

Chemistry News (2023-24)



HoD's Desk...

Welcome to the Department of Chemistry, Haldia Government College! We, the Department of Chemistry, feel our intensity to publish our newsletter of the year 2023-24. I, as a head of the department would like to thank all the faculty members, non-teaching staff and our students for their limitless support and sincere efforts for the advancement and improvement of the Department.



Faculty Members:

Dr. Uday Sankar Midya (HoD)
Dr. Dipankar Pramanik
Dr. Khokan Samanta
Dr. Sudipta Pathak
Dr. Saikat Kumar Manna
Dr. Barnali Jana
Dr. Monotosh Mondal
Mr. Saroj Tudu(Lad Attendant)

Mission & Vision

- To promote fundamental of chemistry through UG an PG Courses
- To develop, enhance and improve the quality of human resources.
- To achieve excellence in teaching and independent research.
- To empower through knowledge and information.



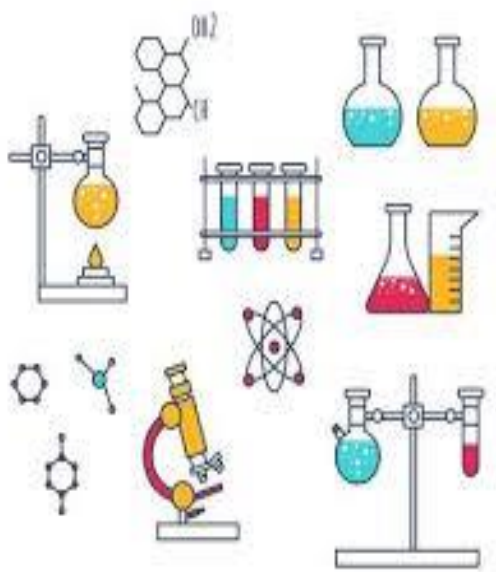
UNVEILING OUR CHEMISTRY DEPARTMENT

>>> A Closer look: Chemistry Department

The Department of Chemistry is the largest academic department at Haldia Government College. There are with seven full-time Assistant Professors. The department offers Regular M.Sc. degree under Vidyasagar University and B.Sc. in Chemistry (Honours) through CBCS mode. All the teachers completed their Ph.D. degree from reputed national institutions/universities and are currently involved in different research activities. The department has several class rooms which are well equipped with ICT technologies. The department has two large wet laboratories, one regular instrumentation laboratory, one dedicated project research lab and another computer cum high end instrument lab, along with several chemical store rooms, reagent preparation rooms etc. The department has its own seminar library, where several text books, reference books and journals are available which can be accessed by students for a long time also. The department organizes different national and in house seminar/conferences where eminent scientists and academic personalities deliver talks to the students and interact with the students on a regular basis.

>>> Departmental Excellence

The departmental students have been successful in grabbing opportunities in higher studies (M.Sc.) in different universities and other national institutes. Every year a good number of students qualify for the entrance examination (JAM) for pursuing M.Sc. in prestigious IITs, National universities like Hyderabad Central University, IISER-Kolkata, IACS-Kolkata, IEST-Shibpur etc. All our faculty members are deeply involved in conducting special coaching classes for these national level entrance examinations. The department has highly qualified faculty members who are actively engaged in R&D work and two of them are already recognised as Ph.D. supervisor. The department has also been involved in continuing educational programmes such as organising seminar and conferences, industry visit etc. The department is well equipped with laboratories and has instruments facilities.



Department of Chemistry, Haldia Government College

RESEARCH CORNER

Latest Research Works Published by our Faculty Members

- ✓ “*Synthesis, structural characterization and magnetic studies of two Cu(II)-azide based one-dimensional polymeric chains derived from reduced Schiff base ligands.*” **Monotosh Mondal** , Júlia Mayans, Albert Escuer, Ashutosh Ghosh *, *Inorganica Chimica Acta* 557 (2023) 121696.
- ✓ “*Crystallographic, theoretical and conductivity studies of two new complexes [Ni(II) and Cu(II)] based on mixed ligands approach*”. Nirvik Ghosh, Mohd Afzal, Dhananjoy Das, Partha Pratim Ray, Samit Pramanik, **Sudipta Pathak** ,* Kinsuk Das, Rosa M. Gomila, Antonio Frontera ,*Subrata Mukhopadhyay, *Journal of Molecular Structure* 1298 (2024) 137106.
- ✓ “*Colorimetric and ratiometric fluorescent chemodosimeter for the detection of hydrazine via the Ing-Manske reaction in solution as well as in the gaseous state: An experimental and computational investigation.*” **Saikat Kumar Manna**,*Debajyoti Kuilya, Monotosh Mondal, Debasish Mandal, Arnab Rout, Samit Pramanik, Sanchita Mondal ,* Subrata Mukhopadhyay. *Journal of Molecular Structure* 1302 (2024) 137476.
- ✓ “*Advances in Catalytic Asymmetric Construction of Quaternary Stereogenic Centers by Conjugate Addition to β,β -Disubstituted Nitroalkenes.*” Sushovan Paladhi, Jin Hyun Park, **Barnali Jana**, Han Yong Bae, and Choong Eui Song,* *Advanced Synthesis and Catalysis*, 365, (2023) 2789-2817
- ✓ “*Recent Advancement on the Organocatalyzed Asymmetric Conjugate Addition using Maleimide as a Potential Substrate.*” **Barnali Jana**, Monotosh Mondal, Shibashis Halder, Atanu Mahata, Sameer Saurav, and Sushovan Paladhi* *Asian Journal of Organic Chemistry Review*, 12 (2023), e202300387.
- ✓ “*Near Infrared Fluorescent Turn-on probe for hydrazine detection: environmental samples and live cell imaging*” Anwasha Maiti, Dipanjan Banik, Satyajit Halder, **Saikat Kumar Manna**, Anirban Karak, Kuladip Jana and Ajit Kumar Mahapatra. *Org. Biomol. Chem.* 21 (2023) 6046-6056.
- ✓ “*Spirocyclopentene Oxindoles through LiHMDS Based Allylation and Ring Closing Metathesis.*” **Barnali Jana**, Sushovan Paladhi, Anupam Manna, **Monotosh Mondal**, Asrar Ahmad & Soumitra Hazra, *Organic Preparations and Procedures International*, 56 (2024) 221-233

Intercollege Collaboration Program

About 3 students of Shahid Matangini Hazra Government General Degree College for women visited the department for few days on and from 30.05.2023 under student exchange programme between both the institutes and performed/completed their B.Sc.(H) practical alongwith with our own students in the departmental laboratory.



Dr. Uday Sankar Midya and Dr. Barnali Jana are interacting with the students

Department of Chemistry, Haldia Government College

Student Success

Each and every year a certain number of students must qualify for the entrance examination (JAM) for pursuing M.Sc. in prestigious IITs. In this session 2023-24, three (03) of our B.Sc.(H) students have secured their position in JAM and will take admission several IITs.



MR. SUBHANKAR SAMANTA



MR. SUBHADIP MAITY



MS. CHANDRA MONDAL

>> MR. KRISHNAPRASAD BAG



M.Sc. student (Specialization in organic Chemistry) has secured a good rank in National Level Examination, the Graduate Aptitude Test (GATE)

NATIONAL SEMINAR : EXPANDING HORIZON

The Chemistry Department organised a national seminar on "Research methodology in Nanotechnology and Spectroscopy" in collaboration with Mahishadal Raj College, on 21.06.2023. Esteemed Professors and Scientists from various well known university and institutes have enriched the students with their diverse working field experience and knowledge.



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