



# JAI HIND COLLEGE

(Empowered Autonomous)

Basantsing Institute of Science & J. T. Lalvani College of Commerce  
and Sheila Gopal Raheja College of Management.



## Department of Chemistry

### MASTER'S IN SCIENCE (M.Sc.) IN CHEMISTRY



# PROGRAMS

PHYSICAL CHEMISTRY

ORGANIC CHEMISTRY

INORGANIC CHEMISTRY

ANALYTICAL CHEMISTRY



## ABOUT THE PROGRAM

The M.Sc. Chemistry program at Jai Hind College offers a comprehensive, two-year credit-based curriculum focused on Physical, Inorganic, Organic, and Analytical Chemistry. Students gain in-depth theoretical knowledge and hands-on experience, preparing them for careers in research, academia, and industry.



## PROGRAM OBJECTIVES

### **Comprehensive Chemical Expertise and Research Excellence**

Develop advanced knowledge across all major branches of chemistry, along with strong research capabilities, laboratory proficiency, safety practices, and analytical instrumentation skills enabling graduates to conduct innovative, independent research with a focus on sustainability and materials development.

### **Professional Advancement, Innovation, and Leadership**

Foster skills in chemical informatics, entrepreneurship, education, and intellectual property management, while supporting lifelong learning, career readiness, and leadership in both academic and industrial chemical sciences.



# COURSE FEATURES

Active classroom engagement

Continuous Internal Assessment

Credits for Internships

Credits for MOOCs

Support for NET/SET/GATE/PET

Engagement with research projects

Introduction to advanced instrumentation

On-Campus Placements

## EXPERTISE REFINEMENT



Computational Tools



Research Experience

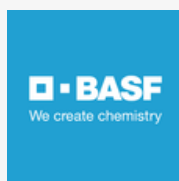


Scientific Writing



Practical and Lab Work

## INTERNSHIPS



# M.Sc. CURRICULUM

## Course Title

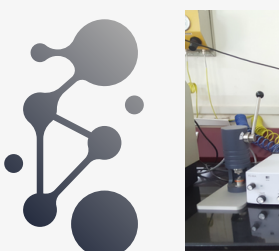
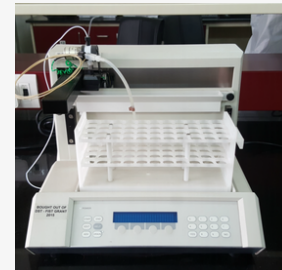
SEM 1	SEM 2
Physical Chemistry-I	Physical Chemistry-II
Physical Chemistry Practical-I	Physical Chemistry Practical-II
Inorganic Chemistry-I	Inorganic Chemistry-II
Inorganic Chemistry Practical-I	Inorganic Chemistry Practical-II
Organic Chemistry-I	Organic Chemistry-II
Organic Chemistry Practical-I	Organic Chemistry Practical-II
MOOC-1	MOOC-2
Elective 1: Spectroscopy and Chromatography	Elective 1: Spectroscopy and Chromatography
Elective 2: Introduction to Nanomaterials	Elective 2: Introduction to Nanomaterials
Elective 3: Electrochemistry and Thermal Methods	Elective 3: Electrochemistry and Thermal Methods
Elective Practical: Analytical Chemistry I	Elective Practical: Analytical Chemistry II
Research Methodology	Internship



# RESEARCH FACILITIES AT CIF

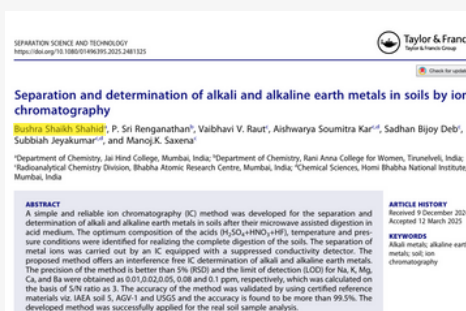
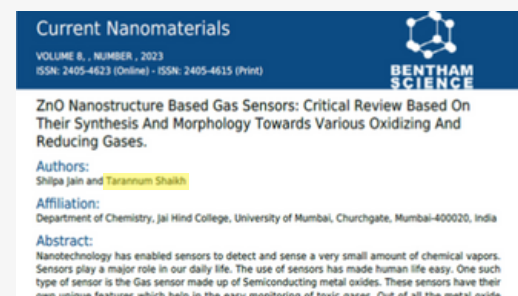
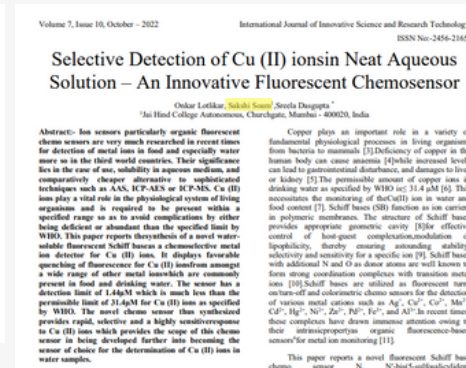
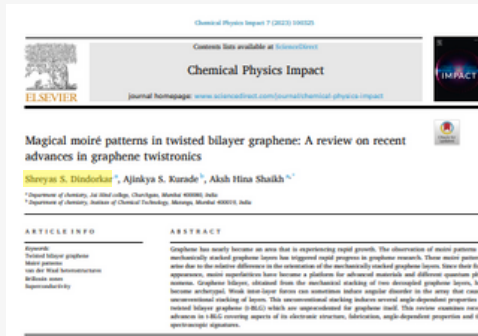
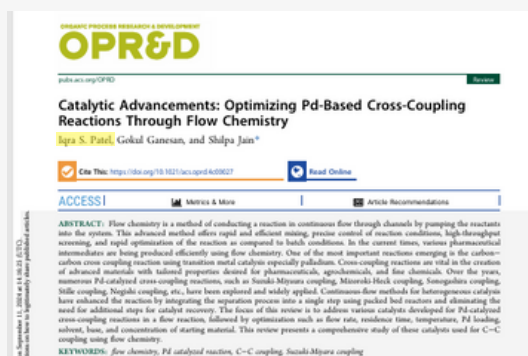


