Nanomaterials, Medicinal Chemistry, Phytochemistry, Forensic Science, Preclinical studies, Clinical studies etc.**

The Chemical Industry accounts for over half the value of Indian companies and hence chemistry is vital to the economy. Take advantage of this need for skilled employees by increasing your knowledge, confidence and expertise in the field through our Chemistry program. Through lectures, hands on laboratory work, presentations and independent dissertation thesis, you will receive training aided with research methodologies and shall also focus on important issues related to Organic Chemistry and Analytical Chemistry, in a sustainable manner.

The MSc in Chemistry course consists of three distinct parts; the first concentrates on specialization course (Organic Chemistry & Analytical Chemistry), the second covers a wide range of chemistry electives, and the final part focuses on the application of specialization in a research project.

The program is designed with an objective to widen students' knowledge as well as prepare graduates with a holistic education approach that includes communication skills, ability to effectively coordinate and contribute as a member of multidisciplinary teams, to appreciate and respect diversity of opinion, and be considerate towards global, societal, environmental and ethical issues.

## **MSC-Chemistry @ NUV Advantage**

**Strong links with Business and Industry to ensure practical education and to respond to emerging industry requirements**

**Interdisciplinary approach for holistic learning**

**One complete year dedicated to research project**

**Visiting faculty from the Industry for relevant exposure and periodic curricular updates in keeping with Industry requirements**

**100% Internship placement in leading Pharmaceutical and Chemical Industries**

## **Pedagogy**



**Well-structured classroom sessions, and close personal interaction with highly qualified faculty members**

**Regular workshops, talks and interactive sessions with industry experts**  
**Experiential learning through hands-on work in state-of-the-art well equipped laboratories**

**Participation in real-life project to receive practical education**

**Programmed self-learning and group learning**

## **Internship & Research Project**

4-6 weeks Summer Internship (End of Semester II) in leading  
Pharmaceuticals, Chemicals, and allied industries

One complete year dedicated to research project.



## **Industry Connect**

Regular live projects, guest lectures, industrial visits and internships expose students to current market and industry functions and needs. This enables students to identify areas of interest, explore possibilities and learn from the industry experts in real-business scenarios.

The NUV Industry Connect provides our graduates a double advantage – firstly, they are more employable and as they have industry experience, they perform better in their first job and therefore, tend to grow faster.