Presence of various advanced instruments at the Central Instrumentation Facility (CIF) enables students and professors alike to contribute greatly to educational, research, and collaborative activities.



## SCHOLARLY CONTRIBUTIONS

### M.Sc. Student Publications in Scopus-Listed Journals





# STUDENT ACHIEVEMENTS

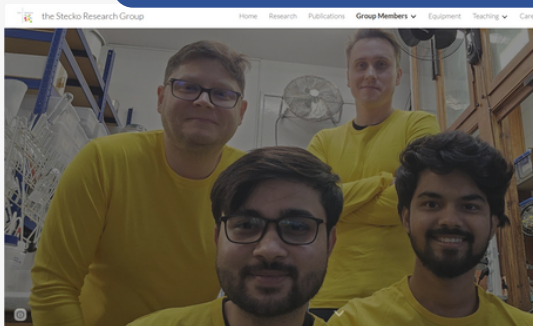


M.Sc. graduates have secured placements in Research, Industry, Academia, and Ph.D. programs.

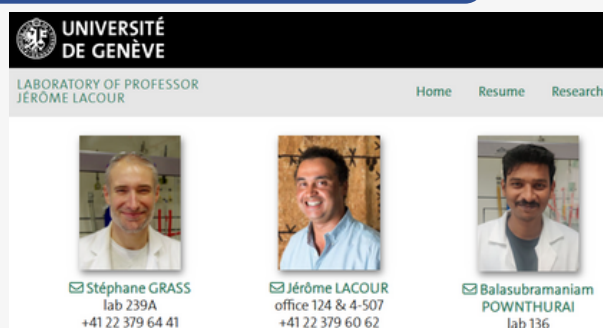
## Placements:

- Anagha Anilkumar secured a position at HP Green R&D Center.
- Aashish Lad joined BTRA, Ghatkopar, Mumbai.
- Sayali Kate became an apprentice at BPCL.
- Monil Shah started his career at Rawji Fine Fragrances Pvt. Ltd.
- Monish Jatakiya began his teaching journey at Sardar Vallabhbhai Patel School, Mira Road.

## Ph.D. Pursuits at Prestigious Institutions:



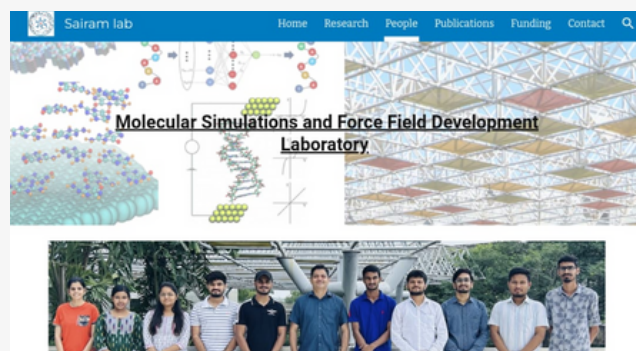
Aniket Chaudhari – Polish Academy of Sciences, Poland



Pownthurai Balasubramaniam – University of Geneva



Atharva Sapre – Czech Academy of Sciences, Prague



Shreyas Dindorkar – IIT Gandhinagar (GATE AIR: 2182)



# Admission Eligibility



The B.Sc. degree examination of this University or any other recognized university with a **minimum of 46 credits** (or its equivalent) in the subject which the student wishes to pursue for the M.Sc. degree course by papers.



**Admissions will be based on merit (Sem 5 & 6 of B.Sc.)**

## Contact Information



Email

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